



November 25, 2025

**New Mexico Oil Conservation Division**

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

**Re: Remediation Work Plan  
Poker Lake Unit 30-19 BS 154H  
Incident Number nAPP2434530896  
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, delineation, and excavation activities completed to date and propose remedial actions to address impacted soil identified at the Poker Lake Unit 30-19 BS 154H (Site). The purpose of the Site assessment, delineation, and excavation activities was to determine the presence or absence of impacted soil resulting from a release of crude oil and produced water at the Site. The following *Work Plan* proposes to excavate impacted soil to remediate the identified contaminants of concern.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit C, Section 30, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.108379°, -103.817650°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 9, 2024, human error during flowback operations resulted in the release of 113 barrels (bbls) of crude oil and 429 bbls of produced water from an open top tank onto the well pad surface. An estimated 153 thousand cubic feet (Mcf) of natural gas was also vented. A vacuum truck was immediately dispatched; approximately 77 bbls of crude oil and 293 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) and an Initial C-141 Application (C-141) on December 10, 2024. The release was assigned Incident Number nAPP2434530896.

On March 19, 2025, XTO submitted a *Remediation Work Plan* to the NMOCD documenting delineation, excavation, and soil sampling activities conducted and requested approval to utilize alternative remediation to treat the impacted soil. On August 26, 2025, the NMOCD denied the *Remediation Work Plan* for multiple reasons.

## 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. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. In June 2022, a soil boring permitted by New Mexico Office of the State Engineer (C-4624) was completed approximately 0.39 miles south of the Site utilizing air rotary drilling method to a depth of 120 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 120 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 seasonal dry wash, located approximately 1,868 feet west 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. Based on the most recently updated BLM karst map (January 2025), the Site is not underlain by unstable geology (low potential karst designation area).

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

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

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

Between December 9 and December 17, 2024, Ensolum personnel conducted a Site assessment and delineation activities to evaluate the release extent based on visual observations and information included in the NOR and C-141. Eight delineation potholes (PH01 through PH08) were advanced via heavy equipment to investigate the vertical extent of the release. The potholes were advanced to terminal depths ranging from 4 feet to 14 feet bgs. Discrete soil samples were collected from each pothole at depths ranging from 0.5 feet to 14 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. A photographic log depicting Site activities is included in



Appendix B. Field screening results and observations for all potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The release extent area and delineation soil samples were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

On January 31, 2025, Ensolum personnel returned to the Site to further evaluate the release extent. Twenty-five delineation soil samples (SS01 through SS25) were collected at a depth of 0.5 feet bgs surrounding the release extent to define the lateral extent of the release. The delineation soil samples were field screened for VOCs and chloride as described above. Based on analytical results for soil sample SS02 collected on January 31, 2025, indicating waste-containing soil existed in that location, a second sample was collected just outside the original sample location on February 21, 2025, to delineate the release extent to the reclamation requirement. As mentioned above, a *Remediation Work Plan* was submitted to the NMOCD on March 19, 2025, following delineation activities.

Following denial of the March 2025, *Remediation Work Plan*, on September 24, 2025, Ensolum personnel returned to the Site to complete additional delineation activities to further define impacts to soil. Eleven delineation potholes (PH09 through PH19) were advanced via heavy equipment to further investigate the vertical extent of the release. The potholes were advanced to terminal depths ranging from 2 feet to 2.5 feet bgs, with discrete soil samples collected from each pothole at depths ranging from 0.5 feet to 2.5 feet bgs. The delineation soil samples were field screened for VOCs and chloride as described above.

All soil samples submitted to the laboratory 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 Standard Methods SM4500.

Following initial delineation soil sampling activities, the release footprint was scraped with heavy equipment to a depth of approximately 0.5 feet bgs to remove surficial gross impacts caused by the release. The western extent of the release, where field screenings indicated elevated COCs, was excavated to 1-foot bgs with heavy equipment. The western excavation was mapped utilizing a handheld GPS unit and is depicted on Figure 3. Approximately 2,000 cubic yards of soil were removed during the scrape and excavation activities. Copies of soil disposal manifests are available upon request.

## CONFIRMATION SOIL SAMPLING ACTIVITIES

On February 7, 2025, XTO submitted a request for a variance of confirmation soil sampling frequency via email. XTO proposed to collect five-point composite samples at a sampling frequency of every 400 square feet from the floor/base areas and every 200 square feet from the sidewall areas. The entirety of the release remained on the well pad, and the release extent area was approximately 81,750 square feet. The proposed sampling frequency was estimated to reduce the total number of confirmation soil samples from 410 samples to approximately 205 samples. On February 10, 2025, the NMOCD approved the sampling variance request via email with one condition: all sidewall samples were to be collected at a frequency of every 200 square feet. All NMOCD correspondence emails are included in Appendix D.

Between February 17 and February 21, 2025, Ensolum personnel collected a total of two hundred fourteen 5-point composite soil samples to confirm the extent of impacted soil within the release. Composite soil samples were collected within the release extent, including the floors and sidewalls of the surface scraped area. The 5-point composite soil samples were collected by placing five equivalent

aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples CS01 through CS136 were collected within the release area on the pad surface at a depth of 0.5 feet bgs. Confirmation floor soil samples FS01 through FS31, FS33 through FS64, and FS66 through FS73 were collected from the floor of the surface scraped area and confirmation sidewall samples SW01 through SW07 were collected from the sidewall of the surface scraped area. Soil sampling nomenclature FS32 and FS65 were inadvertently omitted while collecting the soil samples. The soil samples were handled and analyzed for the same COCs as described above and submitted to Cardinal in Hobbs, New Mexico.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results from delineation soil samples provided vertical definition to Table I Closure Criteria at depths ranging from 1-foot bgs (in PH04 and PH05) to 6 feet bgs (in PH07). Laboratory analytical results for all lateral delineation samples (SS01 through SS25) indicated COC concentrations were in compliance with the Table I Closure Criteria and the reclamation requirement, except for soil sample SS15, which contained 163 mg/kg TPH, slightly exceeding the reclamation requirement in the central portion of the well pad. Additional lateral delineation will be achieved with excavation sidewall samples or surface delineation soil samples in the area of SS15.

Thirty confirmation soil samples exceeded the Table I Closure Criteria for TPH, one confirmation soil sample exceeded for chloride (CS96), and two confirmation soil samples exceeded for total BTEX (CS04 and CS61). These samples are largely situated in the central portion of release extent. Forty-six floor and sidewall confirmation soil samples collected from the scraped area (FS01 through FS73, and SW01 through SW07) exceeded Table I Closure Criteria for TPH. All laboratory analytical results are summarized in Table 1. The complete laboratory analytical reports are included in Appendix E.

## PROPOSED REMEDIATION WORK PLAN

The confirmation soil sampling results indicate soil containing elevated TPH, chloride, and BTEX concentrations exist on pad across an approximate 29,385 square foot area and extends an additional depth of approximately 1-foot. The total release extent is approximately 81,750 square feet. As such, XTO proposes to complete the following remediation activities:

- Excavation of impacted soil identified during initial sampling activities to an additional depth of approximately 1-foot. Excavation will proceed until confirmation soil samples confirm all COC concentrations are compliant with the Closure Criteria. Figure 4 depicts the proposed excavation extents.
- Following the excavation of impacted soils, collection of 5-point composite soil samples representing no more than 400 square feet from the floor and 200 square feet from the sidewalls of the excavation according to the approved sampling frequency variance.
- An estimated 1,100 cubic yards of impacted soil will be excavated and disposed of at a New Mexico approved disposal facility.
- The excavation will be backfilled with locally procured material and recontoured to match pre-existing conditions.

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 approval of this *Work Plan*.

XTO Energy, Inc  
Remediation Work Plan  
Poker Lake Unit 30-19 BS 154H



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

Sincerely,  
**Ensolum, LLC**

A handwritten signature in black ink that reads "Tracy Hillard".

Tracy Hillard  
Project Engineer

A handwritten signature in black ink that reads "Morrissey".

Tacoma Morrissey  
Associate Principal

cc: Robert Woodall, XTO  
Richard Kotzur, XTO  
Bureau of Land Management

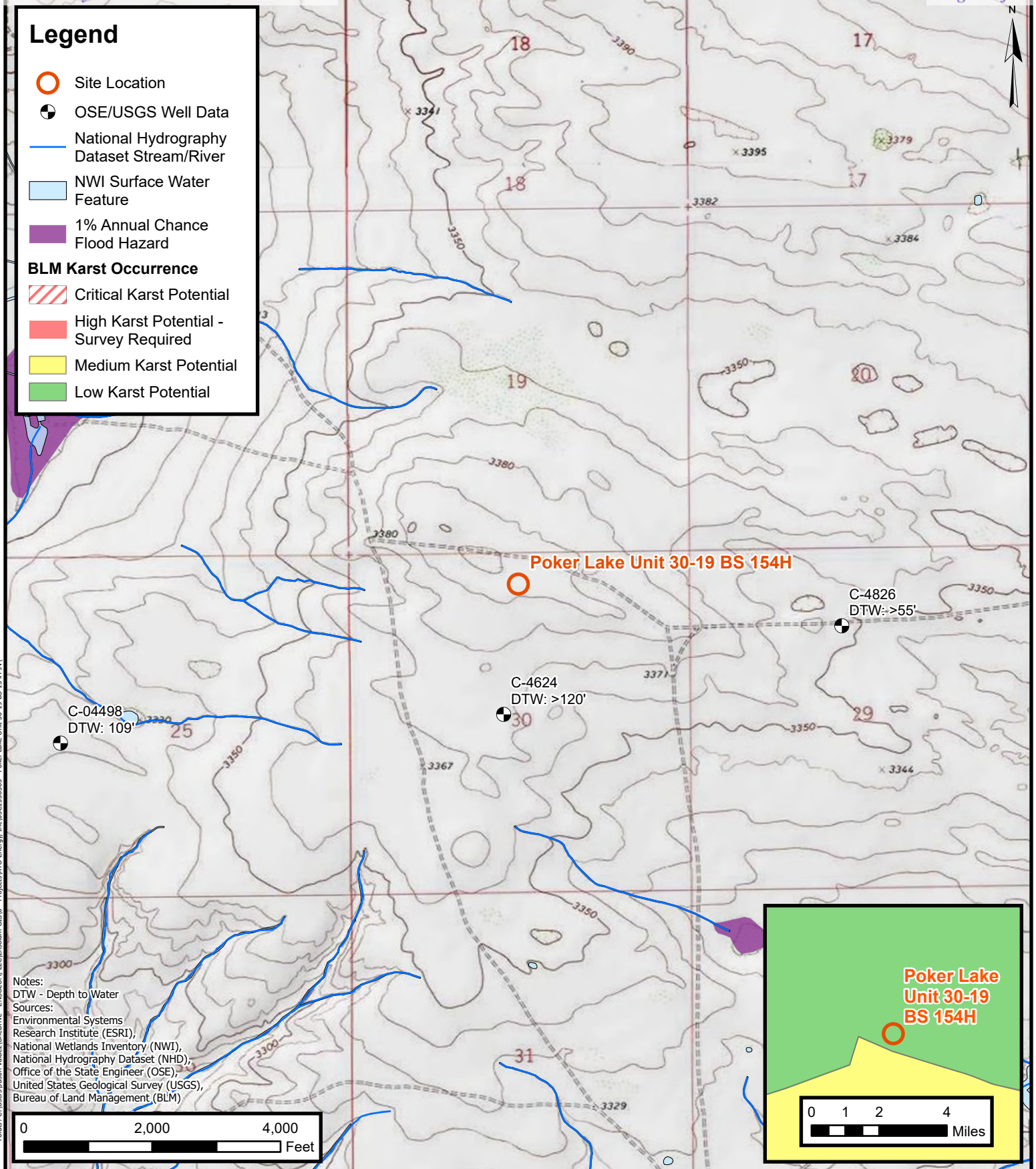
Appendices:

