



July 15, 2024

New Mexico Oil Conservation Division

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

**Re: Remediation Work Plan
PLU 23 Dog Town Draw CVB
Incident Number NAPP2402531559 & NAPP2402633992
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 assessment and delineation activities completed to date and proposes remedial actions to address impacted soil identified at the PLU 23 Dog Town Draw CVB (Site). The purpose of the Site assessment and delineation activities was to determine the presence or absence of impacted soil resulting from two releases of crude oil and vented natural gas at the Site. The following *Work Plan* proposes to excavate accessible impacted soil.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 14, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.21343°, -103.85057°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 14, 2024, a valve froze resulting in the release of 135 barrels (bbls) of crude oil and 261 thousand cubic feet (Mcf) of vented natural gas onto the surface of the well pad and into the adjacent pasture. A vacuum truck was dispatched to the Site to recover free standing fluids, and approximately 101 bbls of released fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email and submitted an Initial C-141 Application (C-141) on January 25, 2024. The release was assigned Incident Number NAPP2402531559.

On January 15, 2024, another valve froze resulting in the release of 35 bbls of crude oil and 68 Mcf of vented natural gas onto the surface of the well pad and into the adjacent pasture. A vacuum truck was dispatched to the Site to recover free standing fluids, and approximately 25 bbls of released fluids were recovered. XTO immediately reported the release to the NMOCD via email and submitted a C-141 on January 26, 2024. The release was assigned Incident Number NAPP2402633992.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. In January 2022, a soil

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boring permitted by New Mexico Office of the State Engineer (C-4575) was completed approximately 0.21 miles southeast of the Site utilizing hollow stem auger method. Soil boring C-4575 was drilled to a depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 1,771 feet south of the Site. There is a seasonal dry wash 1,950 feet north of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On March 5, 2024, Ensolum personnel conducted a Site assessment to evaluate the release extent based on information provided on the C-141, information provided by XTO, and visual observations. The release extent area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Because the releases occurred in the same vicinity around the same time, the release was mapped as a single extent. Six assessment soil samples (SS01 through SS06) were collected at a depth of 0.5 feet bgs outside of the release extent. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. A photographic log of the initial Site assessment is included in Appendix B.

On March 27 and 28, 2024, Ensolum returned to the Site to oversee delineation activities. Nine potholes (PH01 through PH09) were advanced via heavy equipment and shovel to investigate the vertical extent of the releases. The potholes were advanced to depths ranging from 2 feet to 9 feet bgs. Discrete soil samples were collected from each pothole at depths ranging from 0.5 feet to 9 feet bgs. Composite soil sampling of the pasture area was completed (FS01 through FS19). All delineation soil samples were

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field screened by the same methods as stated above. A photographic log of delineation activities is included in Appendix B. Field screening results and observations for all potholes were logged on lithologic/soil sampling logs, which are included as Appendix C. The soil sample locations were mapped utilizing a handheld GPS unit and the delineation soil sample locations are depicted on Figure 2, while the composite soil sample locations are depicted on Figure 3.

On May 9 and 10, 2024, Ensolum returned to the Site to oversee additional delineation activities after receiving the results of the composite soil samples collected from the pasture area. Six boreholes (BH01 through BH06) were advanced by hand auger to investigate the vertical extent of the release in the pasture area. The boreholes were advanced to depths of 4 feet bgs. Discrete soil samples were collected from each borehole at depths ranging from 0.5 feet to 4 feet bgs. All delineation soil samples were field screened by the methods as stated above. The soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. A photographic log of delineation activities is included in Appendix B. Field screening results and observations for all boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples SS01 through SS06 indicated they were in compliance with Closure Criteria and reclamation standards, confirming lateral delineation of the releases.

Laboratory analytical results for delineation soil samples PH01 through PH03, collected at 0.5 feet and 1-foot bgs, indicated the TPH-GRO/TPH-DRO and total TPH concentrations exceeded the Closure Criteria but were in compliance for total TPH at depths ranging from 8 feet to 9 feet bgs. PH03 exceeded Closure Criteria for TPH-GRO/TPH-DRO at the terminal depth of 8.5 feet bgs due to backhoe refusal. Laboratory analytical results for delineation soil sample PH04 indicated the TPH-GRO/TPH-DRO and total TPH concentrations exceeded the Closure Criteria at 0.5 feet bgs but was in compliance at 1-foot and 7 feet bgs. Delineation samples PH05, PH06, and PH08 indicated they were in compliance with Closure Criteria. Laboratory analytical results for delineation samples PH07 and PH09 indicated at 0.5 feet bgs they met Closure Criteria but exceeded reclamation requirements for TPH concentrations.

Laboratory analytical results for the delineation samples BH03 and BH05 at 0.5 feet bgs exceeded reclamation requirements but were in compliance with reclamation requirements by 2 feet bgs. Delineation samples BH01, BH02, BH04, and BH06 were all in compliance with reclamation requirements for depths ranging from 0.5 feet to 4 feet bgs.

The confirmation soil sample laboratory analytical results indicated the total TPH concentrations exceeded reclamation requirements, with the exception of FS10, FS14, and FS17, which are in compliance with reclamation requirements.

Laboratory analytical results for all samples collected indicated chloride concentrations were in compliance with Closure Criteria and reclamation requirements. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included in Appendix D.

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PROPOSED REMEDIATION WORK PLAN

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the releases of crude oil and vented natural gas. Based on laboratory analytical results, TPH-GRO/TPH-DRO and TPH impacted soil exists across an approximate 28,300 square-foot area within the release footprint at depths ranging from 0.5 feet bgs to an exceedance of 8.5 feet bgs. Due to backhoe refusal at 8.5 feet bgs in PH03, vertical definition was not achieved under the Closure Criteria. While the vertical extent of the release is not fully established in the area of PH03, it is established in all other potholes to Site Closure Criteria. The lateral extent of the release is defined through laboratory analytical results of soil samples SS01 through SS06.

XTO proposes to complete the following remediation activities:

- Excavation of petroleum hydrocarbon impacted soil. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria as well as reclamation requirements for the top 4 feet, where applicable. Based on laboratory analytical results from PH01 and PH02 at depths ranging from 8 to 9 feet bgs, Ensolum anticipates the excavation to extend to a depth of at least 8.5 feet bgs in these areas and in doing so, achieve full definition through the collection of floor and sidewall confirmation soil samples. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any active production equipment which may limit access to portions of impacted soil. The proposed excavation extent is depicted on Figure 4.
- Due to the estimated size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes five-point composite samples to be collected at a sampling frequency of 400 square feet along the excavation floor and sidewalls. The proposed sampling frequency would reduce the total amount of samples from approximately 130 samples (200 square feet) to approximately 68 samples. The soil samples will be handled as described above and analyzed for all COCs.
- An estimated 2,000 cubic yards of impacted soil will be excavated. The excavated soil will be transferred to a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing Site conditions and the pasture area will be reseeded with a BLM-approved seed mixture.

XTO believes this *Work Plan* is protective of human health, the environment, and groundwater. As such, XTO requests approval of this *Work Plan* by NMOCD. XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD or within 90 days of when XTO production operations is discharged from the Site, whichever comes first.

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

Sincerely,
Ensolum, LLC



Tracy Hillard
Staff Engineer



Daniel Moir, PG
Senior Managing Geologist

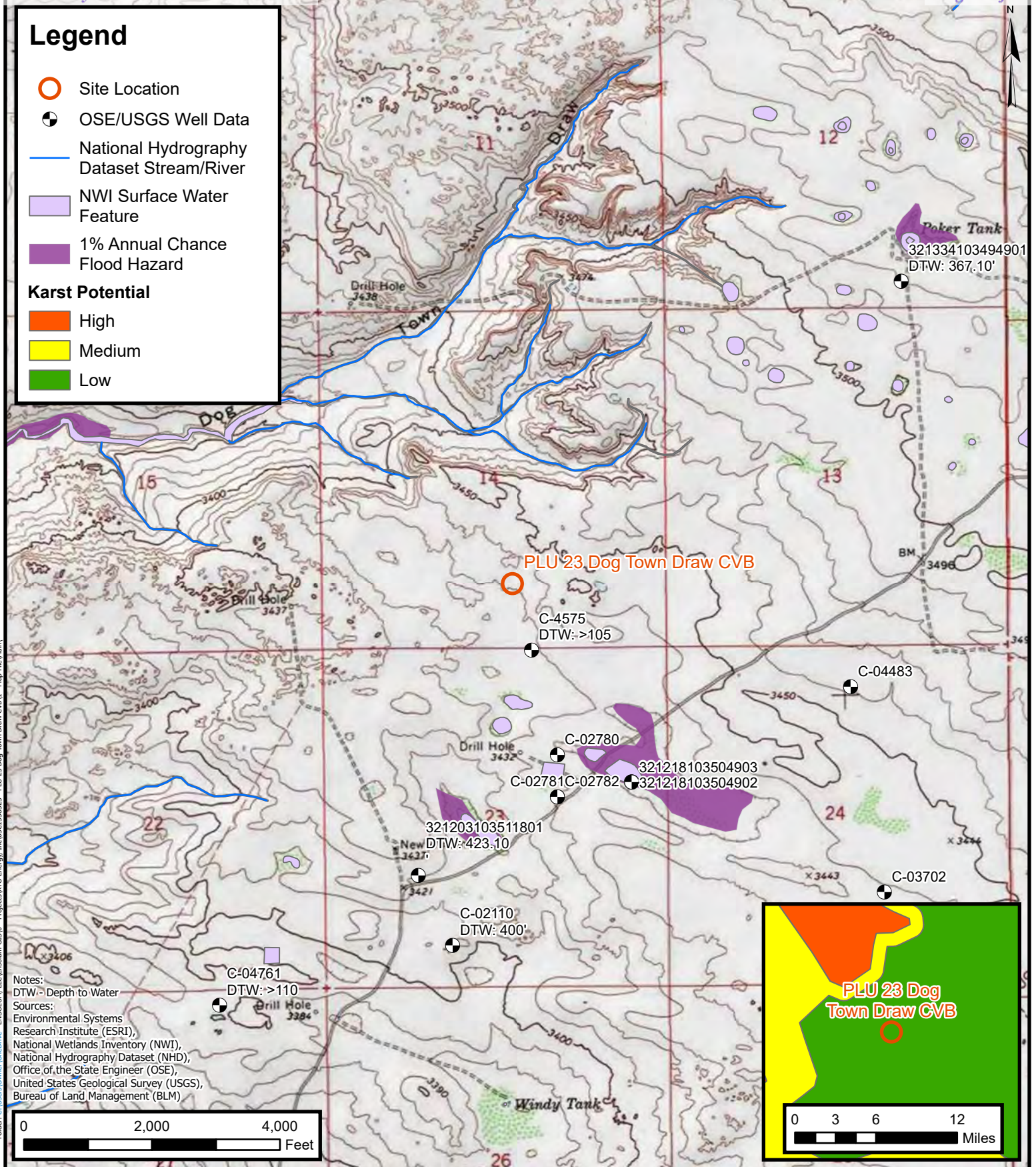
cc: Amy Ruth, XTO
Amanda Garcia, XTO
BLM

Appendices:

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



FIGURES

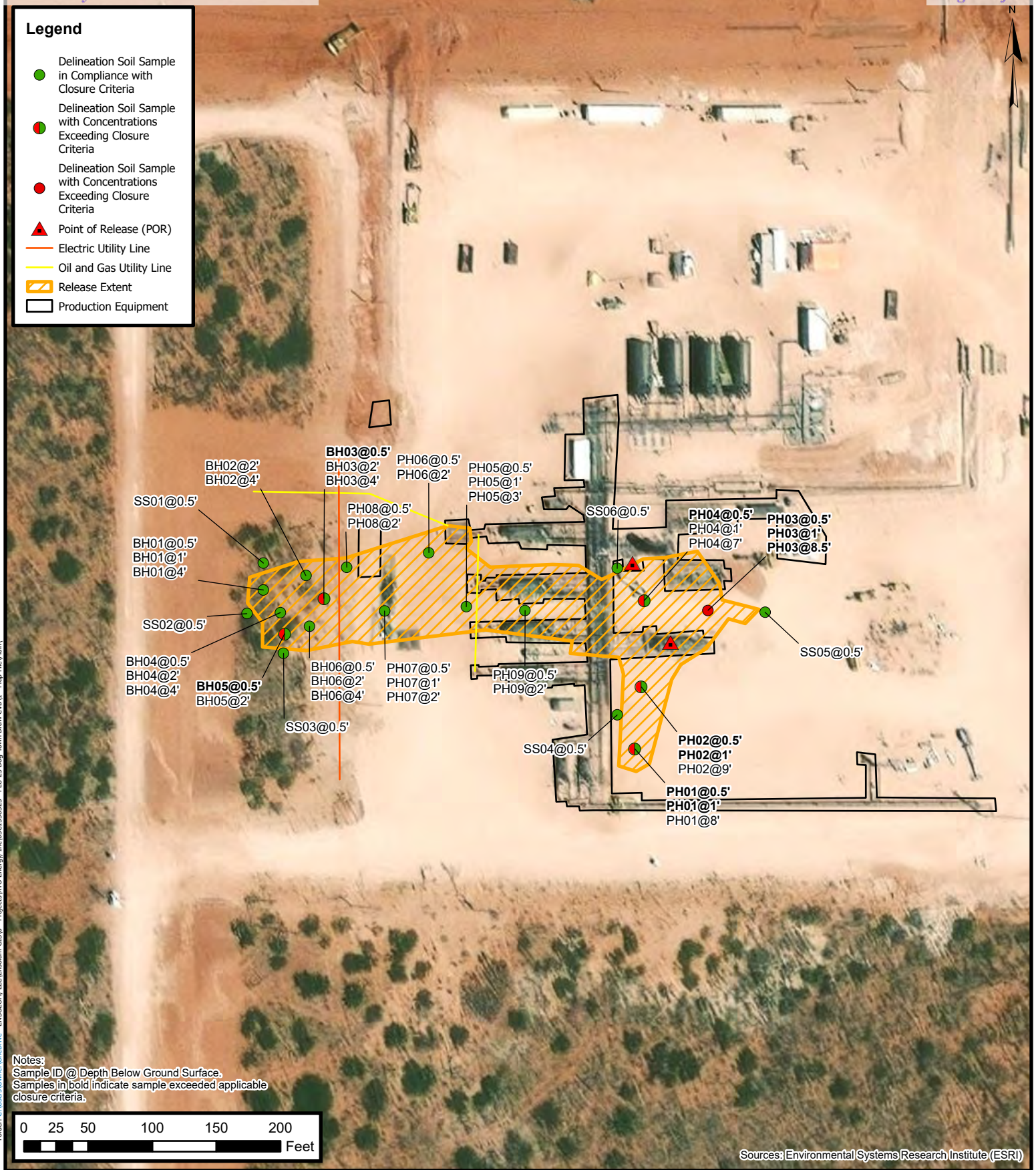


Site Receptor Map

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Unit O, Sec 14, T24S, R30E
Eddy County, NM

FIGURE

1



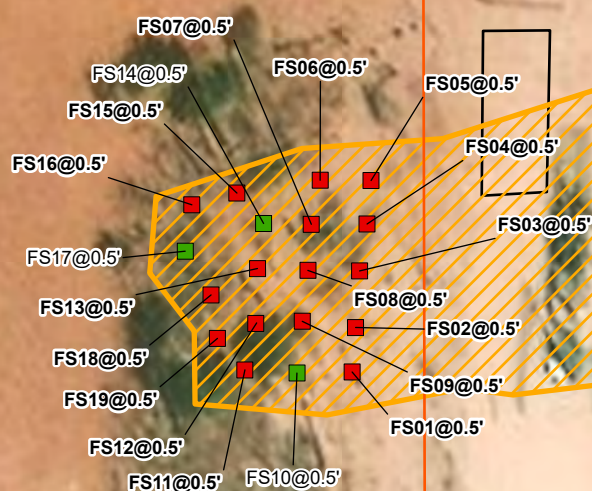
Delineation Soil Sample Locations

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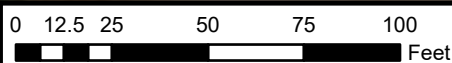
FIGURE
2

Legend

- Composite Sample Location in Compliance with Closure Criteria
- Composite Sample Location with Concentrations Exceeding Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Release Extent
- Production Equipment



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



Sources: Environmental Systems Research Institute (ESRI)