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



FIGURES

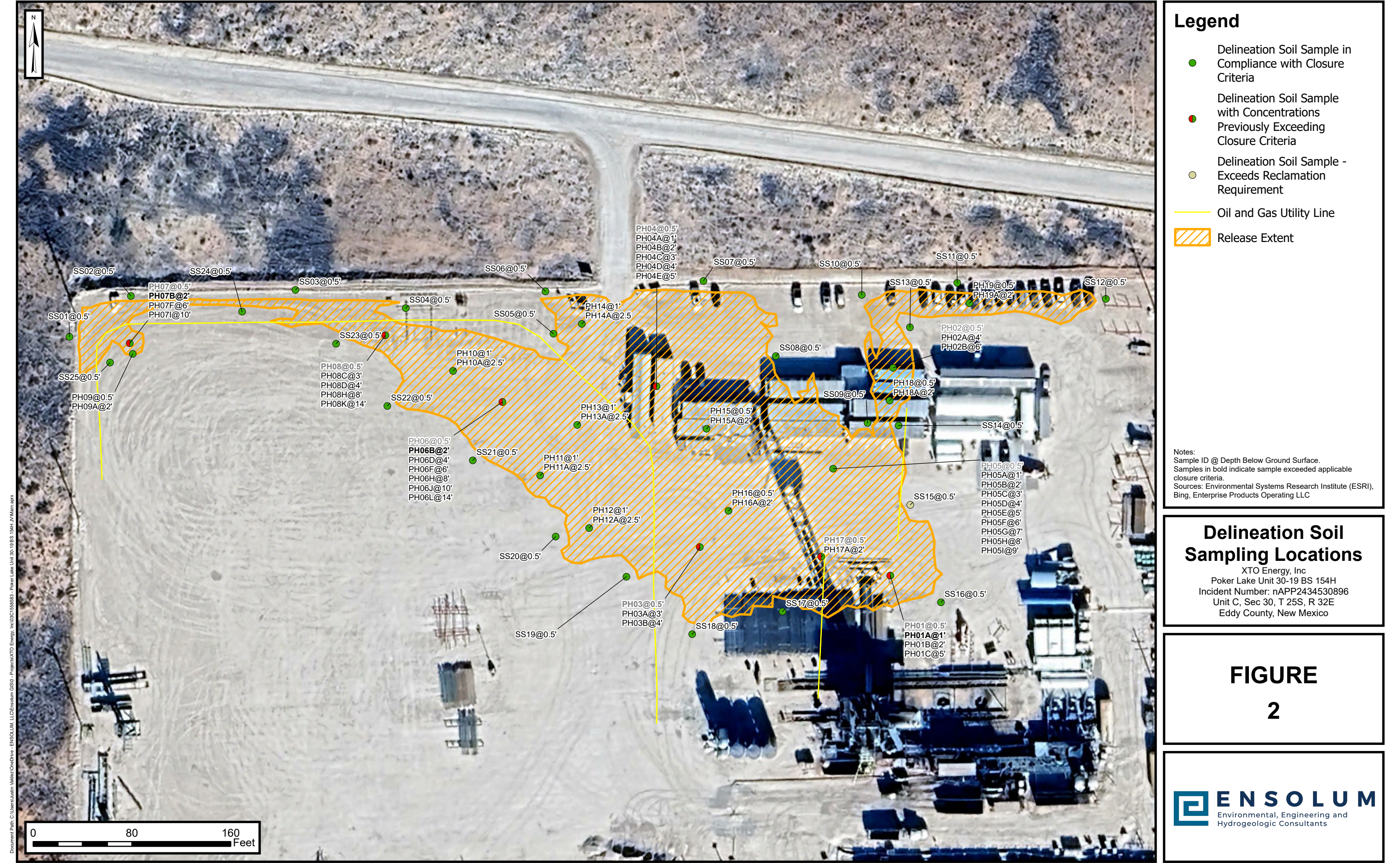




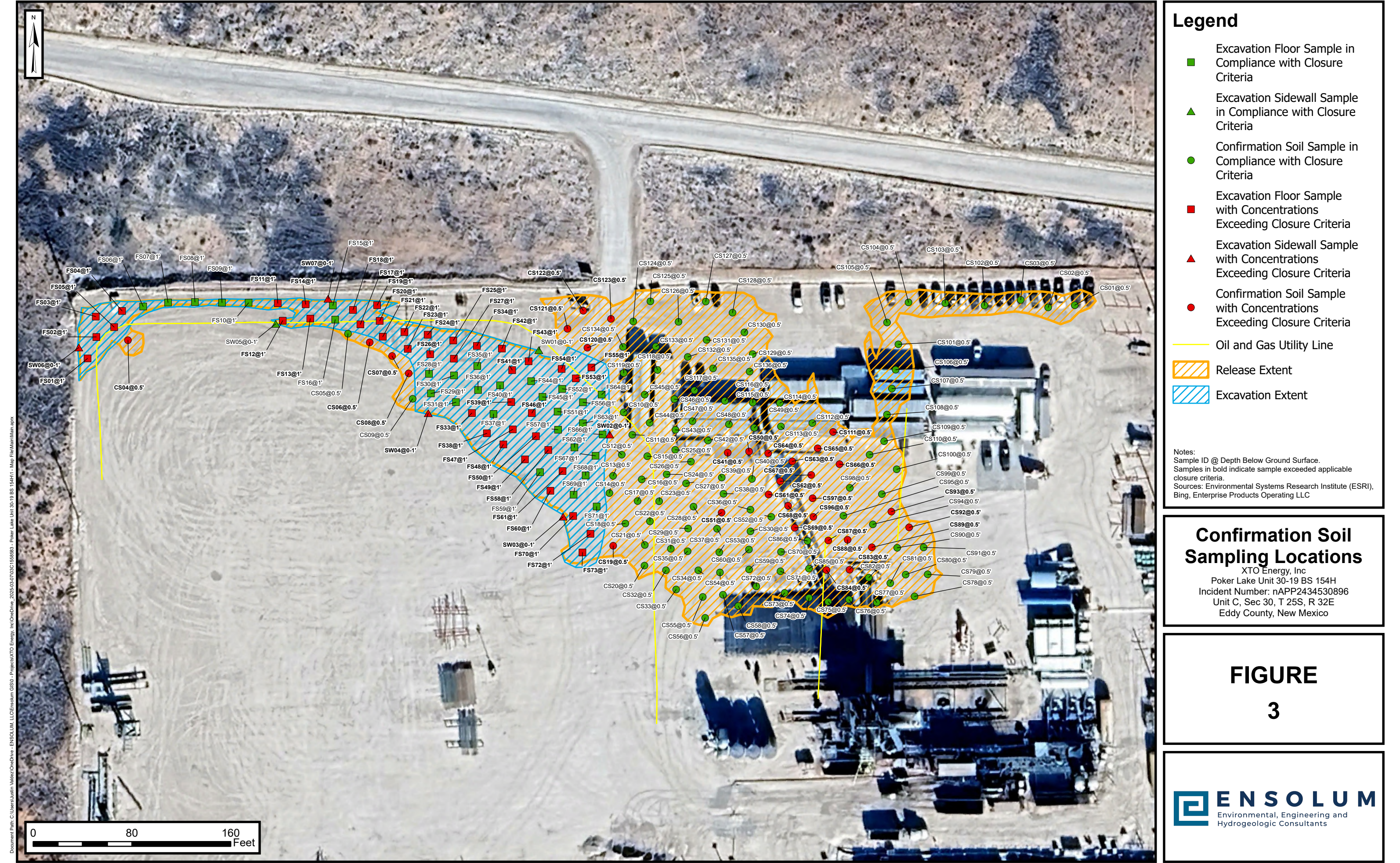
**Site Receptor Map**  
XTO Energy, Inc  
Poker Lake Unit 30-19 BS 154H  
Incident Number: nAPP2434530896  
Unit C, Section 30, T 25S, R 31E  
Eddy County, New Mexico

**FIGURE**  
**1**

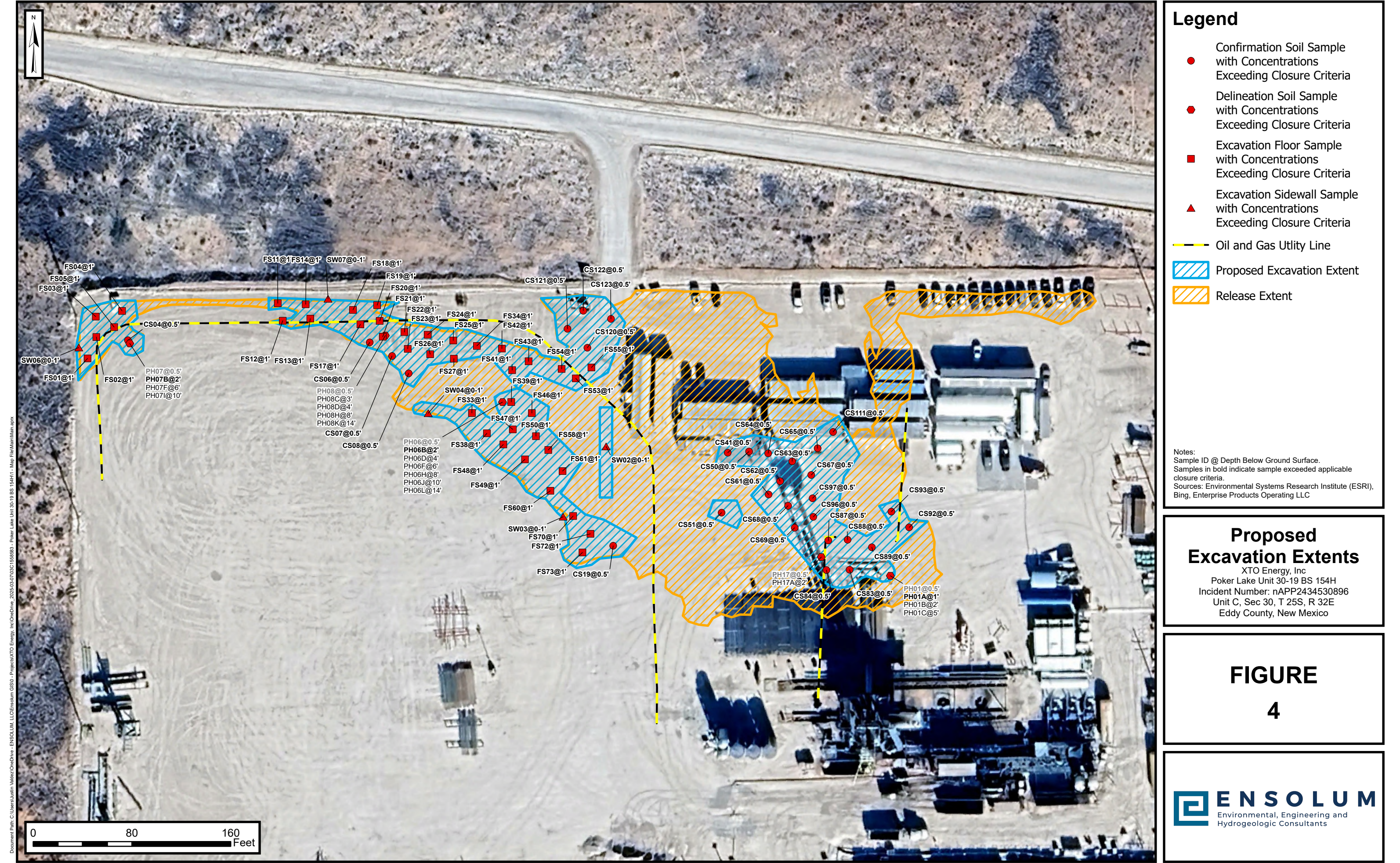
















TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Poker Lake Unit 30-19 BS 154H  
 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										
PH01	12/16/2024	0.5	0.789	100	1,190	3,260	350	4,450	4,800	7,600
PH01A	12/16/2024	1	<0.100	44.0	1,120	3,920	463	5,040	5,503	10,500
PH01B	12/16/2024	2	<0.050	<0.300	14.9	242	22.4	257	279	8,160
PH01C	01/31/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
PH02	12/16/2024	0.5	<0.050	<0.300	<10.0	11.8	<10.0	11.8	11.8	8,000
PH02A	12/16/2024	4	<0.050	<0.300	<10.0	21.8	<10.0	21.8	21.8	2,280
PH02B	12/16/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
PH03	12/16/2024	0.5	2.51	297	7,470	13,200	1,370	20,670	22,040	16,000
PH03A	12/16/2024	3	<0.050	<0.300	<10.0	25.3	<10.0	25.3	25.3	432
PH03B	12/16/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
PH04	12/16/2024	0.5	<0.050	0.823	41.1	991	104	1,032	1,136	5,730
PH04A	12/16/2024	1	<0.050	<0.300	<10.0	40.5	<10.0	40.5	40.5	672
PH04B	12/16/2024	2	<0.050	<0.300	<10.0	46.7	<10.0	46.7	46.7	304
PH04C	12/16/2024	3	<0.050	<0.300	<10.0	219	11.3	219	230	448
PH04D	12/16/2024	4	<0.050	<0.300	<10.0	47.5	<10.0	47.5	47.5	208
PH04E	12/16/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH05	12/16/2024	0.5	<0.050	0.876	15.3	198	20.6	213	234	5,460
PH05A	12/16/2024	1	<0.050	6.34	114	720	78.4	834	912	2,960
PH05B	12/16/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH05C	12/16/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH05D	12/16/2024	4	<0.050	<0.300	<10.0	63.2	<10.0	63.2	63.2	384
PH05E	12/16/2024	5	<0.050	<0.300	<10.0	135	<10.0	135	135	624
PH05F	12/16/2024	6	<0.050	1.71	70.9	610	48.6	681	730	1,230
PH05G	12/16/2024	7	<0.050	<0.300	<10.0	175	15.8	175	191	448
PH05H	12/16/2024	8	<0.050	<0.300	<10.0	106	<10.0	106	106	448
PH05I	12/16/2024	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
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 XTO Energy, Inc  
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
PH06	12/17/2024	0.5	<0.050	9.23	180	619	55.0	799	854	1,060
PH06B	12/17/2024	2	<0.050	14.5	295	946	93.9	1,241	1,335	464
PH06D	12/17/2024	4	<0.050	0.82	19.2	216	14.6	235	250	128
PH06F	12/17/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH06H	12/17/2024	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH06J	12/17/2024	10	<0.050	<0.300	<10.0	31.0	<10.0	31.0	31.0	112
PH06L	12/17/2024	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH07	12/17/2024	0.5	<2.00	697	15,900	32,400	3,200	48,300	51,500	80.0
PH07B	12/17/2024	2	<2.00	233	3,850	8,950	968	12,800	13,768	48.0
PH07F	12/17/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH07I	12/17/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH08	12/17/2024	0.5	<0.050	16.6	296	1,630	160	1,926	2,086	3,080
PH08C	12/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH08D	12/17/2024	4	<0.050	<0.300	<10.0	33.4	<10.0	33.4	33.4	32.0
PH08H	12/17/2024	8	<0.050	<0.300	10.7	205	20.9	216	237	96.0
PH08K	12/17/2024	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH09	09/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH09A	09/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH10	09/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH10A	09/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH11	09/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH11A	09/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
PH12	09/24/2025	1	<0.050	<0.300	<10.0	512	91.7	512	604	2,960
PH12A	09/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH13	09/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH13A	09/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH14	09/24/2025	1	<0.050	0.351	<10.0	56.1	<10.0	56.1	56.1	608
PH14A	09/24/2025	2.5	<0.050	<0.300	<10.0	13.8	<10.0	13.8	13.8	704
PH15	09/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,320
PH15A	09/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,280
PH16	09/24/2025	0.5	<0.050	<0.300	<10.0	141	17.7	141	159	4,160
PH16A	09/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160