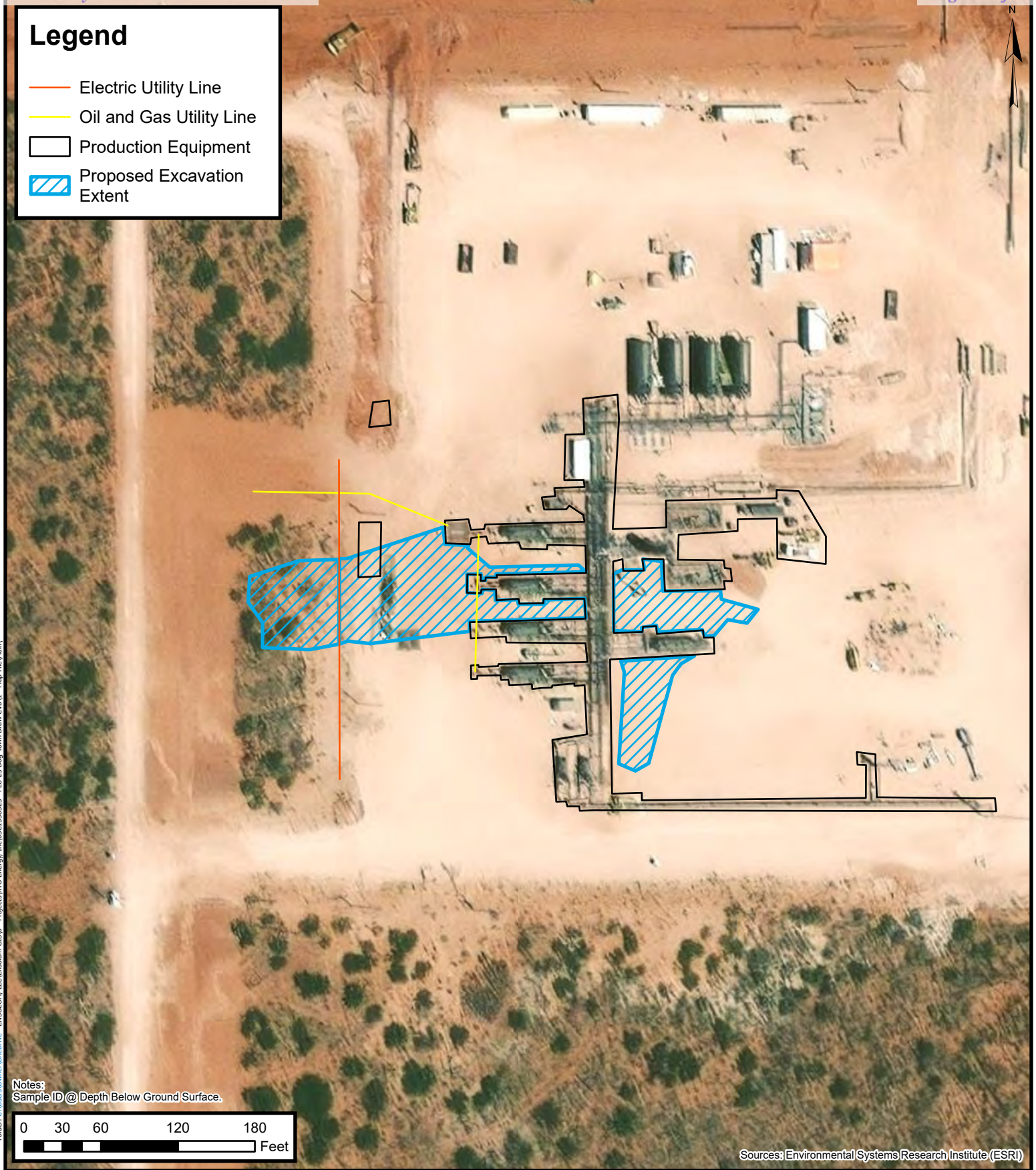
**Composite Soil Sample Locations**

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 Unit O, Sec 14, T24S, R30E
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FIGURE**3**

Legend

- Electric Utility Line
- Oil and Gas Utility Line
- Production Equipment
- Proposed Excavation Extent



Proposed Excavation Extent

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Unit O, Sec 14, T24S, R30E
Eddy County, NM

FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 23 Dog Town Draw CVB
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	03/05/2024	0.5	<0.050	<0.300	<10.0	33.5	<10.0	33.5	33.5	32.0
SS03	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS04	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS05	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS06	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH01	03/27/2024	0.5	<1.00	103	2,610	20,400	2,860	23,000	25,900	80.0
PH01	03/27/2024	1	<5.00	313	6,420	12,100	1,500	18,500	20,000	64.0
PH01	03/27/2024	8	<0.050	<0.300	<10.0	35.3	<10.0	35.3	35.3	16.0
PH02	03/27/2024	0.5	<2.00	148	7,600	30,000	4,430	37,600	42,000	32.0
PH02	03/27/2024	1	7.28	213	5,320	8,200	1,040	13,500	14,600	16.0
PH02	03/27/2024	9	<0.050	<0.300	<10.0	59.5	13.3	59.5	72.8	<16.0
PH03	03/27/2024	0.5	<1.00	111	3,610	30,700	5,000	34,300	39,300	160
PH03	03/27/2024	1	1.92	162	3,420	7,350	930	10,800	11,700	48.0
PH03	03/27/2024	8.5	0.066	8.87	312	1,690	275	2,000	2,280	32.0
PH04	03/27/2024	0.5	<5.00	311	7,980	19,000	2,420	27,000	29,400	48.0
PH04	03/27/2024	1	<0.050	32.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH04	03/27/2024	7	<0.050	0.384	22.2	322	40.0	344	384	16.0
PH05	03/27/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	03/27/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05	03/27/2024	3	<0.050	<0.300	<10.0	17.2	<10.0	17.2	17.2	48.0
PH06	03/27/2024	0.5	<0.050	<0.300	<10.0	41.9	<10.0	41.9	41.9	32.0
PH06	03/27/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH07	03/27/2024	0.5	<0.050	<0.300	36.4	572	67.8	608	676	128
PH07	03/27/2024	1	<0.050	<0.300	<10.0	62.4	<10.0	62.4	62.4	16.0
PH07	03/27/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH08	03/28/2024	0.5	<0.050	<0.300	<10.0	88.9	11.3	88.9	100	32.0
PH08	03/28/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH09	03/28/2024	0.5	<0.050	<0.300	<10.0	649	112	649	761	80.0
PH09	03/28/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH01	05/09/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 23 Dog Town Draw CVB
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
BH01	05/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH01	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02	05/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH02	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03	05/09/2024	0.5	<0.050	<0.300	<10.0	289	34.1	289	323	80.0
BH03	05/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH03	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH04	05/09/2024	0.5	<0.050	<0.300	<10.0	34.1	<10.0	34	34	32.0
BH04	05/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH04	05/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH05	05/10/2024	0.5	<0.050	<0.300	<10.0	148	29.1	148	177	48.0
BH05	05/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH06	05/10/2024	0.5	<0.050	<0.300	<10.0	17.1	<10.0	17.1	17.1	32.0
BH06	05/10/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH06	05/10/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Composite Soil Samples										
FS01	03/27/2024	0.5	<0.050	<0.300	<10.0	345	75.7	345	421	96.0
FS02	03/27/2024	0.5	<0.050	<0.300	<10.0	305	77.2	305	382	64.0
FS03	03/27/2024	0.5	<0.050	<0.300	<10.0	991	237	991	1,230	96.0
FS04	03/27/2024	0.5	<0.050	<0.300	<10.0	962	283	962	1,250	96.0
FS05	03/27/2024	0.5	<0.050	<0.300	<10.0	666	139	666	805	32.0
FS06	03/27/2024	0.5	<0.050	<0.300	<10.0	309	80.5	309	390	48.0
FS07	03/27/2024	0.5	<0.050	<0.300	<10.0	180	56.4	180	236	32.0
FS08	03/27/2024	0.5	<0.050	<0.300	<10.0	418	115	418	533	64.0
FS09	03/27/2024	0.5	<0.050	<0.300	<10.0	207	55.4	207	262	96.0
FS10	03/27/2024	0.5	<0.050	<0.300	<10.0	72.1	12.7	72.1	84.8	32.0
FS11	03/27/2024	0.5	<0.050	<0.300	<10.0	186	55.7	186	242	96.0
FS12	03/27/2024	0.5	<0.050	<0.300	<10.0	387	97.9	387	485	64.0
FS13	03/27/2024	0.5	<0.050	<0.300	<10.0	944	287	944	1,230	122
FS14	03/27/2024	0.5	<0.050	<0.300	<10.0	74.1	<10.0	74.1	74.1	32.0
FS15	03/27/2024	0.5	<0.050	<0.300	<10.0	122	<10.0	122	122	16.0
FS16	03/27/2024	0.5	<0.050	<0.300	<10.0	318	45.5	318	364	32.0



TABLE 1
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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
FS17	03/27/2024	0.5	<0.050	<0.300	<10.0	57.9	<10.0	57.9	57.9	32.0
FS18	03/27/2024	0.5	<0.050	<0.300	<10.0	294	40.2	294	334	64.0
FS19	03/27/2024	0.5	<0.050	<0.300	<10.0	442	60.5	442	503	80.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE OIT JAN 24 2022 PM 3:00

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4575			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 12	SECONDS 38.03 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE 103	50	58.70 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NE Sec. 23 T24S R30E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 1-4-2022		DRILLING ENDED 1-4-2022		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±8.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

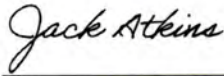
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4575	POD NO. 1	TRN NO. 709414
LOCATION 2-1-1 24S-30E-23	WELL TAG ID NO. —	PAGE 1 OF 2

MON

USE ON JAN 24 2022 03:00

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	1	1	Caliche, White, Dry	Y ✓ N	
	1	20	19	Sand, very fine grained, well graded, with caliche, Reddish Brown-Light Brown	Y N	
	20	30	20	Caliche, consolidated with silt and some gravel, Off-White, Dry	Y ✓ N	
	30	50	20	Sand, very fine grained, well graded, with gravel, Light Brown	Y ✓ N	
	50	75	25	Sand, very fine grained, well graded, with gravel, Reddish Brown, slight moist	Y ✓ N	
	75	105	30	Sand, very fine grained, poorly graded, Reddish Brown, slight moist	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	<p>Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.</p>					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
Shane Eldridge, Cameron Pruitt, Carmelo Trevino						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
					1/21/2022	
SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4573	POD NO. 1	TRN NO. 709414
LOCATION 2-1-1	245-30E-23	WELL TAG ID NO. MON

PAGE 2 OF 2

OSE_Well Record and Log_-forsign

Final Audit Report

2022-01-22

Created:	2022-01-21
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAHFW29aZiQH1D931B0LxyAz3o1wYi88ri

"OSE_Well Record and Log_-forsign" History

 Document created by Lucas Middleton (lucas@atkinseng.com)

2022-01-21 - 10:47:34 PM GMT- IP address: 69.21.248.123


OSE DIT JAN 24 2022 PM3:00

 Document emailed to Jack Atkins (jack@atkinseng.com) for signature

2022-01-21 - 10:48:19 PM GMT

 Email viewed by Jack Atkins (jack@atkinseng.com)

2022-01-21 - 10:49:13 PM GMT- IP address: 64.90.153.232

 Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2022-01-22 - 0:16:23 AM GMT - Time Source: server- IP address: 64.90.153.232

 Agreement completed.