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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
PH17	09/24/2025	0-5	<0.500	125	3,140	10,900	1,250	14,040	15,290	8,400
PH17A	09/24/2025	2	<0.050	<0.300	<10.0	45.2	<10.0	45.2	45.2	1,220
PH18	09/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
PH18A	09/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,050
PH19	09/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH19A	09/24/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS01	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	01/31/2025	0.5	<0.050	<0.300	<10.0	494	139	494	633	<16.0
SS02	02/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS03	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS05	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS06	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS08	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS09	01/31/2025	0.5	<0.050	<0.300	<10.0	13.6	<10.0	13.6	13.6	<16.0
SS10	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS11	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS12	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS13	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS14	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS15	01/31/2025	0.5	<0.050	<0.300	<10.0	131	32.3	131	163	<16.0
SS16	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS17	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS18	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS19	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS20	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS21	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS22	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS23	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS24	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS25	01/31/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Poker Lake Unit 30-19 BS 154H  
 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
Confirmation Surface Soil Samples										
CS01	02/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,200
CS02	02/21/2025	0.5	<0.050	<0.300	<10.0	363	39.4	363	402	1,200
CS03	02/21/2025	0.5	<0.050	<0.300	<10.0	467	45.3	467	512	1,440
CS04	02/18/2025	0.5	<0.500	212	4,340	15,700	1,750	20,040	21,800	160
CS05	02/18/2025	0.5	<0.050	4.96	86.9	794	105	881	986	240
CS06	02/18/2025	0.5	<0.200	39.1	586	2,670	294	3,260	3,550	464
CS07	02/18/2025	0.5	<0.200	36.9	772	4,540	437	5,310	5,750	1,460
CS08	02/18/2025	0.5	<0.050	3.34	194	2,000	182	2,200	2,380	576
CS09	02/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS10	02/19/2025	0.5	<0.050	<0.300	<10.0	158	14.7	158	173	1,800
CS11	02/19/2025	0.5	<0.050	<0.300	<10.0	243	25.5	243	269	1,240
CS12	02/19/2025	0.5	<0.050	<0.300	<10.0	262	28.4	262	290	960
CS13	02/19/2025	0.5	<0.050	<0.300	<10.0	148	20.9	148	169	896
CS14	02/19/2025	0.5	<0.050	<0.300	<10.0	284	35.9	284	320	1,140
CS15	02/20/2025	0.5	<0.050	<0.300	<10.0	670	101	670	771	14,600
CS16	02/20/2025	0.5	<0.050	<0.300	<10.0	80.1	10.2	80.1	90.3	1,020
CS17	02/20/2025	0.5	<0.050	<0.300	<10.0	70.9	<10.0	70.9	70.9	2,280
CS18	02/20/2025	0.5	<0.050	<0.300	<10.0	17.7	<10.0	17.7	17.7	3,440
CS19	02/20/2025	0.5	<0.050	<0.300	<10.0	2,550	381	2,550	2,930	11,000
CS20	02/20/2025	0.5	<0.050	<0.300	<10.0	12.4	<10.0	12.4	12.4	352
CS21	02/20/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
CS22	02/20/2025	0.5	<0.050	<0.300	<10.0	34.7	<10.0	34.7	34.7	400
CS23	02/20/2025	0.5	<0.050	<0.300	<10.0	36.5	<10.0	36.5	36.5	416
CS24	02/20/2025	0.5	<0.050	<0.300	<10.0	142	27.0	142	169	3,600
CS25	02/20/2025	0.5	<0.050	0.394	15.7	387	53.5	403	457	1,640
CS26	02/20/2025	0.5	<0.050	0.765	34.3	743	94.7	777	872	1,880
CS27	02/20/2025	0.5	<0.050	<0.300	<10.0	168	26.4	168	194	2,280
CS28	02/20/2025	0.5	<0.050	<0.300	<10.0	234	35.6	234	270	2,440
CS29	02/20/2025	0.5	<0.050	<0.300	<10.0	436	74.0	436	510	336
CS30	02/20/2025	0.5	<0.050	<0.300	<10.0	30.5	<10.0	30.5	30.5	288
CS31	02/20/2025	0.5	<0.050	<0.300	<10.0	14.5	<10.0	14.5	14.5	144



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Poker Lake Unit 30-19 BS 154H  
 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
CS32	02/20/2025	0.5	<0.050	0.645	<10.0	23.8	<10.0	23.8	23.8	240
CS33	02/20/2025	0.5	<0.050	<0.300	<10.0	22.4	<10.0	22.4	22.4	240
CS34	02/20/2025	0.5	<0.050	<0.300	<10.0	16.4	<10.0	16.4	16.4	320
CS35	02/20/2025	0.5	<0.050	<0.300	<10.0	22.5	<10.0	22.5	22.5	768
CS36	02/20/2025	0.5	<0.050	<0.300	<10.0	26.6	<10.0	26.6	26.6	432
CS37	02/20/2025	0.5	<0.050	<0.300	<10.0	21.9	<10.0	21.9	21.9	944
CS38	02/20/2025	0.5	<0.050	<0.300	18.7	660	86	679	765	2,600
CS39	02/20/2025	0.5	<0.050	<0.300	<10.0	58.8	<10.0	58.8	58.8	1,360
CS40	02/20/2025	0.5	<0.050	<0.300	<10.0	73.0	12.1	73.0	85.1	1,100
CS41	02/20/2025	0.5	<0.050	3.69	171	2,800	342	<b>2,970</b>	<b>3,310</b>	7,760
CS42	02/20/2025	0.5	<0.050	0.861	33.3	824	120	857	977	3,320
CS43	02/20/2025	0.5	<0.050	<0.300	<10.0	59.5	<10.0	59.5	59.5	576
CS44	02/20/2025	0.5	<0.050	<0.300	<10.0	32.2	<10.0	32.2	32.2	496
CS45	02/20/2025	0.5	<0.050	<0.300	<10.0	74.4	<10.0	74.4	74.4	656
CS46	02/20/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
CS47	02/20/2025	0.5	<0.050	<0.300	<10.0	58.7	<10.0	58.7	58.7	2,640
CS48	02/20/2025	0.5	<0.050	<0.300	<10.0	831	83.2	831	914	6,640
CS49	02/20/2025	0.5	<0.050	<0.300	<10.0	128	<10.0	128	128	6,600
CS50	02/20/2025	0.5	<0.050	0.713	159	2,910	271	<b>3,069</b>	<b>3,340</b>	6,900
CS51	02/20/2025	0.5	<0.050	10.1	397	3,800	373	<b>4,200</b>	<b>4,570</b>	3,440
CS52	02/20/2025	0.5	<0.050	<0.300	<10.0	35.3	<10.0	35.3	35.3	704
CS53	02/20/2025	0.5	<0.050	<0.300	<10.0	19.2	<10.0	19.2	19.2	192
CS54	02/20/2025	0.5	<0.050	<0.300	<10.0	66.7	<10.0	66.7	66.7	640
CS55	02/20/2025	0.5	<0.050	<0.300	<10.0	270	26.1	270	296	3,080
CS56	02/20/2025	0.5	<0.050	<0.300	<10.0	326	38.6	326	365	464
CS57	02/20/2025	0.5	<0.050	<0.300	<10.0	46.2	<10.0	46.2	46.2	1,420
CS58	02/20/2025	0.5	<0.050	<0.300	<10.0	15.6	<10.0	15.6	15.6	400
CS59	02/20/2025	0.5	<0.050	<0.300	<10.0	145	<10.0	145	145	720
CS60	02/20/2025	0.5	<0.050	<0.300	<10.0	51.7	<10.0	51.7	51.7	704
CS61	02/20/2025	0.5	<0.100	<b>51.9</b>	1030	3,900	374	<b>4,930</b>	<b>5,300</b>	5,280
CS62	02/20/2025	0.5	<0.050	4.85	202	2,810	288	<b>3,010</b>	<b>3,300</b>	9,680
CS63	02/20/2025	0.5	<0.050	5.78	221	2,160	213	<b>2,380</b>	<b>2,590</b>	9,000



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Poker Lake Unit 30-19 BS 154H  
 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
CS64	02/20/2025	0.5	<0.050	0.372	51.4	1,730	212	1,780	1,990	8,660
CS65	02/20/2025	0.5	<0.050	6.80	224	2,230	242	2,450	2,690	11,000
CS66	02/20/2025	0.5	<0.050	1.33	47.5	691	82.0	739	821	3,000
CS67	02/20/2025	0.5	<0.050	14.4	462	5,440	723	5,900	6,620	15,200
CS68	02/20/2025	0.5	<0.050	8.39	153	2,550	363	2,700	3,060	9,400
CS69	02/20/2025	0.5	<0.050	11.3	227	1,700	194	1,930	2,120	3,360
CS70	02/20/2025	0.5	<0.050	0.438	<10.0	55.6	<10.0	55.6	55.6	288
CS71	02/20/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS72	02/20/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
CS73	02/20/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS74	02/20/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
CS75	02/20/2025	0.5	<0.050	<0.300	<10.0	16.7	<10.0	16.7	16.7	368
CS76	02/20/2025	0.5	<0.050	0.488	19.1	437	37.7	456	494	1,400
CS77	02/20/2025	0.5	<0.050	0.871	<10.0	22.2	<10.0	22.2	22.2	416
CS78	02/20/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
CS79	02/20/2025	0.5	<0.050	4.33	70.9	474	39.3	545	584	1,040
CS80	02/20/2025	0.5	<0.050	<0.300	<10.0	25.7	<10.0	25.7	25.7	1,120
CS81	02/20/2025	0.5	<0.050	<0.300	<10.0	27.6	<10.0	27.6	27.6	1,150
CS82	02/20/2025	0.5	<0.050	<0.300	<10.0	25.2	<10.0	25.2	25.2	2,880
CS83	02/20/2025	0.5	<0.050	2.53	70.2	1,360	133	1,430	1,560	8,200
CS84	02/20/2025	0.5	<0.050	1.73	40.7	1,270	124	1,310	1,430	3,600
CS85	02/20/2025	0.5	<0.050	1.64	32.8	640	57.9	673	731	3,200
CS86	02/20/2025	0.5	<0.050	0.719	<10.0	162	<10.0	162	162	1,880
CS87	02/20/2025	0.5	<0.050	17.6	617	5,430	537	6,050	6,590	5,520
CS88	02/20/2025	0.5	<0.050	1.99	58.3	970	96.0	1,030	1,130	2,760
CS89	02/20/2025	0.5	<0.050	3.58	127	1,280	122	1,410	1,530	4,400
CS90	02/20/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
CS91	02/20/2025	0.5	<0.050	<0.300	<10.0	13.7	<10.0	13.7	13.7	272
CS92	02/20/2025	0.5	<0.050	1.96	55.2	1,450	191	1,510	1,700	6,960
CS93	02/20/2025	0.5	<0.050	9.57	320	2,390	361	2,710	3,070	2,160
CS94	02/20/2025	0.5	<0.050	<0.300	<10.0	44.3	<10.0	44.3	44.3	528
CS95	02/20/2025	0.5	<0.050	0.615	<10.0	274	29.9	274	304	752



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 Poker Lake Unit 30-19 BS 154H  
 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
CS96	02/20/2025	0.5	<0.050	2.57	58.3	2,780	336	2,840	3,180	20,200
CS97	02/21/2025	0.5	<0.050	0.673	29.1	2,990	381	3,020	3,400	17,400
CS98	02/21/2025	0.5	<0.050	4.62	105	702	59.8	807	867	1,010
CS99	02/21/2025	0.5	<0.050	<0.300	<10.0	111	<10.0	111	111	1,630
CS100	02/21/2025	0.5	<0.050	<0.300	<10.0	991	150	991	1,140	11,600
CS101	02/21/2025	0.5	<0.050	<0.300	<10.0	63.9	<10.0	63.9	63.9	832
CS102	02/21/2025	0.5	<0.050	<0.300	<10.0	188	16.3	188	204	2,080
CS103	02/21/2025	0.5	<0.050	<0.300	<10.0	175	31.6	175	207	1,920
CS104	02/21/2025	0.5	<0.050	<0.300	<10.0	25.8	<10.0	25.8	25.8	592
CS105	02/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
CS106	02/21/2025	0.5	<0.050	<0.300	<10.0	170	28.4	170	198	7,330
CS107	02/21/2025	0.5	<0.050	<0.300	<10.0	110	27.8	110	138	976
CS108	02/21/2025	0.5	<0.050	<0.300	<10.0	199	55.5	199	255	2,430
CS109	02/21/2025	0.5	<0.050	<0.300	<10.0	341	62.2	341	403	1,550
CS110	02/21/2025	0.5	<0.050	<0.300	<10.0	275	41.3	275	316	2,840
CS111	02/21/2025	0.5	<0.050	2.76	206	2,950	394	3,160	3,550	7,360
CS112	02/21/2025	0.5	<0.050	<0.300	<10.0	137	38.6	137	176	1,040
CS113	02/21/2025	0.5	<0.050	<0.300	<10.0	276	62.9	276	339	2,160
CS114	02/21/2025	0.5	<0.050	<0.300	<10.0	132	38.7	132	171	1,420
CS115	02/21/2025	0.5	<0.050	<0.300	<10.0	756	131	756	887	3,760
CS116	02/21/2025	0.5	<0.050	0.808	60.3	798	101	858	959	2,560
CS117	02/21/2025	0.5	<0.050	<0.300	<10.0	41.1	14.4	41.1	55.5	1,200
CS118	02/21/2025	0.5	<0.050	<0.300	<10.0	35.6	11.3	35.6	46.9	336
CS119	02/21/2025	0.5	<0.050	<0.300	<10.0	47.3	15.6	47.3	62.9	672
CS120	02/21/2025	0.5	<0.050	0.649	152	4,380	560	4,530	5,090	10,000
CS121	02/21/2025	0.5	<0.050	2.45	35.8	2,060	320	2,100	2,420	3,680
CS122	02/21/2025	0.5	<0.050	0.986	36.0	2,670	393	2,710	3,103	4,800
CS123	02/21/2025	0.5	<0.050	1.76	163	2,250	228	2,410	2,640	1,260
CS124	02/21/2025	0.5	<0.050	<0.300	<10.0	50.0	<10.0	50.0	50.0	352
CS125	02/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS126	02/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS127	02/21/2025	0.5	<0.050	<0.300	<10.0	81.7	<10.0	81.7	81.7	64.0



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Poker Lake Unit 30-19 BS 154H  
 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
CS128	02/21/2025	0.5	<0.050	<0.300	<10.0	29.3	<10.0	29.3	29.3	128
CS129	02/21/2025	0.5	<0.050	<0.300	<10.0	24.5	<10.0	24.5	24.5	240
CS130	02/21/2025	0.5	<0.050	<0.300	<10.0	10.7	<10.0	10.7	10.7	144
CS131	02/21/2025	0.5	<0.050	<0.300	<10.0	12.9	<10.0	12.9	12.9	272
CS132	02/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
CS133	02/21/2025	0.5	<0.050	<0.300	<10.0	47.2	<10.0	47.2	47.2	352
CS134	02/21/2025	0.5	<0.050	<0.300	<10.0	347	44.5	347	392	1,680
CS135	02/21/2025	0.5	<0.050	<0.300	<10.0	50.2	<10.0	50.2	50.2	336
CS136	02/21/2025	0.5	<0.050	<0.300	<10.0	815	120	815	935	2,760
<b>Confirmation Floor Soil Samples</b>										
FS01	02/17/2025	1	<0.050	24.6	620	7,920	1,080	<b>8,540</b>	<b>9,620</b>	944
FS02	02/17/2025	1	<0.050	8.44	218	4,080	574	<b>4,300</b>	<b>4,870</b>	1,200
FS03	02/17/2025	1	<0.050	6.80	252	4,090	558	<b>4,340</b>	<b>4,900</b>	1,340
FS04	02/17/2025	1	<0.050	12.9	330	2,850	377	<b>3,180</b>	<b>3,560</b>	640
FS05	02/17/2025	1	<0.200	<b>62.7</b>	1080	5,520	649	<b>6,600</b>	<b>7,250</b>	368
FS06	02/17/2025	1	<0.050	0.766	24.2	625	82.1	649	731	192
FS07	02/17/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS08	02/17/2025	1	<0.050	0.662	27.9	709	78.7	737	816	288
FS09	02/17/2025	1	<0.050	<0.300	16.1	464	50.4	480	530	320
FS10	02/17/2025	1	<0.050	3.29	72.4	770	81.3	842	923	784
FS11	02/17/2025	1	<0.050	11.1	268	4,430	602	<b>4,700</b>	<b>5,300</b>	4,400
FS12	02/17/2025	1	<0.050	2.45	75.4	2,210	320	<b>2,290</b>	<b>2,610</b>	1,620
FS13	02/17/2025	1	<0.050	0.335	14.8	1,270	189	<b>1,280</b>	1,470	400
FS14	02/17/2025	1	<0.050	0.684	21.9	1,900	267	<b>1,920</b>	2,190	3,360
FS15	02/17/2025	1	<0.050	<0.300	<10.0	120	15.6	120	136	768
FS16	02/18/2025	1	<0.050	0.529	20.6	625	57.8	646	704	256
FS17	02/18/2025	1	<0.050	5.68	154	2,140	272	<b>2,300</b>	<b>2,570</b>	400
FS18	02/18/2025	1	<0.050	11.4	332	2,880	358	<b>3,210</b>	<b>3,570</b>	512
FS19	02/18/2025	1	<0.100	33.8	592	4,540	543	<b>5,130</b>	<b>5,670</b>	144
FS20	02/18/2025	1	<0.050	2.59	45.5	985	121	<b>1,030</b>	1,150	384
FS21	02/18/2025	1	<0.050	12.0	304	3,350	431	<b>3,660</b>	<b>4,090</b>	1,580
FS22	02/18/2025	1	<0.050	0.406	34.3	1,500	202	<b>1,530</b>	1,730	560



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Poker Lake Unit 30-19 BS 154H  
 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
FS23	02/18/2025	1	<0.050	0.93	48.7	1,560	196	<b>1,610</b>	1,800	464
FS24	02/18/2025	1	<0.050	2.26	86.7	1,220	153	<b>1,310</b>	1,463	240
FS25	02/18/2025	1	<0.200	49.3	995	4,960	547	<b>5,960</b>	<b>6,500</b>	1,550
FS26	02/19/2025	1	<0.050	2.59	82.0	1,640	211	<b>1,720</b>	1,930	272
FS27	02/19/2025	1	<0.100	36.3	578	3,220	379	<b>3,800</b>	<b>4,180</b>	416
FS28	02/19/2025	1	<0.050	<0.300	<10.0	421	46.2	421	467	128
FS29	02/19/2025	1	<0.050	<0.300	<10.0	16.0	<10.0	16.0	16.0	48.0
FS30	02/19/2025	1	<0.050	<0.300	13.5	838	103	852	955	112
FS31	02/19/2025	1	<0.050	0.618	17.3	683	71.5	700	772	304
FS33	02/19/2025	1	<0.100	39.0	544	3,240	371	<b>3,781</b>	<b>4,150</b>	544
FS34	02/19/2025	1	<0.100	36.0	450	2,640	306	<b>3,090</b>	<b>3,400</b>	672
FS35	02/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS36	02/19/2025	1	<0.050	<0.300	<10.0	313	38.8	313	352	144
FS37	02/19/2025	1	<0.050	<0.300	<10.0	207	17.7	207	225	192
FS38	02/19/2025	1	<0.050	4.89	108	1,750	234	<b>1,860</b>	2,090	1,180
FS39	02/19/2025	1	<0.050	1.61	49.2	1,850	237	<b>1,900</b>	2,140	1,600
FS40	02/19/2025	1	<0.050	<0.300	<10.0	356	48.6	356	405	128
FS41	02/19/2025	1	<0.050	13.7	264	1,360	146	<b>1,630</b>	1,780	192
FS42	02/19/2025	1	<0.050	5.53	678	3,460	404	<b>4,140</b>	<b>4,540</b>	1,400
FS43	02/19/2025	1	<0.500	<b>59.4</b>	987	8,690	1,000	<b>9,680</b>	<b>10,680</b>	2,480
FS44	02/19/2025	1	<0.050	<0.300	<10.0	105	18.5	105	124	208
FS45	02/19/2025	1	<0.050	<0.300	<10.0	121	11.3	121	132	416
FS46	02/19/2025	1	<0.050	0.46	22.0	988	131	<b>1,010</b>	1,140	528
FS47	02/19/2025	1	<0.050	2.52	130	3,130	311	<b>3,260</b>	<b>3,570</b>	1,360
FS48	02/19/2025	1	<0.050	<0.300	<10.0	1,470	170	<b>1,470</b>	1,640	960
FS49	02/19/2025	1	<0.050	<0.300	<10.0	1,140	136	<b>1,140</b>	1,280	3,200
FS50	02/19/2025	1	<0.050	0.871	40.4	1,180	132	<b>1,220</b>	1,350	2,040
FS51	02/19/2025	1	<0.050	<0.300	<10.0	293	47.6	293	341	896
FS52	02/19/2025	1	<0.050	<0.300	<10.0	817	113	817	930	752
FS53	02/19/2025	1	<0.050	<0.300	<10.0	1,860	222	<b>1,860</b>	2,080	1,220
FS54	02/19/2025	1	<0.050	<0.300	<10.0	1,150	130	<b>1,150</b>	1,280	496
FS55	02/19/2025	1	<0.050	3.86	172	1,960	207	<b>2,130</b>	2,340	1,620





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Poker Lake Unit 30-19 BS 154H**  
**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
FS56	02/19/2025	1	<0.050	0.445	13.3	656	92.2	669	761	848
FS57	02/19/2025	1	<0.050	<0.300	<10.0	54.1	<10.0	54.1	54.1	1,330
FS58	02/19/2025	1	<0.050	0.384	36.3	1,480	173	<b>1,520</b>	1,690	4,000
FS59	02/19/2025	1	<0.050	<0.300	<10.0	502	85.1	502	587	6,480
FS60	02/19/2025	1	<0.050	21.2	442	5,710	712	<b>6,150</b>	<b>6,860</b>	8,720
FS61	02/19/2025	1	<0.050	0.424	20.2	1,190	134	<b>1,210</b>	1,340	2,920
FS62	02/19/2025	1	<0.050	<0.300	<10.0	101	<10.0	101	101	240
FS63	02/19/2025	1	<0.050	<0.300	<10.0	28.7	<10.0	28.7	28.7	384
FS64	02/19/2025	1	<0.050	<0.300	<10.0	669	82.8	669	752	1,760
FS66	02/19/2025	1	<0.050	<0.300	<10.0	30.3	<10.0	30.3	30.3	320
FS67	02/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS68	02/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS69	02/19/2025	1	<0.050	<0.300	<10.0	128	<10.0	128	128	1,740
FS70	02/19/2025	1	<0.050	5.96	270	2,430	248	<b>2,700</b>	<b>2,950</b>	2,960
FS71	02/19/2025	1	<0.050	<0.300	<10.0	794	108	794	902	2,960
FS72	02/19/2025	1	<0.050	14.1	393	4,570	584	<b>4,960</b>	<b>5,540</b>	7,300
FS73	02/19/2025	1	<0.100	34.0	554	5,410	698	<b>5,960</b>	<b>6,660</b>	6,160
<b>Confirmation Sidewall Soil Samples</b>										
SW01	02/21/2025	0-1	<0.050	<0.300	<10.0	713	105	713	818	1,800
SW02	02/21/2025	0-1	<0.050	2.16	155	4,090	426	<b>4,250</b>	<b>4,680</b>	4,560
SW03	02/21/2025	0-1	<0.050	1.14	48.3	2,880	433	<b>2,930</b>	<b>3,360</b>	3,680
SW04	02/21/2025	0-1	<0.050	<0.300	<10.0	2,090	347	<b>2,090</b>	2,440	2,200
SW05	02/21/2025	0-1	<0.050	<0.300	<10.0	188	28.1	188	216	144
SW06	02/21/2025	0-1	<0.050	30.3	751	10,700	1,440	<b>11,500</b>	<b>12,940</b>	496
SW07	02/21/2025	0-1	<0.050	1.47	58.2	5,660	825	<b>5,720</b>	<b>6,550</b>	5,520

## 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

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 Record

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4624 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-4624			
	WELL OWNER NAME(S) XTO ENERGY INC				PHONE (OPTIONAL) 432-236-3808			
	WELL OWNER MAILING ADDRESS 6401 HOLIDAY HILL ROAD				CITY MIDLAND	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 6	SECONDS 5.66 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	49	5.79 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE ON POKER LAKE UNIT 30 BS # 103H PAD								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 06/22/22	DRILLING ENDED 06/22/22	DEPTH OF COMPLETED WELL (FT) 120	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)			
	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 checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl) FROM TO		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)
				NO CASING IN HOLE				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4624-POD1	POD NO. POD1	TRN NO. 726169
LOCATION 25S.31E.30.4.4.1	WELL TAG ID NO. —	PAGE 1 OF 2



DEPTH (feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES <b>(attach supplemental sheets to fully describe all units)</b>	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	17	CALACHIE	Y ✓ N	
17	30	SAND	Y ✓ N	
30	40	SAND, SMALL GRAVEL	Y ✓ N	
40	95	SAND	Y ✓ N	
95	120	SANDSTONE, SAND	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: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER – SPECIFY: DRY HOLE			TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

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:	THE BORING WILL BE SECURED AND LEFT OPEN FOR 72 HOURS AT WHICH TIME, XTO WILL ASSESS FOR THE PRESENCE OR ABSENCE OF GROUNDWATER. XTO WILL BACKFILL THE BORING FOLLOWING NMOSE ABANDONMENT PROCEDURE FOR SOIL BORING.
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: RUSSELL SOUTHERLAND	

SIGNATURE	DATE
Russell Southerland SIGNATURE OF DRILLER / PRINT SIGNEE NAME	06/22/2022 DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



## APPENDIX B

### Photographic Log

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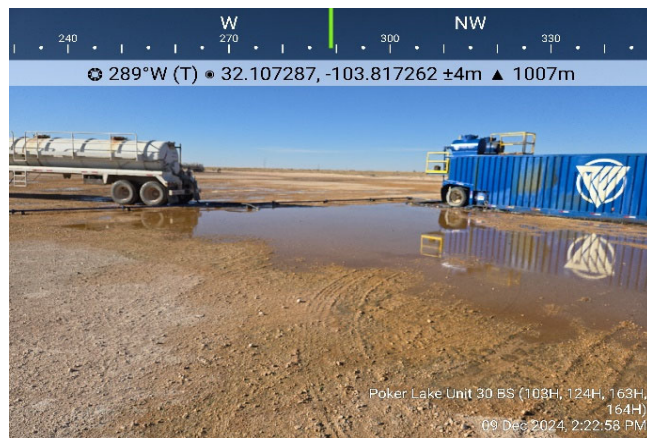


# Photographic Log

XTO Energy, Inc

Poker Lake Unit 30-19 BS 154H

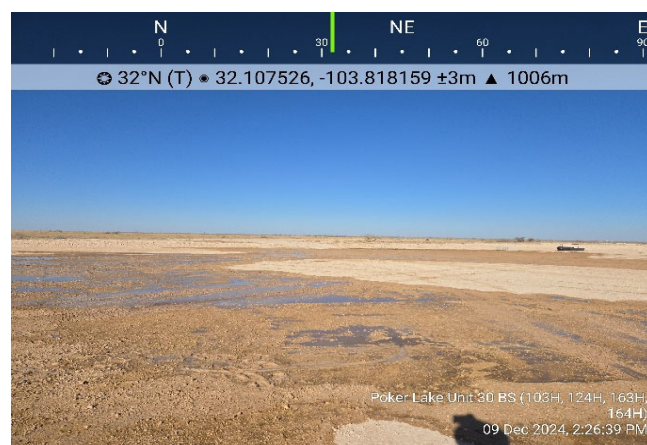
Incident Number NAPP2434530896



Photograph: 1 Date: 12/9/2024  
Description: Release point area, spill response.  
View: West



Photograph: 2 Date: 12/9/2024  
Description: Release point area, spill response.  
View: Southeast



Photograph: 3 Date: 12/9/2024  
Description: Surficial staining, middle of pad area.  
View: Northeast



Photograph: 4 Date: 12/9/2024  
Description: Northwest corner of pad, near PH07.  
View: Northeast



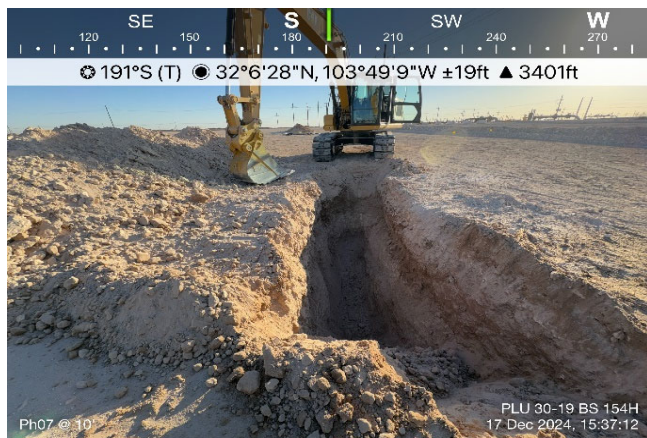


## Photographic Log

XTO Energy, Inc

Poker Lake Unit 30-19 BS 154H

Incident Number NAPP2434530896



Photograph: 5 Date: 12/17/2024  
Description: Delineation activities, PH07.  
View: South



Photograph: 6 Date: 12/17/2024  
Description: Delineation activities, PH08.  
View: Northwest



Photograph: 7 Date: 1/31/2025  
Description: Shallow excavation area.  
View: East



Photograph: 8 Date: 1/31/2025  
Description: Shallow excavation area.  
View: Southeast

**Photographic Log**

XTO Energy, Inc.