2022-01-22 - 0:16:23 AM GMT



Adobe Sign



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc

PLU 23 Dog Town Draw CVB

nAPP2402531559 & nAPP2402633992



Photograph: 1 Date: 3/5/2024
Description: On pad staining in release footprint.
View: Southeast



Photograph: 2 Date: 3/5/2024
Description: Pasture staining in release footprint
View: Northwest



Photograph: 3 Date: 3/27/2024
Description: Delineation activities at PH03
View: Northwest





Photograph: 4 Date: 5/9/2024
Description: Delineation in pasture
View: Southeast





APPENDIX C


Lithologic Soil Sampling Logs



 ENSOLUM		Sample Name: PH01		Date: 3/27/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.213109, -103.850486			Logged By: TH/US		Method: Trackhoe			
			Hole Diameter: 24"		Total Depth: 8'			
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 with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	465.2	N	PH01	0.5		CCHE	(0-1') CALICHE, white, odor, no staining
Dry	<162	1075	N	PH01	1	1	SP-SM	(1-8') SAND, brown, poorly graded, little silt with odor, no staining
Dry	<162	87.3	N		2	2		
Dry	<162	165.3	N		3	3		
Dry	162	525.2	N		4	4		
Dry	<162	302.6	N		5	5		
Dry	<162	767.8	N		6	6		
Dry	<162	397.3	N		7	7		
Dry	<162	69.1	N	PH01	8	8		(@8') no odor
						Total Depth @ 8 feet bgs		


 ENSOLUM		Sample Name: PH02		Date: 3/27/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.213241, -103.850468			Logged By: TH/US		Method: Trackhoe			
			Hole Diameter: 24"		Total Depth: 9'			
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 with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	1069	N	PH02	0.5		CCHE	(0-1') CALICHE, white, odor, no staining
Dry	<162	1351	N	PH02	1	1	SP-SM	(1-9') SAND, brown, poorly graded, little silt with odor, no staining
Dry	<162	254.4	N		2	2		
Dry	<162	311.7	N		3	3		
Dry	<162	178.6	N		4	4		
Dry	<162	403.7	N		5	5		
-	-	-	-		6	6		
Dry	<162	390.4	N		7	7		
Dry	<162	250.2	N		8	8		
Dry	<162	43.8	N	PH02	9	9		(@9') no odor
						Total Depth @ 9 feet bgs		


 ENSOLUM		Sample Name: PH03		Date: 3/27/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.213404, -103.850298				Logged By: TH/US				
				Method: Trackhoe				
				Hole Diameter: 24"				
				Total Depth: 8.5'				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	523	N	PH03	0.5		CCHE	(0-1') CALICHE, white, odor, no staining
Dry	<162	1532	N	PH03	1	1	SP-SM	(1-8.5') SAND, brown, poorly graded, little silt with odor, no staining
Dry	<162	441.8	N		2	2		
Dry	<162	851.2	N		3	3		
Dry	<162	426.9	N		4	4		
Dry	<162	398.2	N		5	5		
Dry	<162	382.6	N		6	6		
Dry	<162	483.5	N		7	7		
Dry	<162	922.8	N		8	8		
Dry	<162	363.6	N	PH03	8.5	8.5		(@8.5') trackhoe hit refusal
						Total Depth @ 8.5 feet bgs		



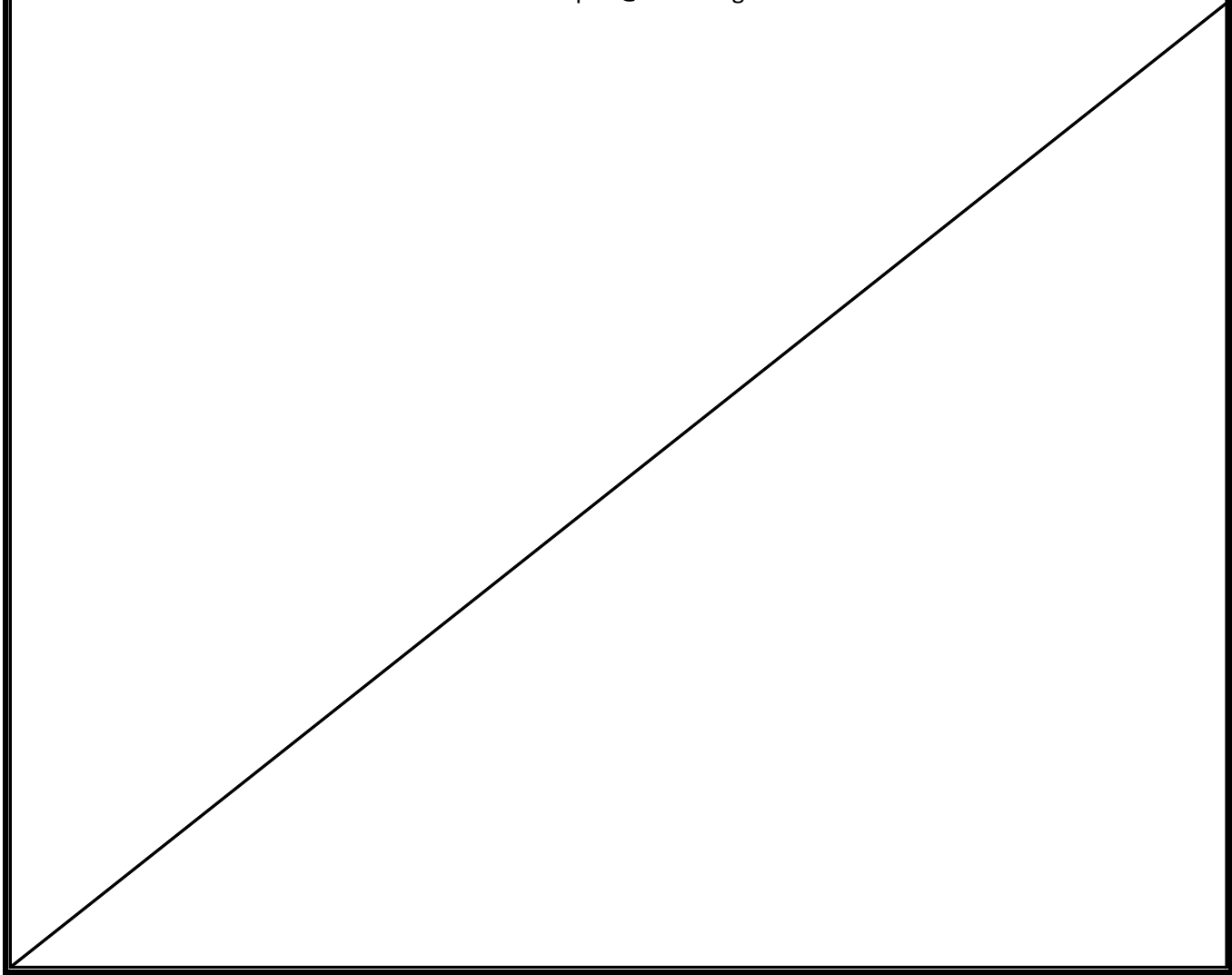
 ENSOLUM								Sample Name: PH04		Date: 3/27/2024	
								PLU 23 Dog Town Draw CVB			
								Incident Number: nAPP2402531559 / nAPP2402633992			
								Job Number: 03C1558323			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: TH/US		Method: Trackhoe	
Coordinates: 32.213427, -103.850459								Hole Diameter: 24"		Total Depth: 7'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	<168	919.8	N	PH04	0.5		CCHE	(0-1') CALICHE, white, odor, no staining			
Dry	<168	68.7	N	PH04	1	1	SP-SM	(1-7') SAND, brown, poorly graded, little silt with odor, no staining			
Dry	<168	335.1	N		2	2					
Dry	<168	330.8	N		3	3					
Dry	<168	330.5	N		4	4					
Dry	<168	236.8	N		5	5					
Dry	<168	101.4	N		6	6					
Dry	<168	86.7	N	PH04	7	7					
Total Depth @ 7 feet bgs											


 ENSOLUM		Sample Name: PH05		Date: 3/27/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.213417, -103.850908			Logged By: TH/US		Method: Trackhoe			
			Hole Diameter: 24"		Total Depth: 3'			
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 with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	8.5	N	PH05	0.5		CCHE	(0-1') CALICHE, white, odor, no staining trace brown sand with silt
Dry	<168	37.2	N	PH05	1	1	SP-SM	(1-3') SAND, brown, poorly graded, some silt little clay, with odor, no staining
Dry	<168	33.7	N		2	2		
Dry	<168	15.4	N	PH05	3	3		(@3') no odor
						Total Depth @ 3 feet bgs		