Poker Lake Unit 30-19 BS 154H

Incident Number NAPP2434530896



Photograph 9

Date: 2/20/2025

Description: Confirmation soil sampling activities.

View: East



Photograph 10

Date: 2/20/2025

Description: Confirmation soil sampling activities.


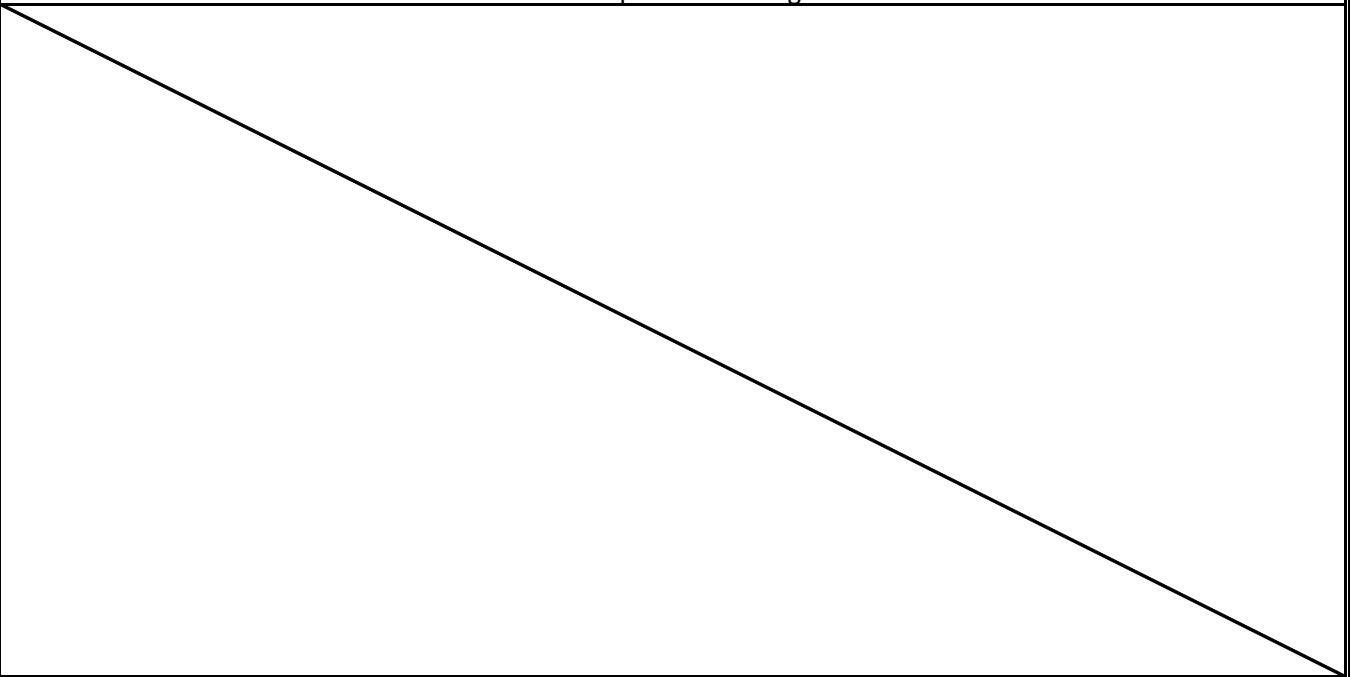
View: North




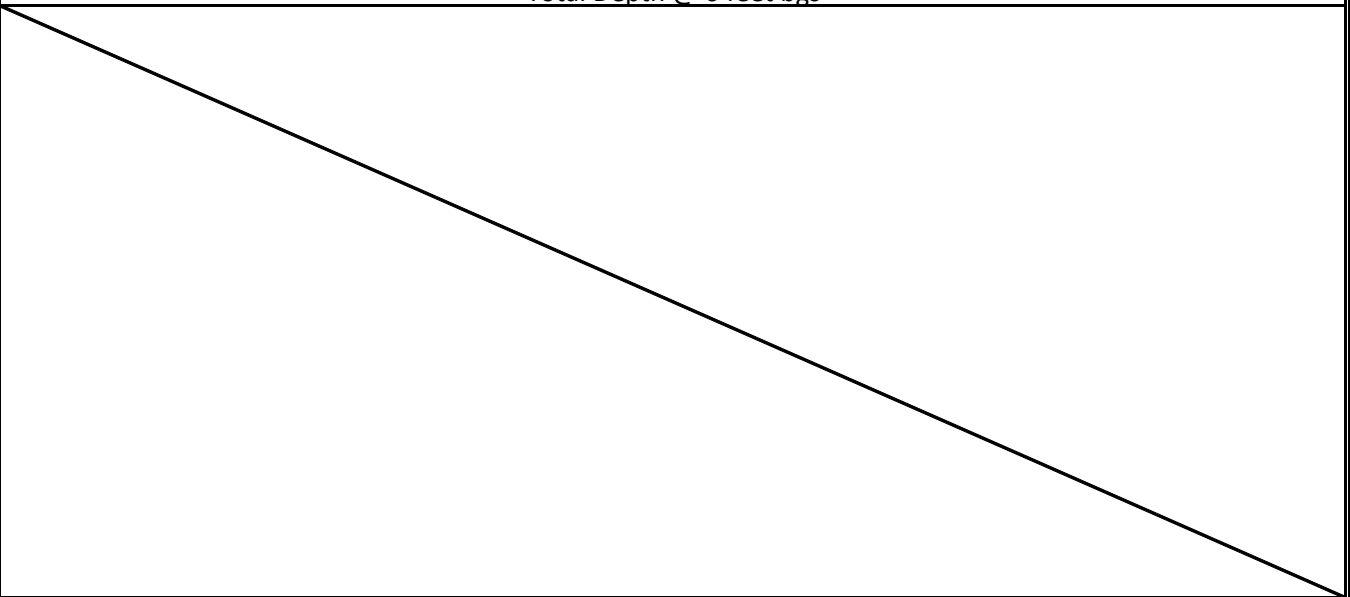
## APPENDIX C


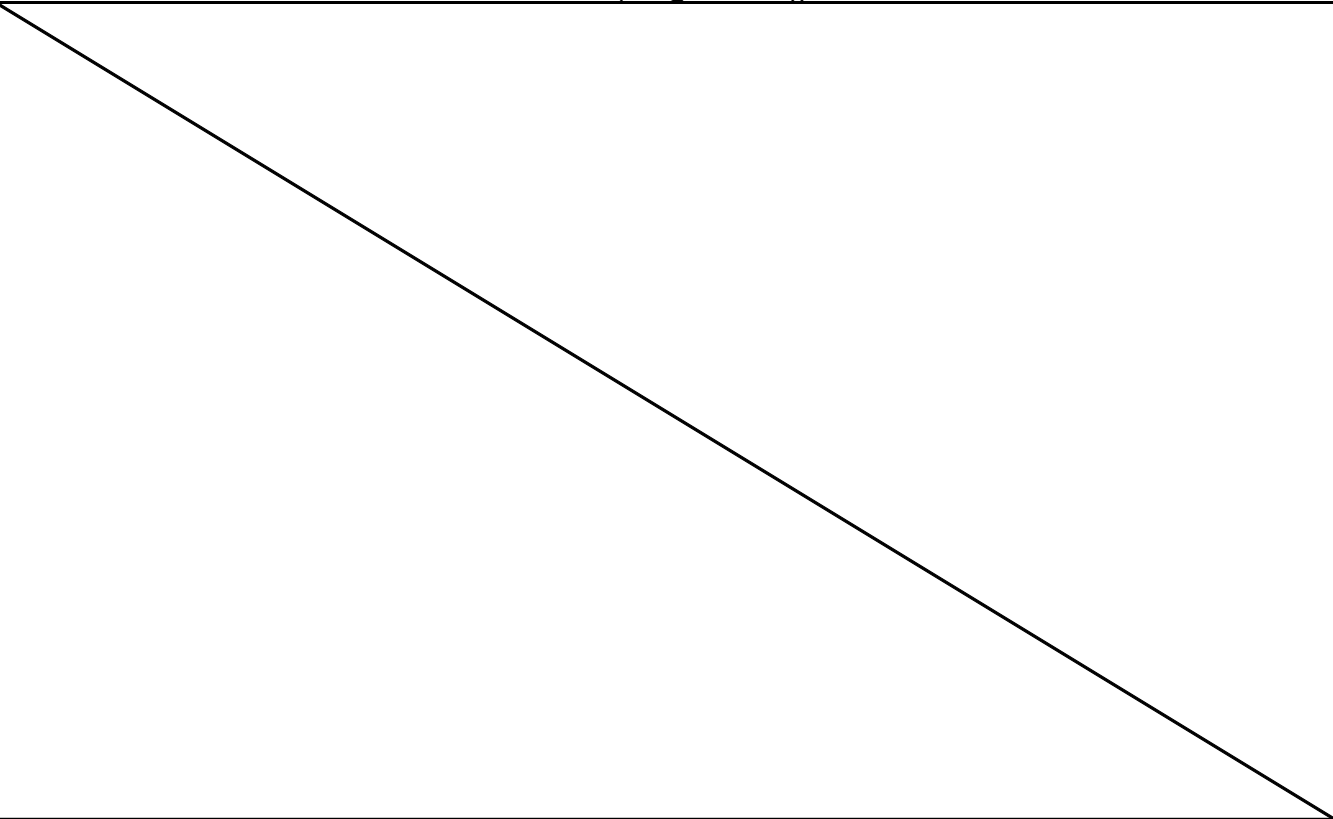
### Lithologic Soil Sampling Logs


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								Sample Name: PH01		Date: 12/16/2024	
								Site Name: PLU 30-19 BS 154H			
								Incident Number: nAPP2434530896			
								Job Number: 03C1558583			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: US		Method: Excavator	
Coordinates: 32.107367, -103.817248								Hole Diameter: 3'		Total Depth: 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. A +40% correction factors included for chloride calculations.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	CCHE	(0-5') CALICHE, well graded, fine to gravel size grain, tan sand with little silt, strong odor.			
M	9,279	428.0	Y	PH01	0.5						
M	13,653	600.0	Y	PH01A	1	1					
D	5,443	428.0	Y	PH01B	2	2					
					3	3					
D	610	8.8	N		4	4					
D	196	0.9	N	PH01C	5	5					
Total Depth at 5 feet bgs.											
											




								Sample Name: PH02		Date: 12/16/2024	
								Site Name: PLU 30-19 BS 154H			
								Incident Number: nAPP2434530896			
								Job Number: 03C1558583			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: US		Method: Excavator	
Coordinates: 32.108324, -103.817173								Hole Diameter: 3'		Total Depth: 6'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A +40% correction factors included for chloride calculations.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	10,007	1.8	Y	PH02	0.5	0	CCHE	(0-3') CALICHE, coarse tan sand with some silt, well graded, faint odor.			
D	5,443	1.8	N		1	1		CALICHE, tan sand with some silt, poorly graded, faint odor.			
D	1,266	0.0	N		2	2		no odor.			
D	2,654	0.0	N		3	3	CCHE	(3-6') CALICHE, fine to medium grain, tan sand, well graded, with some silt, no odor.			
D	1,478	0.0	N	PH02A	4	4					
					5	5					
D	319.2	0.0	N	PH02B	6	6					
Total Depth @ 6 feet bgs											
											


 <b>ENSOLUM</b>		Sample Name: PH03		Date: 12/16/2024				
		Site Name: PLU 30-19 BS 154H						
		Incident Number: nAPP2434530896						
		Job Number: 03C1558583						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.107437, -103.817743				Logged By: CW		Method: Excavator		
				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. A +40% correction factors included for chloride calculations.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	4,838	743	Y	PH03	0.5	0	CCHE	(0-4') CALICHE, tan, fine grained, moderately consolidated, some silt, mild H/C odor.
M	-	656	Y		1	1		
D	-	379	N		2	2		
D	-	12.6	N	PH03A	3	3		
D	-	10.1	N	PH03B	4	4		
Total Depth @ 4 feet bgs								
								


 <b>ENSOLUM</b>		Sample Name: PH04		Date: 12/16/2024				
		Site Name: PLU 30-19 BS 154H						
		Incident Number: nAPP2434530896						
		Job Number: 03C1558583						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.108394, -103.817785			Logged By: CW		Method: Excavator			
			Hole Diameter: 3'		Total Depth: 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. A +40% correction factors included for chloride calculations.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-5') CALICHE, tan, fine grained, moderately consolidated, some silt, no odor.
D	4,838	21.3	Y	PH04	0.5			
D	-	11.5	N	PH04A	1	1		
D	-	6.6	N	PH04B	2	2		
D	-	24.3	N	PH04C	3	3		
D	-	8.2	N	PH04D	4	4		
D	<168	0.6	N	PH04E	5	5		
Total Depth @ 5 feet bgs								

 <b>ENSOLUM</b>		Sample Name: PH05		Date: 12/16/2024				
		Site Name: PLU 30-19 BS 154H						
		Incident Number: nAPP2434530896						
		Job Number: 03C1558583						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.108340, -103.817309				Logged By: US/CW		Method: Excavator		
				Hole Diameter: 3'		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. A +40% correction factors included for chloride calculations.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-9') CALICHE, fine to medium grain, with some silt, moderately consolidated, mild H/C odor.
M	1,842	56.2	Y	PH05	0.5			
M	1,266	461	Y	PH05A	1	1		
D	<168	10.1	N	PH05B	2	2		(2-6') No odor.
D	<168	15.8	N	PH05C	3	3		
D	-	53.0	N	PH05D	4	4		
D	-	73.0	N	PH05E	5	5		
D	-	344	N	PH05F	6	6		(6-9') Strong odor.
D	-	195	N	PH05G	7	7		
D	-	45.2	N	PH05H	8	8		
D	274	1.9	N	PH05I	9	9		(@9') No odor.
Total Depth @ 9 feet bgs								



								Sample Name: PH06		Date: 12/17/2024	
								Site Name: PLU 30-19 BS 154H			
								Incident Number: nAPP2434530896			
								Job Number: 03C1558583			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: US		Method: Excavator	
Coordinates: 32.108433, -103.818122								Hole Diameter: 3'		Total Depth: 14'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A +40% correction factors included for chloride calculations.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	1,266	391	Y	PH06	0.5	0	CCHE	(0-4') CALICHE, trace fine dark sand with few silt, well consolidated, strong H/C odor.			
M	-	55.7	Y		1	1					
M	515.2	376	Y	PH06B	2	2		trace silt, strong odor			
D	-	103	N		3	3		Strong odor.			
D	162.4	124	N	PH06D	4	4	CCHE	(4-14') CALICHE, tan, fine to coarse grain, with silt, well sorted, odor.			
D	-	5.8	N		5	5		No odor.			
D	<162.4	22.3	N	PH06F	6	6		trace odor.			
D	-	120	N		7	7		Strong odor.			
D	<162.4	12.0	N	PH06H	8	8		No odor			
D	-	5.5	N		9	9					
D	<162.4	77.5	N	PH06J	10	10					
D	-	76.0	N		12	12					
D	274	3.4	N	PH06L	14	14					
Total Depth @ 14 feet bgs											

								Sample Name: PH07		Date: 12/17/2024	
								Site Name: PLU 30-19 BS 154H			
								Incident Number: nAPP2434530896			
								Job Number: 03C1558583			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: US		Method: Excavator	
Coordinates: 32.108545, -103.819165								Hole Diameter: 3'		Total Depth: 10'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A +40% correction factors included for chloride calculations.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	<162	770	Y	PH07	0.5	0	CCHE	(0-6') CALICHE, some fine brown sand with trace silt, well graded, strong odor, some oil sheen.			
M	-	628	Y		1	1					
M	-	840	Y	PH07B	2	2					
D	<162	102	Y		3	3		(3-6') some light brown silty sand laminations.			
D	<162	96.0	N		4	4					
D	-	315	N		5	5		Strong odor.			
D	<162	9.8	N	PH07F	6	6	CCHE	(6-10') CALICHE, tan, fine to coarse grain, with sand and trace silt, well graded.			
D	-	37.2	N		7	7		Trace odor.			
D	-	110	N		8	8		Strong odor.			
						9					
D	<162	2.5	N	PH07I	10	10					
Total Depth @ 10 feet bgs											

 <b>ENSOLUM</b>		Sample Name: PH08		Date: 12/17/2024				
		Site Name: PLU 30-19 BS 154H						
		Incident Number: nAPP2434530896						
		Job Number: 03C1558583						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.108470, -103.818468				Logged By: US		Method: Excavator		
				Hole Diameter: 3'		Total Depth: 14'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A +40% correction factors included for chloride calculations.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-14') CALICHE, brown, fine to medium grain with some gray silt, poorly graded, strong odor. Fine grain, with little gray silt.
M	3,590	388	Y	PH08	0.5			
M	515.2	190	Y		1	1		
M	-	399	Y		2	2		Strong odor.
D	<162	10.3	Y	PH08C	3	3		(3-14') some fine grain brown silty sand laminations.
D	-	17.3	Y	PH08D	4	4		Trace H/C odor.
D	<162	15.7	Y		5	5		
D	-	123.7	N		6	6		Strong odor.
D	<162	91.5	N		7	7		
D	-	208	N	PH08H	8	8		
D	<162	48.0	N		10	10		(10-14') some fine grain light brown silty sand laminations.
D	<162	66.0	N		12	12		
D	<162	28.9	N	PH08K	14	14		
Total Depth @ 14 feet bgs								



## APPENDIX D

### NMOCD Notifications

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<b>Location:</b>	<b>Poker Lake Unit 30-19 BS 154H</b>	
<b>Spill Date:</b>	<b>12/9/2024</b>	
<b>Area 1</b>		
Approximate Area =	77410.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.15	
<b>VOLUME OF LEAK</b>		
Total Crude Oil =	113.00	bbls
Total Produced Water =	429.00	bbls
<b>TOTAL VOLUME OF LEAK</b>		
Total Crude Oil =	113.00	bbls
Total Produced Water =	429.00	bbls
<b>TOTAL VOLUME RECOVERED</b>		
Total Crude Oil =	77.00	bbls
Total Produced Water =	293.00	bbls



**Ben Belill**

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Monday, February 10, 2025 6:36 PM  
**To:** Brown, Colton S  
**Cc:** Bratcher, Michael, EMNRD; Dirkx, Kaylan; McAfee, Ashley A; Woodall, Robert D; Tacoma Morrissey; Ben Belill  
**Subject:** RE: [EXTERNAL] XTO - Variance Request - POKER LAKE UNIT 30-19 BS 154H - Incident Number NAPP2434530896

[\*\*EXTERNAL EMAIL\*\*]

Good afternoon Colton,

I did get confirmation that the site of this release (32.10715,-103.81746) is indeed in low karst now and not in medium karst, as it had appeared on the OCD Environmental page. IT is currently updating the layer on our map to reflect the changes. Thank you for drawing this to my attention. A sampling variance is approved to collect all base samples at the 400 ft<sup>2</sup> frequency. All sidewall samples must be collected at a frequency of every 200 square feet. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Brown, Colton S <[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)>  
**Sent:** Friday, February 7, 2025 1:33 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Dirkx, Kaylan <[kaylan.dirkx@exxonmobil.com](mailto:kaylan.dirkx@exxonmobil.com)>; McAfee, Ashley A <[ashley.a.mcafee@exxonmobil.com](mailto:ashley.a.mcafee@exxonmobil.com)>; Woodall, Robert D <[robert.d.woodall@exxonmobil.com](mailto:robert.d.woodall@exxonmobil.com)>; Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>; Ben Belill <[bbelill@ensolum.com](mailto:bbelill@ensolum.com)>  
**Subject:** [EXTERNAL] XTO - Variance Request - POKER LAKE UNIT 30-19 BS 154H - Incident Number NAPP2434530896

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

XTO is requesting a variance request for frequency of confirmation soil sampling for an unauthorized release at the at the Poker Lake Unit 30-19 BS 154H (Incident Number NAPP2434530896) Site. Please see the attached Site

Receptor Map and supporting documentation for your review and consideration of a sampling frequency variance at the subject Site. On December 9, 2024 a crude oil, produced water, and natural gas release occurred at Site and was assigned Incident Number NAPP2434530896. Due to the estimated size of the release area, lack of sensitive receptors at the Site, and depth to groundwater estimated to be greater than 100 feet bgs, XTO requests a variance for sampling frequency of confirmation soil samples. XTO proposes to collect five-point composite samples at a sampling frequency of every 400 square feet on the surface of the well pad, within the release extent area, and within areas that have been scraped with heavy equipment at depths less than 0.5 feet bgs. The entirety of the release remained on the well pad and the release extent area is approximately 83,200 square feet. The proposed sampling frequency is estimated to reduce the total number of confirmation soil samples from 416 samples to approximately 208 samples. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The confirmation soil samples will be submitted to a New Mexico approved laboratory for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

Please see the attached figures with results of the desktop Site Characterization. There are no sensitive receptors at the Site, the Site is not within a 100-year floodplain, or in an area with a medium or high-karst designation. It is important to note that the initial desktop Site characterization review of the Site indicated the Site was located in a medium potential karst designation, however, upon further investigation through Site discussions with a 3rd party BLM-approved karst specialist and the BLM, the Site area has recently been updated from medium to low potential karst designation based on the most recent BLM karst map. Also attached is the well record for the nearest depth to groundwater soil boring drilled in June 2022, located within 0.5 miles of the Site, advanced to a depth of 120 feet. No groundwater was encountered, and the soil boring was subsequently backfilled with drill cuttings and hydrated bentonite chips.

We have included two figures showing the difference between the 200 square foot sampling grid and the requested 400 square foot sampling variance. Based on the following:

- A competent caliche rock unit exists at the site and appears to have acted as a barrier to additional vertical migration of impacts, the caliche depth is encountered between ground surface;
- The quantity of anticipated samples, 208, will be sufficient to determine the presence or absence of residual contaminants; and
- Lack of nearby sensitive receptors

We believe the sampling variance poses no additional risk to fresh water, public health, and the environment. With the additional data provided will you please consider approval of a variance of the sampling frequency from the required 200 square feet to 400 square feet?

Thank you

**Colton Brown**  
Spill Coordinator

**ExxonMobil Upstream Company**  
3104 E. Greene St.  
Carlsbad, NM 88220  
Cell Phone: 575-988-2390  
[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)



## APPENDIX E

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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December 26, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 12/20/24 10:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	12/20/2024	Sampling Date:	12/16/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 30-19 BS 154H	Sampling Condition:	Cool & Intact
Project Number:	03C1558583	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.107150,-103.817460		

**Sample ID: PH 01 0.5 (H247716-01)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.789</b>	0.200	12/24/2024	ND	2.08	104	2.00	3.84	
<b>Toluene*</b>	<b>19.7</b>	0.200	12/24/2024	ND	2.08	104	2.00	3.30	
<b>Ethylbenzene*</b>	<b>5.52</b>	0.200	12/24/2024	ND	2.09	104	2.00	3.47	
<b>Total Xylenes*</b>	<b>74.3</b>	0.600	12/24/2024	ND	6.27	104	6.00	2.68	
<b>Total BTEX</b>	<b>100</b>	1.20	12/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 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
<b>Chloride</b>	<b>7600</b>	16.0	12/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1190</b>	10.0	12/20/2024	ND	199	99.5	200	2.07	
<b>DRO &gt;C10-C28*</b>	<b>3260</b>	10.0	12/20/2024	ND	200	100	200	5.70	
<b>EXT DRO &gt;C28-C36</b>	<b>350</b>	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 195 % 48.2-134

Surrogate: 1-Chlorooctadecane 159 % 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: 12/20/2024  
Reported: 12/26/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 01A 1 (H247716-02)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/24/2024	ND	2.08	104	2.00	3.84	
Toluene*	5.85	0.100	12/24/2024	ND	2.08	104	2.00	3.30	
Ethylbenzene*	2.16	0.100	12/24/2024	ND	2.09	104	2.00	3.47	
Total Xylenes*	36.0	0.300	12/24/2024	ND	6.27	104	6.00	2.68	
Total BTEX	44.0	0.600	12/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 168 % 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	10500	16.0	12/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1120	10.0	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	3920	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	463	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 185 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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: 12/20/2024  
Reported: 12/26/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 01B 2 (H247716-03)**

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	12/24/2024	ND	2.08	104	2.00	3.84	
Toluene*	<0.050	0.050	12/24/2024	ND	2.08	104	2.00	3.30	
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.09	104	2.00	3.47	
<b>Total Xylenes*</b>	<b>0.176</b>	0.150	12/24/2024	ND	6.27	104	6.00	2.68	
Total BTEX	<0.300	0.300	12/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8160	16.0	12/23/2024	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*	14.9	10.0	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	242	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	22.4	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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: 12/20/2024  
Reported: 12/26/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 02 0.5 (H247716-04)**

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	12/23/2024	ND	2.08	104	2.00	3.84		
Toluene*	<0.050	0.050	12/23/2024	ND	2.08	104	2.00	3.30		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.09	104	2.00	3.47		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.27	104	6.00	2.68		
Total BTEX	<0.300	0.300	12/23/2024	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	8000	16.0	12/23/2024	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	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	11.8	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 12/20/2024  
Reported: 12/26/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 02A 4 (H247716-05)**

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	12/23/2024	ND	2.08	104	2.00	3.84	
Toluene*	<0.050	0.050	12/23/2024	ND	2.08	104	2.00	3.30	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.09	104	2.00	3.47	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.27	104	6.00	2.68	
Total BTEX	<0.300	0.300	12/23/2024	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	2280	16.0	12/23/2024	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	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	21.8	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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: 12/20/2024  
Reported: 12/26/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 02B 6 (H247716-06)**

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	12/23/2024	ND	2.08	104	2.00	3.84		
Toluene*	<0.050	0.050	12/23/2024	ND	2.08	104	2.00	3.30		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.09	104	2.00	3.47		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.27	104	6.00	2.68		
Total BTEx	<0.300	0.300	12/23/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/23/2024	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	12/20/2024	ND	192	95.9	200	0.259	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	186	92.8	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:

Ensolum, LLC

Project Manager:

Tracy Hillard

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: 337 257-8307

Fax #:

Project #: 03C1558583

Project Owner: XTO

Project Name: Poker Lake Unit 30-19 BS 154H

Project Location:

Sampler Name:

Connor Whitman

FOR LAB USE ONLY

## BILL TO

## ANALYSIS REQUEST

P.O. #:

Company: XTO Energy Inc.

Attn: Colton Brown

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Depth  
(feet)

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX

TPH

CHLORIDE

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Relinquished By:

Date: 12-20-24

Received By:

Time: 1004

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

THillard@ensolum.com, TMorissey@ensolum.com, kthomason@ensolum.com

Relinquished By:

Date: 12-20-24

Received By:

Time: 1004

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

THillard@ensolum.com, TMorissey@ensolum.com, kthomason@ensolum.com

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp.: 3.7

Corrected Temp.: 2.1

Sample Condition

Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: Standard

Thermometer ID: #443

Correction Factor: -0.5C

Bacteria (only) ☒ Yes ☐ NoCool Intact ☒ Yes ☐ No

Sample Condition

Observed Temp.: 3.7

Corrected Temp.: 2.1

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





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

---

February 06, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 02/03/25 12:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 30-19 BS 154H	Sampling Condition:	Cool & Intact
Project Number:	03C1558583	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.107150,-103.817460		

**Sample ID: PH 01C 5' (H250608-01)**

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	02/04/2025	ND	1.99	99.4	2.00	5.45		
Toluene*	<0.050	0.050	02/04/2025	ND	2.13	106	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.06	103	2.00	5.14		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.44	107	6.00	5.56		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	224	16.0	02/04/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	189	94.6	200	0.606	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	191	95.3	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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

---

### 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

Page 4 of 4





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

---

December 19, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 12/17/24 13:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/17/2024	Sampling Date:	12/16/2024
Reported:	12/19/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 30-19 BS 154H	Sampling Condition:	Cool & Intact
Project Number:	03C1558583	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 03 0.5' (H247607-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.51</b>	2.00	12/17/2024	ND	2.22	111	2.00	3.89	
<b>Toluene*</b>	<b>60.6</b>	2.00	12/17/2024	ND	2.10	105	2.00	4.11	
<b>Ethylbenzene*</b>	<b>15.9</b>	2.00	12/17/2024	ND	2.07	104	2.00	4.11	
<b>Total Xylenes*</b>	<b>218</b>	6.00	12/17/2024	ND	6.13	102	6.00	4.08	
<b>Total BTX</b>	<b>297</b>	12.0	12/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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
<b>Chloride</b>	<b>16000</b>	16.0	12/18/2024	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	
<b>GRO C6-C10*</b>	<b>7470</b>	50.0	12/18/2024	ND	198	98.8	200	2.56		
<b>DRO &gt;C10-C28*</b>	<b>13200</b>	50.0	12/18/2024	ND	181	90.3	200	3.06		
<b>EXT DRO &gt;C28-C36</b>	<b>1370</b>	50.0	12/18/2024	ND						