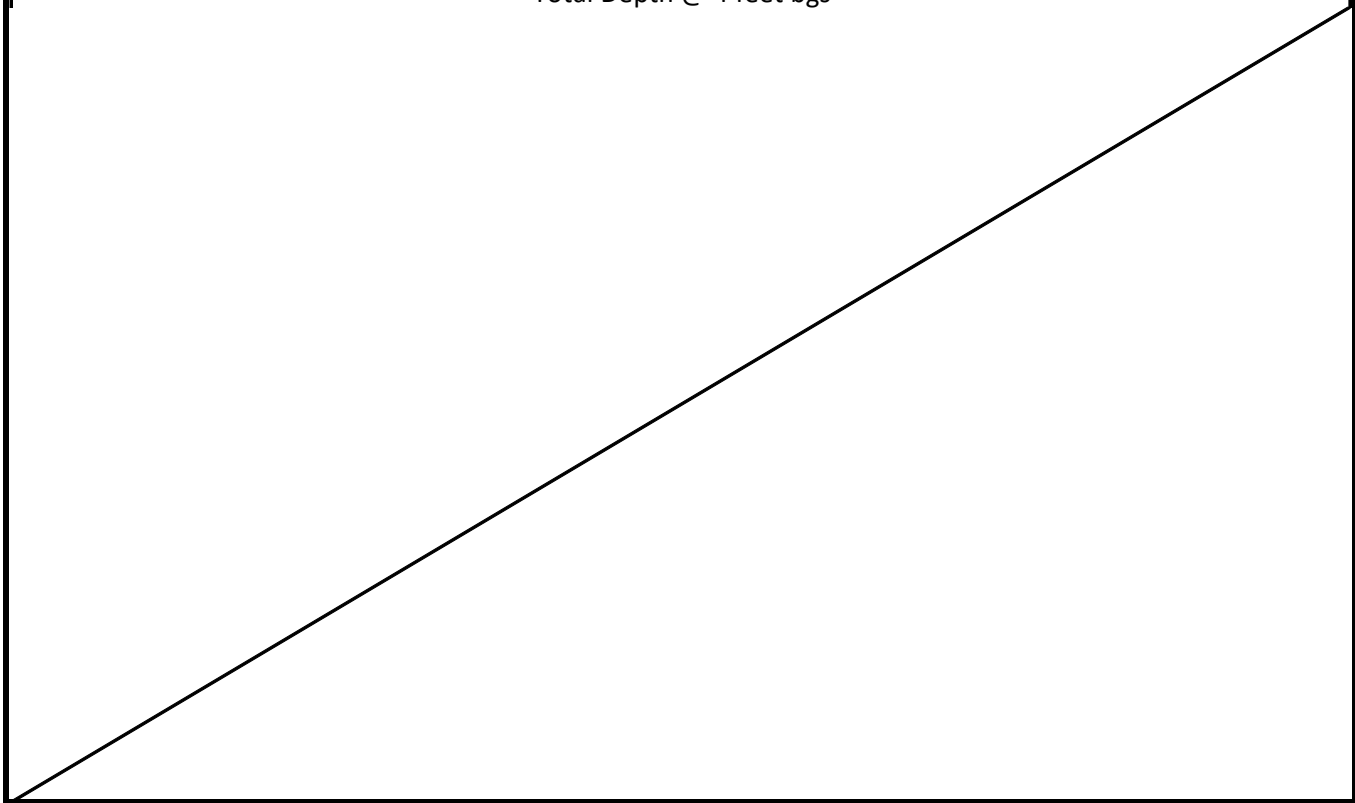
 ENSOLUM		Sample Name: PH06		Date: 3/27/2024					
		PLU 23 Dog Town Draw CVB							
		Incident Number: nAPP2402531559 / nAPP2402633992							
		Job Number: 03C1558323							
LITHOLOGIC / SOIL SAMPLING LOG									
Coordinates: 32.213534, -103.851001			Logged By: TH/US		Method: Trackhoe				
			Hole Diameter: 24"		Total Depth: 2'				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	<168	0.9	N	PH06	0.5		CCHE	(0-1') CALICHE, white, no odor, no staining trace brown sand with silt	
Dry	<168	1.0	N		1		1	SP-SM	(1-2') SAND, brown, poorly graded, little silt no odor, no staining
Dry	<168	1.1	N	PH06	2		2		
						Total Depth @ 2 feet bgs			


 ENSOLUM		Sample Name: PH07		Date: 3/27/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.213410, -103.851114				Logged By: TH/US				
				Method: Trackhoe				
				Hole Diameter: 24"				
				Total Depth: 2'				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	51.2	N	PH07	0.5		CCHE	(0-1') CALICHE, white, no odor, no staining trace brown silt
Dry	<168	150.2	N	PH07	1	1	SP-SM	(1-2') SAND, brown, poorly graded, little silt some caliche, no odor, no staining
Dry	<168	4.0	N	PH07	2	2		(@2') SAND, brown, poorly graded, little silt, no odor, no staining
						Total Depth @ 2 feet bgs		


 ENSOLUM		Sample Name: PH08		Date: 3/28/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.213505, -103.851232				Logged By: TH/US		Method: Trackhoe		
				Hole Diameter: 24"		Total Depth: 2'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	3.1	N	PH08	0.5		CCHE	(0-1') CALICHE, white, odor, no staining some brown sand, well graded
Dry	<168	2.1	N		1	1	SP-SM	(1-2') SAND, brown, poorly graded, trace silt no odor, no staining
Dry	<168	1.4	N	PH08	2	2		
Total Depth @ 2 feet bgs								



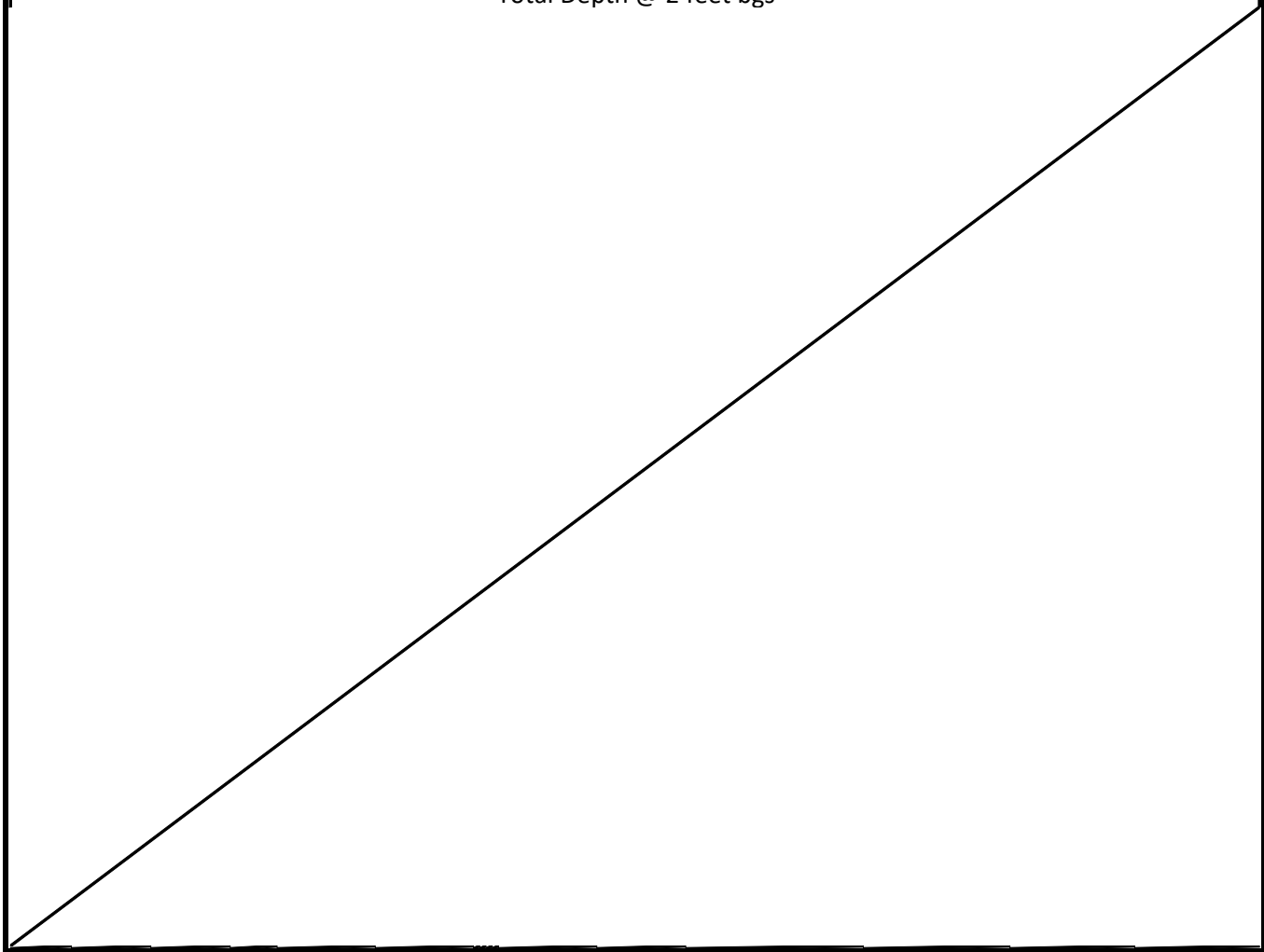
 ENSOLUM		Sample Name:PH09		Date:3/28/2024					
		PLU 23 Dog Town Draw CVB							
		Incident Number: nAPP2402531559 / nAPP2402633992							
		Job Number: 03C1558323							
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: TH/US		Method: Shovel			
Coordinates: 32.213408, -103.850760				Hole Diameter:12"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	<168	27.7	N	PH09	0.5		CCHE	(0-1') CALICHE, white, odor, no staining some brown silt, well graded	
Dry	<168	6.0	N		1		1	SP-SM	(1-2') SAND, brown, poorly graded, trace silt with odor, no staining
Dry	<168	3.9	N	PH09	2		2		(@2') no odor, some silt
Total Depth @ 2 feet bgs									
									


 ENSOLUM		Sample Name: BH01		Date: 5/9/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.213458, -103.851419				Logged By: US		Method: Hand Auger		
				Hole Diameter: 3"		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 with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.0	N	BH01	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt no odor (3-4') SAND, reddish brown, fine grained, little clay no odor (@4') some clay
Dry	<162	0.0	N		1	1		
Dry	<162	0.0	N	BH01B	2	2		
Dry	<162	0.0	N		3	3	SP-SC	
Dry	<162	0.0	N	BH01D	4	4	SC	
						Total Depth @ 4 feet bgs		