Surrogate: 1-Chlorooctane 870 % 48.2-134

Surrogate: 1-Chlorooctadecane 220 % 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: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 03 A 3' (H247607-02)**

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	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	0.113	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTEx	<0.300	0.300	12/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/18/2024	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	12/17/2024	ND	216	108	200	2.86	
<b>DRO &gt;C10-C28*</b>	<b>25.3</b>	10.0	12/17/2024	ND	210	105	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 03 B 4' (H247607-03)**

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	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTEX	<0.300	0.300	12/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/18/2024	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	12/17/2024	ND	216	108	200	2.86	
DRO >C10-C28*	<10.0	10.0	12/17/2024	ND	210	105	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



1 of 1

**Sampler Name:** Connor Whitman

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



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December 19, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 12/17/24 13:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/17/2024	Sampling Date:	12/16/2024
Reported:	12/19/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 30-19 BS 154H	Sampling Condition:	Cool & Intact
Project Number:	03C1558583	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 04 0.5 (H247608-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2024	ND	2.22	111	2.00	3.89	
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11	
Ethylbenzene*	<b>0.058</b>	0.050	12/17/2024	ND	2.07	104	2.00	4.11	
<b>Total Xylenes*</b>	<b>0.765</b>	0.150	12/17/2024	ND	6.13	102	6.00	4.08	
<b>Total BTX</b>	<b>0.823</b>	0.300	12/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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
<b>Chloride</b>	<b>5730</b>	16.0	12/18/2024	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
<b>GRO C6-C10*</b>	<b>41.1</b>	10.0	12/17/2024	ND	216	108	200	2.86	
<b>DRO &gt;C10-C28*</b>	<b>991</b>	10.0	12/17/2024	ND	210	105	200	7.87	
<b>EXT DRO &gt;C28-C36</b>	<b>104</b>	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 104 % 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  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	12/17/2024	Sampling Date:	12/16/2024
Reported:	12/19/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 30-19 BS 154H	Sampling Condition:	Cool & Intact
Project Number:	03C1558583	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 04A 1 (H247608-02)**

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	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTEX	<0.300	0.300	12/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	12/18/2024	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	12/17/2024	ND	216	108	200	2.86	
DRO >C10-C28*	40.5	10.0	12/17/2024	ND	210	105	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 04B 2 (H247608-03)**

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	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTEX	<0.300	0.300	12/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/18/2024	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	12/17/2024	ND	216	108	200	2.86	
DRO >C10-C28*	46.7	10.0	12/17/2024	ND	210	105	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 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: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 04C 3 (H247608-04)**

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	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTEX	<0.300	0.300	12/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 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	448	16.0	12/18/2024	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	12/17/2024	ND	216	108	200	2.86	
DRO >C10-C28*	219	10.0	12/17/2024	ND	210	105	200	7.87	
EXT DRO >C28-C36	11.3	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 04D 4 (H247608-05)**

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	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTEX	<0.300	0.300	12/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/18/2024	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	12/17/2024	ND	216	108	200	2.86	
DRO >C10-C28*	47.5	10.0	12/17/2024	ND	210	105	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	12/17/2024	Sampling Date:	12/16/2024
Reported:	12/19/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 30-19 BS 154H	Sampling Condition:	Cool & Intact
Project Number:	03C1558583	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 04E 5 (H247608-06)**

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	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTEX	<0.300	0.300	12/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	12/18/2024	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	12/17/2024	ND	216	108	200	2.86	
DRO >C10-C28*	<10.0	10.0	12/17/2024	ND	210	105	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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Cardinal Laboratories

\*=Accredited Analyte

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

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

---

Caley D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

<b>(575) 393-2326 FAX (575) 393-2476</b>							<b>BILL TO</b>			<b>ANALYSIS REQUEST</b>													
<b>Company Name:</b>	Ensolum LLC						<b>P.O. #:</b>																
<b>Project Manager:</b>	Tracy Hilliard						<b>Company:</b>	XTO Energy Inc.															
<b>Address:</b>	3122 National Parks Hwy						<b>Attn:</b>	Colton Brown															
<b>City:</b>	Carlsbad						<b>State:</b>	NM	<b>Zip:</b>	88220													
<b>Phone #:</b>	337 257-8307						<b>Fax #:</b>																
<b>Project #:</b>	03C1558583						<b>Project Owner:</b>	XTO															
<b>Project Name:</b>	Poker Lake Unit 30-19 BS 154H						<b>City:</b>	Carlsbad															
<b>Project Location:</b>							<b>State:</b>	NM	<b>Zip:</b>	88220													
<b>Sampler Name:</b>	Connor Whitman						<b>Phone #:</b>																
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	✓	DATE	TIME	BTEX	TPH	CHLORIDE							
HSA7608	PH04	0-5	G 2									12-16-24	1435										
1	PH04A	1											1440										
2	PH04B	2											1445										
3	PH04C	3											1450										
4	PH04D	4											1455										
5	PH04E	5											1510										
<p><b>PLEASE NOTE:</b> Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																							
<b>Relinquished By:</b>													<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Add'l Phone #:										
Date: 12-17-24 Time: 1348													Received By: [Signature] All Results are emailed. Please provide Email address: THilliard@ensolum.com, TMorrissey@ensolum.com, khomason@ensolum.com										
<b>Reinquinshed By:</b>													<b>REMARKS:</b> Cost Center: 2258891001 Incident ID: nAPP2434530896										
Date: _____ Time: _____																							
<b>Delivered By: (Circle One)</b>				<b>Observed Temp.: °C</b>				<b>Sample Condition</b>				<b>CHECKED BY:</b>				<b>Turnaround Time:</b>							
Sampler - UPS - Bus - Other:				Corrected Temp. °C				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				(Initials) [Signature]				Standard Rush <input checked="" type="checkbox"/> Thermometer ID #446 486w Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C							



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

---

December 19, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 12/17/24 13:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	12/17/2024	Sampling Date:	12/16/2024
Reported:	12/19/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 30-19 BS 154H	Sampling Condition:	Cool & Intact
Project Number:	03C1558583	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 05 0.5 (H247606-01)**

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	12/17/2024	ND	2.22	111	2.00	3.89	
<b>Toluene*</b>	<b>0.089</b>	0.050	12/17/2024	ND	2.10	105	2.00	4.11	
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11	
<b>Total Xylenes*</b>	<b>0.676</b>	0.150	12/17/2024	ND	6.13	102	6.00	4.08	QM-07
<b>Total BTEX</b>	<b>0.876</b>	0.300	12/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5460</b>	16.0	12/18/2024	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
<b>GRO C6-C10*</b>	<b>15.3</b>	10.0	12/17/2024	ND	198	98.8	200	2.56	
<b>DRO &gt;C10-C28*</b>	<b>198</b>	10.0	12/17/2024	ND	181	90.3	200	3.06	
<b>EXT DRO &gt;C28-C36</b>	<b>20.6</b>	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 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

**Analytical Results For:**

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

Received: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05A 1 (H247606-02)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2024	ND	2.22	111	2.00	3.89	
Toluene*	<b>0.774</b>	0.050	12/17/2024	ND	2.10	105	2.00	4.11	
Ethylbenzene*	<b>0.330</b>	0.050	12/17/2024	ND	2.07	104	2.00	4.11	
Total Xylenes*	<b>5.24</b>	0.150	12/17/2024	ND	6.13	102	6.00	4.08	
Total BTEX	<b>6.34</b>	0.300	12/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 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	<b>2960</b>	16.0	12/18/2024	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*	<b>114</b>	10.0	12/17/2024	ND	198	98.8	200	2.56	
DRO >C10-C28*	<b>720</b>	10.0	12/17/2024	ND	181	90.3	200	3.06	
EXT DRO >C28-C36	<b>78.4</b>	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 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: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05B 2 (H247606-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTX	<0.300	0.300	12/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/18/2024	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	12/17/2024	ND	198	98.8	200	2.56	
DRO >C10-C28*	<10.0	10.0	12/17/2024	ND	181	90.3	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

---

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

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





1 of 1

[illegible]

Relinquished By:

Date: 12/21/ Received By:

Verbal Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
----------------	------------------------------	-----------------------------	----------------

**All Results are emailed. Please provide Email address:**

THillard@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com

REMARKS: Cost Center: 2258891001 Incident ID: nAPP2434530896

Delivered By: (Circle One)

Observed Temp. °C 22

Sample Condition

**CHECKED BY:**

Turnaround Time: Standard

☐ Bacteria (only) Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C 27

☒ Yes ☒ Yes

10

Thermometer ID ~~#113~~ 481

☐ Yes ☐ Yes

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



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

---

December 19, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 12/17/24 13:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	12/17/2024	Sampling Date:	12/16/2024
Reported:	12/19/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 30-19 BS 154H	Sampling Condition:	Cool & Intact
Project Number:	03C1558583	Sample Received By:	Tamara Oldaker
Project Location:	XTO		

**Sample ID: PH 05 C 3' (H247609-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTX	<0.300	0.300	12/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/18/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2024	ND	216	108	200	2.86	
DRO >C10-C28*	<10.0	10.0	12/17/2024	ND	210	105	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05 D 4' (H247609-02)**

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	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
<b>Total Xylenes*</b>	<b>0.151</b>	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTEX	<0.300	0.300	12/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	12/18/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2024	ND	198	99.0	200	5.66	
<b>DRO &gt;C10-C28*</b>	<b>63.2</b>	10.0	12/17/2024	ND	212	106	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05 E 5' (H247609-03)**

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	12/17/2024	ND	2.22	111	2.00	3.89	
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11	
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11	
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08	
Total BTEX	<0.300	0.300	12/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	12/18/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2024	ND	198	99.0	200	5.66	
DRO >C10-C28*	135	10.0	12/17/2024	ND	212	106	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05 F 6' (H247609-04)**

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	12/17/2024	ND	2.22	111	2.00	3.89	
Toluene*	<b>0.119</b>	0.050	12/17/2024	ND	2.10	105	2.00	4.11	GC-NC1
Ethylbenzene*	<b>0.105</b>	0.050	12/17/2024	ND	2.07	104	2.00	4.11	GC-NC1
Total Xylenes*	<b>1.49</b>	0.150	12/17/2024	ND	6.13	102	6.00	4.08	
Total BTEX	<b>1.71</b>	0.300	12/17/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>1230</b>	16.0	12/18/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>70.9</b>	10.0	12/17/2024	ND	198	99.0	200	5.66	
DRO >C10-C28*	<b>610</b>	10.0	12/17/2024	ND	212	106	200	12.3	
EXT DRO >C28-C36	<b>48.6</b>	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05 G 7' (H247609-05)**

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	12/17/2024	ND	2.22	111	2.00	3.89	
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11	
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11	
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08	
Total BTEX	<0.300	0.300	12/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/18/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2024	ND	198	99.0	200	5.66	
DRO >C10-C28*	175	10.0	12/17/2024	ND	212	106	200	12.3	
EXT DRO >C28-C36	15.8	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05 H 8' (H247609-06)**

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	12/17/2024	ND	2.22	111	2.00	3.89		
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11		
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11		
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08		
Total BTEX	<0.300	0.300	12/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	12/18/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2024	ND	198	99.0	200	5.66	
DRO >C10-C28*	106	10.0	12/17/2024	ND	212	106	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 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: 12/17/2024  
Reported: 12/19/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO

Sampling Date: 12/16/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05 I 9' (H247609-07)**

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	12/17/2024	ND	2.22	111	2.00	3.89	
Toluene*	<0.050	0.050	12/17/2024	ND	2.10	105	2.00	4.11	
Ethylbenzene*	<0.050	0.050	12/17/2024	ND	2.07	104	2.00	4.11	
Total Xylenes*	<0.150	0.150	12/17/2024	ND	6.13	102	6.00	4.08	
Total BTEx	<0.300	0.300	12/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/18/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2024	ND	198	99.0	200	5.66	
DRO >C10-C28*	<10.0	10.0	12/17/2024	ND	212	106	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	12/17/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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December 23, 2024

TACOMA MORRISSEY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 12/19/24 14:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 06 (H247671-01)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2	
<b>Toluene*</b>	<b>1.43</b>	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2	
<b>Ethylbenzene*</b>	<b>0.419</b>	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5	
<b>Total Xylenes*</b>	<b>7.38</b>	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8	
<b>Total BTEX</b>	<b>9.23</b>	0.300	12/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1060</b>	16.0	12/20/2024	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
<b>GRO C6-C10*</b>	<b>180</b>	10.0	12/20/2024	ND	199	99.5	200	2.07	QM-07
<b>DRO &gt;C10-C28*</b>	<b>619</b>	10.0	12/20/2024	ND	200	100	200	5.70	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>55.0</b>	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 114 % 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  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 06B (H247671-02)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2024	ND	1.78	89.2	2.00	15.2	
Toluene*	2.25	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2	
Ethylbenzene*	0.650	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5	
Total Xylenes*	11.6	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8	
Total BTX	14.5	0.300	12/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500CI-B			mg/kg					Analyzed By: KV	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	12/20/2024	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*	295	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	946	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	93.9	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 128 % 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  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 06D (H247671-03)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	0.091	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	0.729	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEX	0.820	0.300	12/20/2024	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	128	16.0	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.2	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	216	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	14.6	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 06F (H247671-04)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	<0.050	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEX	<0.300	0.300	12/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 06H (H247671-05)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	<0.050	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEx	<0.300	0.300	12/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 06J (H247671-06)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	<0.050	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTX	<0.300	0.300	12/20/2024	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	112	16.0	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	31.0	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 06L (H247671-07)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	<0.050	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEX	<0.300	0.300	12/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	176	16.0	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 07 (H247671-08)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2	
Toluene*	115	2.00	12/20/2024	ND	1.77	88.3	2.00	17.2	
Ethylbenzene*	35.4	2.00	12/20/2024	ND	1.86	93.0	2.00	17.5	
Total Xylenes*	547	6.00	12/20/2024	ND	5.47	91.2	6.00	18.8	
Total BTEX	697	12.0	12/20/2024	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	80.0	16.0	12/20/2024	ND	416	104	400	7.41		

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*	15900	100	12/21/2024	ND	199	99.5	200	2.07		
DRO >C10-C28*	32400	100	12/21/2024	ND	200	100	200	5.70		
EXT DRO >C28-C36	3200	100	12/21/2024	ND						