						Sample Name: BH02		Date: 5/9/2024	
						PLU 23 Dog Town Draw CVB			
						Incident Number: nAPP2402531559 / nAPP2402633992			
						Job Number: 03C1558323			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: US		Method: Hand Auger	
Coordinates: 32.213488, -103.851311						Hole Diameter: 3"		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 with a 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	<162	0.0	N	BH02	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt	
Dry	<162	0.0	N		1				
Dry	<162	0.0	N	BH02B	2				
Dry	<162	0.0	N		3		SP-SC	(3-4') SAND, reddish brown, fine grained, little clay	
Dry	<162	0.3	N	BH02D	4		SC	(@4') CLAYEY SAND, brown, no odor	
						Total Depth @ 4 feet bgs			
									

 ENSOLUM		Sample Name: BH03		Date: 5/9/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.213439, -103.851267				Logged By: US		Method: Hand Auger		
				Hole Diameter: 3"		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 with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	8.7	N	BH03	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt
Dry	<162	4.0	N		1	1		
Dry	<162	1.6	N	BH03B	2	2		
Dry	<162	0.8	N		3	3	SP-SC	(3-4') SAND, reddish brown, fine grained, little clay
Dry	<162	0.8	N	BH03D	4	4	SC	(@4') CLAYEY SAND, brown, no odor
						Total Depth @ 4 feet bgs		

 ENSOLUM		Sample Name: BH04		Date: 5/9/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.213409, -103.851377				Logged By: US		Method: Hand Auger		
				Hole Diameter: 3"		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 with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.0	N	BH04	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt no odor
Dry	<162	0.0	N		1	1		
Dry	<162	0.0	N	BH04B	2	2		
Dry	<162	0.0	N		3	3	SP	(3-4') SAND, reddish brown, fine grained, trace clay no odor
Dry	<162	0.0	N	BH04D	4	4	SP-SC	(@4') SAND, reddish brown, fine grained, little clay no odor
						Total Depth @ 4 feet bgs		

					Sample Name: BH05		Date: 5/10/2024	
					PLU 23 Dog Town Draw CVB			
					Incident Number: nAPP2402531559 / nAPP2402633992			
					Job Number: 03C1558323			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: US		Method: Hand Auger	
Coordinates: 32.213363, -103.851366					Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.0	N	BH05	0.5		SP	(0-3') SAND, dark brown, fine grained, trace silt
Dry	<162	0.0	N		1			
Dry	<162	0.0	N	BH05B	2			(@2') trace clay, no odor
Total Depth @ 2 feet bgs								
								

		Sample Name: BH06		Date: 5/9/2024				
		PLU 23 Dog Town Draw CVB						
		Incident Number: nAPP2402531559 / nAPP2402633992						
		Job Number: 03C1558323						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: US		Method: Hand Auger		
Coordinates: 32.213379, -103.851303				Hole Diameter: 3"		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 with a 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.0	N	BH04	0.5		SP	(0-3') SAND, brown, fine grained, trace silt no odor
Dry	<162	0.0	N		1	1		
Dry	<162	0.0	N	BH04B	2	2		(@2') trace clay
Dry	<162	0.0	N		3	3	SP	(@3') little clay no odor
Dry	<162	0.2	N	BH04D	4	4	SP-SC	(@4') SAND, reddish brown, fine grained, some clay no odor
						Total Depth @ 4 feet bgs		



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

March 13, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 23 DOG TOWN DRAW CVB

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2024
Reported: 03/13/2024
Project Name: PLU 23 DOG TOWN DRAW CVB
Project Number: 03C1558324
Project Location: XTO - 32.21345,-103.85032

Sampling Date: 03/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 01 @ 0.5' (H241163-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2024
Reported: 03/13/2024
Project Name: PLU 23 DOG TOWN DRAW CVB
Project Number: 03C1558324
Project Location: XTO - 32.21345,-103.85032

Sampling Date: 03/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 @ 0.5' (H241163-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741		
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696		
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941		
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459		
Total BTEX	<0.300	0.300	03/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	33.5	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2024
Reported: 03/13/2024
Project Name: PLU 23 DOG TOWN DRAW CVB
Project Number: 03C1558324
Project Location: XTO - 32.21345,-103.85032

Sampling Date: 03/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 @ 0.5' (H241163-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741		
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696		
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941		
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459		
Total BTEX	<0.300	0.300	03/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2024
Reported: 03/13/2024
Project Name: PLU 23 DOG TOWN DRAW CVB
Project Number: 03C1558324
Project Location: XTO - 32.21345,-103.85032

Sampling Date: 03/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 @ 0.5' (H241163-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741		
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696		
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941		
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459		
Total BTEX	<0.300	0.300	03/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2024
Reported: 03/13/2024
Project Name: PLU 23 DOG TOWN DRAW CVB
Project Number: 03C1558324
Project Location: XTO - 32.21345,-103.85032

Sampling Date: 03/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 05 @ 0.5' (H241163-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741		
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696		
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941		
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459		
Total BTEX	<0.300	0.300	03/09/2024	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	32.0	16.0	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/07/2024
Reported: 03/13/2024
Project Name: PLU 23 DOG TOWN DRAW CVB
Project Number: 03C1558324
Project Location: XTO - 32.21345,-103.85032

Sampling Date: 03/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 06 @ 0.5' (H241163-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741		
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696		
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941		
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459		
Total BTEX	<0.300	0.300	03/09/2024	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	112	16.0	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	234	117	200	4.46	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	249	124	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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-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.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



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

April 04, 2024

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 23 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 03/28/24 13:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 1 0.5 (H241622-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/01/2024	ND	2.04	102	2.00	4.16	
Toluene*	14.7	1.00	04/01/2024	ND	2.03	101	2.00	5.14	
Ethylbenzene*	5.84	1.00	04/01/2024	ND	1.96	98.2	2.00	5.34	
Total Xylenes*	82.9	3.00	04/01/2024	ND	5.95	99.1	6.00	4.96	
Total BTEX	103	6.00	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	80.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2610	100	04/01/2024	ND	230	115	200	7.04	QM-07, QR-03
DRO >C10-C28*	20400	100	04/01/2024	ND	225	112	200	8.45	QM-07, QR-03
EXT DRO >C28-C36	2860	100	04/01/2024	ND					

Surrogate: 1-Chlorooctane 168 % 48.2-134

Surrogate: 1-Chlorooctadecane 386 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 1 1 (H241622-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	04/01/2024	ND	2.04	102	2.00	4.16	
Toluene*	62.3	5.00	04/01/2024	ND	2.03	101	2.00	5.14	
Ethylbenzene*	16.8	5.00	04/01/2024	ND	1.96	98.2	2.00	5.34	
Total Xylenes*	234	15.0	04/01/2024	ND	5.95	99.1	6.00	4.96	
Total BTEX	313	30.0	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6420	100	04/01/2024	ND	230	115	200	7.04	
DRO >C10-C28*	12100	100	04/01/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	1500	100	04/01/2024	ND					

Surrogate: 1-Chlorooctane 192 % 48.2-134

Surrogate: 1-Chlorooctadecane 206 % 49.1-148

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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 1 8 (H241622-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2024	ND	2.04	102	2.00	4.16		
Toluene*	<0.050	0.050	04/01/2024	ND	2.03	101	2.00	5.14		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.96	98.2	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.95	99.1	6.00	4.96		
Total BTEX	<0.300	0.300	04/01/2024	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	16.0	16.0	04/01/2024	ND	432	108	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	35.3	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 211 % 48.2-134

Surrogate: 1-Chlorooctadecane 226 % 49.1-148

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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 2 0.5 (H241622-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	29.3	2.00	04/01/2024	ND	1.94	96.9	2.00	5.76	QM-07	
Ethylbenzene*	9.70	2.00	04/01/2024	ND	1.92	95.9	2.00	6.30	QM-07	
Total Xylenes*	109	6.00	04/01/2024	ND	5.69	94.9	6.00	6.13	QM-07	
Total BTEX	148	12.0	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	04/01/2024	ND	432	108	400	3.77		

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7600	100	04/01/2024	ND	230	115	200	7.04	
DRO >C10-C28*	30000	100	04/01/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	4430	100	04/01/2024	ND					

Surrogate: 1-Chlorooctane 298 % 48.2-134

Surrogate: 1-Chlorooctadecane 544 % 49.1-148

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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 2 1 (H241622-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.28	5.00	04/01/2024	ND	1.88	94.1	2.00	6.87	GC-NC1
Toluene*	59.2	5.00	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	11.5	5.00	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	135	15.0	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	213	30.0	04/01/2024	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/01/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	5320	10.0	03/28/2024	ND	230	115	200	7.04		
DRO >C10-C28*	8200	10.0	03/28/2024	ND	225	112	200	8.45		
EXT DRO >C28-C36	1040	10.0	03/28/2024	ND						

Surrogate: 1-Chlorooctane 163 % 48.2-134

Surrogate: 1-Chlorooctadecane 180 % 49.1-148

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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 2 9 (H241622-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	<0.300	0.300	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/01/2024	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	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	59.5	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	13.3	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 3 0.5 (H241622-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	17.3	1.00	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	5.04	1.00	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	88.5	3.00	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	111	6.00	04/01/2024	ND					

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	04/01/2024	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

Surrogate: 1-Chlorooctane 224 % 48.2-134

Surrogate: 1-Chlorooctadecane 616 % 49.1-148

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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 3 1 (H241622-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.92	1.00	04/01/2024	ND	1.88	94.1	2.00	6.87	GC-NC1
Toluene*	31.9	1.00	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	7.27	1.00	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	121	3.00	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	162	6.00	04/01/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/01/2024	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*	3420	10.0	03/28/2024	ND	230	115	200	7.04		
DRO >C10-C28*	7350	10.0	03/28/2024	ND	225	112	200	8.45		
EXT DRO >C28-C36	930	10.0	03/28/2024	ND						

Surrogate: 1-Chlorooctane 161 % 48.2-134

Surrogate: 1-Chlorooctadecane 179 % 49.1-148

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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 3 8.5 (H241622-09)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.066	0.050	04/01/2024	ND	1.88	94.1	2.00	6.87	GC-NC1
Toluene*	1.38	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	0.393	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	7.02	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEx	8.87	0.300	04/01/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 136 % 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	32.0	16.0	04/01/2024	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*	312	10.0	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	1690	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	275	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 4 0.5 (H241622-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	55.6	5.00	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	14.6	5.00	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	241	15.0	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	311	30.0	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/01/2024	ND	400	100	400	3.92		

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7980	100	04/01/2024	ND	230	115	200	7.04	
DRO >C10-C28*	19000	100	04/01/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	2420	100	04/01/2024	ND					

Surrogate: 1-Chlorooctane 264 % 48.2-134

Surrogate: 1-Chlorooctadecane 332 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 4 1 (H241622-11)

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	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	0.054	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/01/2024	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	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 4 7 (H241622-12)

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	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	0.384	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	0.384	0.300	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	16.0	16.0	04/01/2024	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*	22.2	10.0	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	322	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	40.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 5 0.5 (H241622-13)**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	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B**mg/kg****Analyzed By: CT**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/01/2024	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	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 105 % 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, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 5 1 (H241622-14)

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	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	<0.300	0.300	04/01/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/01/2024	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	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 5 3 (H241622-15)

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	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	<0.300	0.300	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/01/2024	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	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	17.2	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 6 0.5 (H241622-16)

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	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	<0.300	0.300	04/01/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/01/2024	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	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	41.9	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 6 2 (H241622-17)

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	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	<0.300	0.300	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	16.0	16.0	04/01/2024	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	03/28/2024	ND	230	115	200	7.04	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 7 0.5 (H241622-18)

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	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	<0.300	0.300	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	04/01/2024	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*	36.4	10.0	03/29/2024	ND	230	115	200	7.04	
DRO >C10-C28*	572	10.0	03/29/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	67.8	10.0	03/29/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 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, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 7 1 (H241622-19)

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	04/01/2024	ND	1.88	94.1	2.00	6.87	
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76	
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30	
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13	
Total BTEX	<0.300	0.300	04/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/01/2024	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	03/29/2024	ND	230	115	200	7.04	
DRO >C10-C28*	62.4	10.0	03/29/2024	ND	225	112	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/29/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/28/2024
 Reported: 04/04/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO

Sampling Date: 03/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 7 2 (H241622-20)

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	04/01/2024	ND	1.88	94.1	2.00	6.87		
Toluene*	<0.050	0.050	04/01/2024	ND	1.94	96.9	2.00	5.76		
Ethylbenzene*	<0.050	0.050	04/01/2024	ND	1.92	95.9	2.00	6.30		
Total Xylenes*	<0.150	0.150	04/01/2024	ND	5.69	94.9	6.00	6.13		
Total BTEX	<0.300	0.300	04/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	32.0	16.0	04/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	237	118	200	5.62	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	229	114	200	5.71	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

BILL TO							ANALYSIS REQUEST																					
Company Name: Ensolum, LLC						P.O. #:																						
Project Manager: Ben Bell																												
Address: 601 N. Marlenfield St. STE 400																												
City: Midland						State: TX Zip: 79701																						
Phone #: 989 854 0832 Fax #:						Attn: Amy Ruth																						
Project #: 03C1558323 Project Owner: XTO						Address: 3104 E. Greenest																						
Project Name: PUA-23 DTD CVB						City: Carlsbad																						
Project Location: 3A, 21345, -109.85032						State: NM Zip: 88320																						
Sample Name: Tracy Hill 4d / Uric San Hilana						Phone #: 432.661.0571																						
FOR LAB USE ONLY						Fax #:																						
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH										
Hell 23	PH1	0.5	G	1	X							X		3-27-24	1439	X	X	X										
	PH1	1		1											1045	X												
	PH1	8		1											1317	X												
	PH2	0.5		1											1440	X												
	PH2	1		1											1100	X												
	PH2	9		1											1443	X												
	PH3	0.5		1											1441	X												
	PH3	1		1											1330	X												
	PH3	8.5		1											1340	X												
	PH4	0.5		1											1407	X												

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Relinquished By: [Signature] Date: 3-28-24 Received By: [Signature]

Reinforced By: [Signature] Date: 1-3-24 Received By: [Signature]

Delivered By: (Circle One) Observed Temp.: °C 0.3 Sample Condition Cool Intact Yes No Checked BY: (Initials) JPS

Sampler - UPS - Bus - Other: Corrected Temp.: °C No No

Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No Corrected Temp.: °C

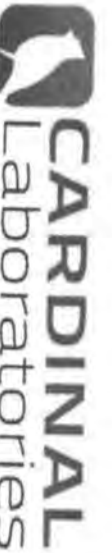
Incident #: NAPP24040531557 / NAPP24040633992

Remarks: Lost center 12210251001

All Results are emailed. Please provide Email address: Bbell@ensolum.com BBell11@gmail.com

Verbal Result: Yes No Add'l Phone #:

* Cardinal cannot accept verbal changes. Please email changes to order before shipment.



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. #:		BILL TO										ANALYSIS REQUEST																															
Project Manager: Ben Bell		Address: 601 N. Marland St. STE 400		City: Midland		State: TX		Zip: 79701		Company: XTO		Attn: Amy Ruth																																	
Phone #: 9898540832		Fax #: 9898540832		Project Owner: XTO		Address: 304 E. Garza St.		City: Lovelock		State: NM		Zip: 88300																																	
Project Name: PLM 23 DTD CIB		Project Location: 32, 21345, 103.85032		Sample Name: PH / US		Phone #: 4326410571		Fax #:																																					
FOR LAB USE ONLY																																													
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																															
										GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
H241122		PH4		1		1		1		X												X						32.24		1408		X		Chloride											
12		PH4		7		1		1																				1400		X		BTEX													
13		PH5		0.5		1		1																				1458		X		TPH													
14		PH5		1		1		1																				1459		X															
15		PH5		3		1		1																				1502		X															
16		PH6		0.5		1		1																				1501		X															
17		PH6		2		1		1																				1525		X															
18		PH7		0.5		1		1																				1532		X															
19		PH7		1		1		1																				1534		X															
20		PH7		2		1		1																				1536		X															
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Relinquished By: [Signature]		Date: 3/28/24		Received By: [Signature]		Date: 7/3/24		Time: 1342		Received By: [Signature]		Date: 7/3/24		Time: 1342		REMARKS: cost center: 2010251001 Incident: 0 APP2402531559/APP2402633992																													
Relinquished By: [Signature]		Date: 7/3/24		Received By: [Signature]		Date: 7/3/24		Time: 1342		Received By: [Signature]		Date: 7/3/24		Time: 1342		REMARKS: cost center: 2010251001 Incident: 0 APP2402531559/APP2402633992																													
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Rush		Bacteria (only)		Sample Condition		Observed Temp. °C		Corrected Temp. °C																							
Sampler - UPS - Bus - Other:		0.3		0.3		Cool Intact		APC		15 min		Standard		Rush		Cool Intact		Observed Temp. °C		Corrected Temp. °C																									
† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com																																													



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

April 09, 2024

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 23 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 04/03/24 14:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 8 0.5 (H241732-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	88.9	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	11.3	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 8 2 (H241732-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16		
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/08/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 9 0.5 (H241732-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16		
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	80.0	16.0	04/08/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	649	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	112	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 9 2 (H241732-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 01 0.5 (H241732-05)

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	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	96.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	345	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	75.7	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 02 0.5 (H241732-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16	
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35	
Total BTEX	<0.300	0.300	04/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	64.0	16.0	04/08/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	305	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	77.2	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 101 % 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, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 03 0.5 (H241732-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2024	ND	2.12	106	2.00	5.16		
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	96.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	991	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	237	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 04 0.5 (H241732-08)

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	04/05/2024	ND	2.12	106	2.00	5.16		
Toluene*	<0.050	0.050	04/05/2024	ND	2.15	107	2.00	6.07		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.09	104	2.00	6.24		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.31	105	6.00	5.35		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	96.0	16.0	04/08/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	962	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	283	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 05 0.5 (H241732-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	32.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	666	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	139	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 06 0.5 (H241732-10)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/08/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	309	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	80.5	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 07 0.5 (H241732-11)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/08/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	180	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	56.4	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 08 0.5 (H241732-12)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	418	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	115	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 09 0.5 (H241732-13)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	207	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	55.4	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 10 0.5 (H241732-14)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	72.1	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	12.7	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 11 0.5 (H241732-15)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	186	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	55.7	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 12 0.5 (H241732-16)

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	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	387	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	97.9	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 13 0.5 (H241732-17)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	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	112	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	204	102	200	0.693	
DRO >C10-C28*	944	10.0	04/04/2024	ND	217	109	200	1.08	
EXT DRO >C28-C36	287	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 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, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 14 0.5 (H241732-18)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	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	32.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
DRO >C10-C28*	74.1	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 15 0.5 (H241732-19)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
DRO >C10-C28*	122	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 16 0.5 (H241732-20)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
DRO >C10-C28*	318	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	45.5	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 17 0.5 (H241732-21)

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	04/05/2024	ND	2.04	102	2.00	0.566	
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822	
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554	
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495	
Total BTEX	<0.300	0.300	04/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
DRO >C10-C28*	57.9	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 18 0.5 (H241732-22)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEX	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
DRO >C10-C28*	294	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	40.2	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: PLU 23 DTD CVB
 Project Number: 03C1558323
 Project Location: XTO 32.21345,-103.85032

Sampling Date: 03/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 19 0.5 (H241732-23)

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	04/05/2024	ND	2.04	102	2.00	0.566		
Toluene*	<0.050	0.050	04/05/2024	ND	2.16	108	2.00	0.822		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.17	108	2.00	0.554		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	6.50	108	6.00	0.495		
Total BTEx	<0.300	0.300	04/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	221	111	200	0.228	
DRO >C10-C28*	442	10.0	04/04/2024	ND	197	98.3	200	2.06	
EXT DRO >C28-C36	60.5	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Ben Belli Address: 601 N. Mainfield St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 989-854-0852 Fax #: Project #: 03C1558383 Project Owner: XTO Project Name: PLU 83 DTD CNB Project Location: 38.21345, -103.85032 Sample Name: Tracy Hillard / Michael Santillan FOR LAB USE ONLY										P.O. #: Company: XTO Attn: Amy Ruth Address: 3104 El Greco St City: Calisbad State: NM Zip: 86320 Phone #: 433-661-0571 Fax #:										BILL TO										ANALYSIS REQUEST																			
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										MATRIX PRESERV SAMPLING										Chloride BTEX TPH																													
PH8 0.5 G 1 PH8 0.5 G 1 PH9 0.5 G 1 PH9 0.5 G 1 PH9 0.5 G 1 FS02 0.5 C 1 FS02 0.5 C 1 FS03 0.5 C 1 FS04 0.5 C 1 FS05 0.5 C 1 FS06 0.5 C 1										X X X X X X X X X X										3/28/24 0852 0856 0905 0912 0918 0921 0923 0927 1140 1000										X X X X X X X X X X																			
Relinquished By: [Signature] Relinquished Date: 4/3/24 Relinquished Time: 0700 Received By: [Signature] Received Date: 4/3/24 Received Time: 0700										Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Checked By: [Signature] Initials: [Signature]										Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C										REMARKS: cost center: 2A10 251001 Incident: APP0402/531559 / APP0402/633792 Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: Belling@ensolum.com BBelli@ensolum.com																			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ben Bell

Address: 601 N Marientfield Street, Suite 400

City: Midland **State:** TX **Zip:** 79701

Phone #: 989 854 0852 **Fax #:**

Project #: 03C15583323 **Project Owner:** XTO

Project Name: PU 23 DTD CIB

Project Location: 32, 21345, -103, 85032

Sample Name: Tracy Hiliard / Ariel Santaella

P.O. #:

Company: XTO

Attn: Amy Ruth

Address: 3104 E. Green

City: Carlsbad

State: NM **Zip:** 88220

Phone #: 432-461-0571 **Fax #:**

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
11241732		0.5														
21	FS17															
22	FS18															
23	FS19															

Relinquished By: [Signature] **Date:** 4/3/24 **Received By:** [Signature] **Date:** 4/3/24

Time: 0700 **Time:** 0700

Observed Temp. °C: 5.7 **Corrected Temp. °C:**

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No

Checked By: [Signature] **Checked By:** [Signature]

Remarks: cost center: 2210251001

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

All Results are emailed. Please provide Email address: BBell@ensolum.com



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

May 16, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 23 DTD CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/10/24 15:17.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 01 0.5' (H242580-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2024	ND	1.88	94.1	2.00	8.84	
Toluene*	<0.050	0.050	05/14/2024	ND	1.88	94.1	2.00	6.70	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	5.46	91.0	6.00	5.85	
Total BTEX	<0.300	0.300	05/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 01 B 2' (H242580-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/14/2024	ND	1.88	94.1	2.00	8.84		
Toluene*	<0.050	0.050	05/14/2024	ND	1.88	94.1	2.00	6.70		
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.87	93.7	2.00	5.72		
Total Xylenes*	<0.150	0.150	05/14/2024	ND	5.46	91.0	6.00	5.85		
Total BTEX	<0.300	0.300	05/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 80.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 01 D 4' (H242580-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.84		
Toluene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	6.70		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.87	93.7	2.00	5.72		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.46	91.0	6.00	5.85		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.9 % 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	32.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 02 B 2' (H242580-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.84		
Toluene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	6.70		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.87	93.7	2.00	5.72		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.46	91.0	6.00	5.85		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.9 % 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	16.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 118 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 02 D 4' (H242580-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.84	
Toluene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	6.70	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.87	93.7	2.00	5.72	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.46	91.0	6.00	5.85	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 03 0.5' (H242580-06)

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	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	289	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	34.1	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 03 B 2' (H242580-07)

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	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTX	<0.300	0.300	05/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 03 D 4' (H242580-08)

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	05/15/2024	ND	1.92	96.1	2.00	7.47		
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 04 0.5' (H242580-09)

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	05/15/2024	ND	1.92	96.1	2.00	7.47		
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	34.1	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 04 B 2' (H242580-10)

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	05/15/2024	ND	1.92	96.1	2.00	7.47	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 04 D 4' (H242580-11)

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	05/15/2024	ND	1.92	96.1	2.00	7.47		
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	05/15/2024	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	16.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 109 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 05 0.5' (H242580-12)

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	05/15/2024	ND	1.92	96.1	2.00	7.47		
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	05/15/2024	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	48.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	148	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	29.1	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 05 B 2' (H242580-13)

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	05/15/2024	ND	1.92	96.1	2.00	7.47		
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	05/15/2024	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	16.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 113 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 06 0.5' (H242580-14)

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	05/15/2024	ND	1.92	96.1	2.00	7.47		
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	17.1	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 06 B 2' (H242580-15)

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	05/15/2024	ND	1.92	96.1	2.00	7.47		
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	05/15/2024	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	16.0	16.0	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 05/10/2024
Reported: 05/16/2024
Project Name: PLU 23 DTD CVB
Project Number: 03C1558323
Project Location: XTO 32.213078,-103.850626

Sampling Date: 05/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 06 D 4' (H242580-16)

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	05/15/2024	ND	1.92	96.1	2.00	7.47		
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	7.16		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.99	99.5	2.00	7.08		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	05/14/2024	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	05/14/2024	ND	202	101	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

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

Project Manager: Tracy Hillard

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 575 937 3906

Project #: 03C1558323

Project Name: PLU 23 DTD CNB

Project Location: 32.213078, -103.850626

Sample Name: Unit 1 Section 1

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address: 3104 E. Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

Chloride

BTEX

TPH

Relinquished By:

Received By:

Date:

Time:

Relinquished By:

Received By:

Date:

Time:

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Yes

No

CHECKED BY: (Initials)

Turnaround Time:

Standard

Rush

Bacteria (only)

Cool Intact

Yes

No

Observed Temp. °C

Corrected Temp. °C



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: 575 937 3906 Fax #:

Project #: 03C1558323 Project Owner:

Project Name: 03C1558323

Project Location: 32.213078, -103.850626

Sampler Name: Uricl Sen Hillard

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address: 3104 E. Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth (feet)

11 BH04D

12 BH05

13 BH05B

14 BH06

15 BH06B

16 BH06D

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

chloride

TPH

BTEX

US

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Relinquished By:

Date: 5/10/24

Received By:

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

Relinquished By:

Date: 5/10/24

Received By:

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 5/10/24

Received By:

REMARKS: Cost center: 2210251001

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Thermometer ID#

Correction Factor -0.5°C

Rush

Cool Intact

Observed Temp. °C

Corrected Temp. °C

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 364656

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	364656
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2402633992
Incident Name	NAPP2402633992 PLU 23 DOG TOWN DRAW 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	PLU 23 Dog Town Draw CVB
Date Release Discovered	01/15/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
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: Freeze Separator Crude Oil Released: 35 BBL Recovered: 25 BBL Lost: 10 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	Cause: Freeze Separator Natural Gas Vented Released: 68 MCF Recovered: 0 MCF Lost: 68 MCF.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

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District III

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 364656

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	364656
	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: Melanie Collins Title: Regulatory Analyst Email: Melanie.Collins@exxonmobil.com Date: 01/26/2024
--	---

District I

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

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

QUESTIONS, Page 3

Action 364656

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	364656
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	NM OSE iWaters Database Search
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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	160
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	42000
GRO+DRO	(EPA SW-846 Method 8015M)	37600
BTEX	(EPA SW-846 Method 8021B or 8260B)	313
Benzene	(EPA SW-846 Method 8021B or 8260B)	72.8

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	09/13/2024
On what date will (or did) the final sampling or liner inspection occur	10/13/2024
On what date will (or was) the remediation complete(d)	10/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	28300
What is the estimated volume (in cubic yards) that will be reclaimed	2000
What is the estimated surface area (in square feet) that will be remediated	28300
What is the estimated volume (in cubic yards) that will be remediated	2000

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.

District I

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District III

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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Oil Conservation Division
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QUESTIONS, Page 4

Action 364656

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	364656
	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:	
<i>(Select all answers below that apply.)</i>	
(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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/16/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 364656

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	364656
	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 364656

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	364656
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	340366
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/10/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	4000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 364656

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 364656
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. The Variance Request for 400 ft2 floor confirmation sample size is approved. The release area will still need confirmation sidewall samples representing no more than 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.	8/6/2024