Surrogate: 1-Chlorooctane 475 % 48.2-134

Surrogate: 1-Chlorooctadecane 508 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 07B (H247671-09)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	35.4	2.00	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	11.5	2.00	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	186	6.00	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEX	233	12.0	12/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	12/20/2024	ND	416	104	400	7.41		

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*	3850	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	8950	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	968	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 299 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 07F (H247671-10)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2	
Toluene*	0.069	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2	
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5	
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8	
Total BTEx	<0.300	0.300	12/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 07I (H247671-11)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	<0.050	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEX	<0.300	0.300	12/20/2024	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	48.0	16.0	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

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

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 08 (H247671-12)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2024	ND	1.78	89.2	2.00	15.2	
Toluene*	<b>1.98</b>	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2	
Ethylbenzene*	<b>0.778</b>	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5	
Total Xylenes*	<b>13.9</b>	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8	
Total BTEX	<b>16.6</b>	0.300	12/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 190 % 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	<b>3080</b>	16.0	12/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>296</b>	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	<b>1630</b>	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<b>160</b>	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 150 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 08C (H247671-13)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	<0.050	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEx	<0.300	0.300	12/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 08D (H247671-14)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	<0.050	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEx	<0.300	0.300	12/20/2024	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	32.0	16.0	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	33.4	10.0	12/21/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	12/21/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 08H (H247671-15)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	<0.050	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
<b>Total Xylenes*</b>	<b>0.263</b>	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEX	<0.300	0.300	12/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.7	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	205	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	20.9	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
TACOMA MORRISSEY  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 12/19/2024  
Reported: 12/23/2024  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 12/17/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 08K (H247671-16)**

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	12/20/2024	ND	1.78	89.2	2.00	15.2		
Toluene*	<0.050	0.050	12/20/2024	ND	1.77	88.3	2.00	17.2		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.86	93.0	2.00	17.5		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.47	91.2	6.00	18.8		
Total BTEx	<0.300	0.300	12/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	12/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	199	99.5	200	2.07	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	200	100	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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---

### 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-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

**BILL TO**

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 23

[illegible]





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

Project manager: Tacoma Morrissey

Address: 3122 National Parks Hwy

City: Carlsbad State: NM ZIP: 88220

Phone #: 337-257-8307

Project #: 03C1558583

Project Name: Poker Lake Unit 30-19 BS 154H

Project Location: 32.107150, -103.817460

Sampler Name: Uriel Santillana

Lab I.D.

Sample I.D.

PH06F  
PH06H  
PH06J  
PH06L

(G)RAB OR (C)OMP.  
# CONTAINERS  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER :  
ACID/BASE:  
ICE / COOL  
OTHER :  
DATE  
TIME

CHLORIDES  
TEMPERATURE  
BTEX

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Relinquished By:

Relinquished By:

Date: 12-19-24

Date: 12-19-24

Received By:

Received By:

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other:

Observed Temp. °C  
Corrected Temp. °C

Sample Condition  
Cool Intact  
☒ Yes ☐ No

CHECKED BY:  
(Initials)

Thermometer Time: Standard ☐ Bacteria (only) Sample Condition  
Cool Intact ☐ Observed Temp. °C  
Thermometer ID #140  
Correction Factor

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

REMARKS: Incident Number: nAP244530896 Cost Code: 2258891001

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum

Project manager: Tacoma Morrissey

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 337-257-8307

Project #: 03C1558583

Project Name: Poker Lake Unit 30-19 BS 154H

Project Location: 32.107150, -103.817460

Sampler Name: Uriel Santillana

FOR LAB USE ONLY  
Lab I.D.

BILL TO

P.O. #:

Company: XTO Energy

Attn: Colton Brown

Address: 3104 E Greene St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	CHLORIDES				
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			OTHER : ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
PHOT		1						12/17/24	1430	X	X	X		
PHOTB		1							1437					
PHOTF		1							1528					
PHOTI		1												

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Relinquished By: [Signature]

Date: 12-19-24

Time: 1415

Received By: [Signature]

Date: [Blank]

Time: [Blank]

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other:

Observed Temp. °C  
Corrected Temp. °C

Sample Condition  
Cool Intact  
☒ Yes ☐ No  
☐ No ☐ No

CHECKED BY: [Signature]

Turnaround Time: Standard ☐ Bacteria (only) Sample Condition  
Cool Intact ☐ Observed Temp. °C  
Thermometer ID #140  
Correction Factor: 0.62

Verbal Result: ☐ Yes ☐ No Add'l Phone #:  
timorrissey@ensolum.com thillard@ensolum.com khomason@ensolum.com usantillana@ensolum.com

REMARKS: Incident Number: nAP2434530896 Cost Code: 2258891001

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum

Project manager: Tacoma Morrissey

Address: 3122 National Parks Hwy

City: Carlsbad State: NM ZIP: 88220

Phone #: 337-257-8307

Project #: 03C1558583

Project Name: Poker Lake Unit 30-19 BS 154H

Project Location: 32.107150, -103.817460

Sampler Name: Uriel Santillana

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

PH08  
PH08C  
PH08D

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CHLORIDES

PH

BTEX

Standard

Bacteria (only) Sample Condition

Cost Code: 2258891001

Thermometer ID #140

Correction Factor

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

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Relinquished By:

Date: 12-19-24

Received By:

Date: 12-19-24

Received By:

Verbal Result:

Yes ☐ No ☐

Thilland@ensolum.com

khomason@ensolum.com

usanillana@ensolum.com

REMARKS: Incident Number: NAPP2434530896

Cost Code: 2258891001

Standard ☐ Bacteria (only) Sample Condition

Corrected Temp. °C

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool Intact

Checked BY: (Initials)

Turnaround Time:

Standard ☐ Bacteria (only) Sample Condition

Thermometer ID #140

Correction Factor

Corrected Temp. °C

Corrected Temp. °C

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Cool Intact

Checked BY: (Initials)

Turnaround Time:

Standard ☐ Bacteria (only) Sample Condition

Thermometer ID #140

Correction Factor

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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





**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Ensolum

**BILL TO**

**ANALYSIS REQUEST**

Project manager: Tacoma Morrissey

P.O. #: Company: XTO Energy

Address: 3122 National Parks Hwy

Attn: Colton Brown

City: Carlsbad State: NM ZIP: 88220

Address: 3104 E Greene St.

Phone #: 337-257-8307

City: Carlsbad

Project #: 03C1558583

State: NM Zip: 88220

Project Name: Poker Lake Unit 30-19 BS 154H

Phone #:

Project Location: 32. 107150, -103.817460

Fax #:

Sampler Name: Uriel Santilana

FOR LAB USE ONLY

MATRIX

PRESERV.

SAMPLING

Lab I.D.

Sample I.D.

PH247671

PH08H  
PH08K

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

12/17/24

1310

1413

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

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Relinquished By: *U.S. Army*

Date: 12-19-24

Received By: *Uriel Santilana*

Date: 12-19-24

Verbal Result: ☐ Yes ☐ No Add'l Phone #: *575-393-2326*

Relinquished By:

Date:

Received By:

Date:

REMARKS: Incident Number: nAPP2434530896 Cost Code: 2258891001

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other:

Observed Temp. °C  
Corrected Temp. °C

0.1  
-0.5

Sample Condition  
Cool ☒ Intact ☐  
No ☐ No ☐

CHECKED BY: (Initials)  
*JS*

Turnaround Time: Rush ☒ Standard ☐  
Thermometer ID #140  
Correction Factor -0.6°C

Backlog (only) Sample Condition  
Cool ☒ Intact ☐  
No ☐ No ☐

FORM-006 R 3.2 10/07/21

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



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

September 29, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 30 - 19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 09/25/25 13:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is 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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 09 0.5 (H255996-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2025	ND	1.92	96.0	2.00	0.688	
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.1 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 10 1 (H255996-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 85.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.9 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 11 1 (H255996-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.4 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 09A 2 (H255996-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 83.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.9 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 10A 2.5 (H255996-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.4 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 11A 2.5 (H255996-06)**

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	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.5 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 12 1 (H255996-07)**

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	09/26/2025	ND	1.92	96.0	2.00	0.688	
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825	
Total BTX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	512	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	91.7	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.5 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 13 1 (H255996-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.7 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 12A 2.5 (H255996-09)**

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	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.9 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 13A 2.5 (H255996-10)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/26/2025	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	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.9 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 14 1 (H255996-11)**

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	09/26/2025	ND	1.92	96.0	2.00	0.688		
<b>Toluene*</b>	<b>0.059</b>	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183	GC-NC1	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
<b>Total Xylenes*</b>	<b>0.292</b>	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825	GC-NC1	
<b>Total BTEX</b>	<b>0.351</b>	0.300	09/26/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>608</b>	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	196	98.0	200	0.622		
<b>DRO &gt;C10-C28*</b>	<b>56.1</b>	10.0	09/26/2025	ND	202	101	200	0.259		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 79.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.0 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 15 0.5 (H255996-12)**

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	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.7 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 16 0.5 (H255996-13)**

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	09/26/2025	ND	1.92	96.0	2.00	0.688		
Toluene*	<0.050	0.050	09/26/2025	ND	1.90	95.1	2.00	0.183		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.85	92.6	2.00	0.443		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.46	91.0	6.00	0.0825		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	141	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	17.7	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 80.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.1 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 14A 2.5 (H255996-14)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47	QM-07	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	13.8	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
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 MIDLAND TX, 79705  
 Fax To:

Received: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 15A 2 (H255996-15)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.1 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 16A 2 (H255996-16)**

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	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

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	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 79.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.0 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 17 0.5 (H255996-17)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/26/2025	ND	1.90	94.8	2.00	0.318	
Toluene*	<b>6.24</b>	0.500	09/26/2025	ND	1.98	98.9	2.00	1.92	GC-NC1
Ethylbenzene*	<b>7.87</b>	0.500	09/26/2025	ND	1.96	98.2	2.00	2.47	GC-NC1
Total Xylenes*	<b>111</b>	1.50	09/26/2025	ND	6.05	101	6.00	2.38	GC-NC1
Total BTEX	<b>125</b>	3.00	09/26/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 165 % 70.4-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>8400</b>	16.0	09/26/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>3140</b>	50.0	09/29/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<b>10900</b>	50.0	09/29/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<b>1250</b>	50.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 467 % 52.4-130

Surrogate: 1-Chlorooctadecane 227 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 18 0.5 (H255996-18)**

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	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 85.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.9 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 17A 2 (H255996-19)**

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	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	45.2	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.2 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 18A 2 (H255996-20)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2050	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	196	98.0	200	0.622	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	202	101	200	0.259	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 85.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.5 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 19 0.5 (H255996-21)**

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	09/26/2025	ND	1.90	94.8	2.00	0.318	
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	198	98.9	200	0.206	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	212	106	200	0.703	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.2 % 39.9-141

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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: 09/25/2025  
 Reported: 09/29/2025  
 Project Name: PLU 30 - 19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.108379, -103.817649

Sampling Date: 09/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: PH 19A 2 (H255996-22)**

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	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

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	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	198	98.9	200	0.206	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	212	106	200	0.703	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Ben Bejill <b>Address:</b> 601 N Marientfield Street, Suite 400 <b>City:</b> Midland <b>Phone #:</b> (989) 854-0852 <b>Project #:</b> 03C1558583 <b>Project Name:</b> PLU 30-19 BS 154H <b>Project Location:</b> 32.108379, -103.817649 <b>Sampler Name:</b> Trevor Wargo				<b>P.O. #:</b> <b>Company:</b> XTO Energy, Inc <b>Attn:</b> Cotton Brown <b>Address:</b> 3104 E Greene St <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> <b>Fax #:</b>			
<b>State:</b> TX <b>Zip:</b> 79701 <b>Fax #:</b> <b>Project Owner:</b> XTO Energy <b>- SPILLS</b> <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> <b>Fax #:</b>				<b>BILL TO</b> <b>ANALYSIS REQUEST</b>			
<b>Lab I.D.</b> HSS996		<b>Sample I.D.</b> PH 19 PH 14 PH 13 PH 14 PH 15 PH 16 PH 17 PH 18 PH 19 PH 18A		<b>Depth (feet)</b> 1 0.5 0.5 2.5 2 0.5 0.5 2 2 2		<b>(G)RAB OR (C)OMP.</b> G C C C C C C C C C	
<b># CONTAINERS</b> 1 1 1 1 1 1 1 1 1 1 1		<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		<b>PRESERV</b> DATE TIME		<b>SAMPLING</b> TPH 8015 BTEX 8021 Chloride 4500	
<b>Relinquished By:</b> Dave McElroy Date: 9/25/25 Time: 1:35		<b>Received By:</b> Spectrology Date: 9/25/25 Time: 1:35		<b>Turnaround Time:</b> 48hr <b>Thermometer ID:</b> #443 <b>Corrosion Factor:</b> 0.5°C <b>Standard:</b> <input checked="" type="checkbox"/> <b>Rush:</b> <input type="checkbox"/> <b>Bacteria (only):</b> <input checked="" type="checkbox"/> <b>Cool Intact:</b> <input checked="" type="checkbox"/> <b>Sample Condition:</b> <input checked="" type="checkbox"/> <b>Observed Temp. °C:</b> 0.4°C <b>Corrected Temp. °C:</b> 0.5°C		<b>Remarks:</b> Incident Number: nAPP2434530896 Cost Center: 2258891001 GFCM: 48605000 All Results are emailed. Please provide Email address: BBejill@ensolum.com, TMorrissey@ensolum.com, TThillard@ensolum.com, KThomasom@ensolum.com twargo@ensolum.com	





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

$$\begin{matrix} \omega \\ 1 \\ \omega \end{matrix}$$

<b>Company Name:</b> Ensolum, LLC						<b>BILL TO</b>						<b>ANALYSIS REQUEST</b>						
<b>Project Manager:</b> Ben Bejill						<b>P.O. #:</b>												
<b>Address:</b> 601 N Martenfield Street, Suite 400						<b>Company:</b> XTO Energy, Inc												
<b>City:</b> Midland						<b>Attn:</b> Colton Brown												
<b>State:</b> TX <b>Zip:</b> 79701						<b>Address:</b> 3104 E Greene St												
<b>Phone #:</b> (989) 854-0852 <b>Fax #:</b>						<b>City:</b> Carlsbad												
<b>Project #:</b> 03C1558583 <b>Project Owner:</b> XTO Energy						<b>- SPILLS</b>												
<b>Project Name:</b> PLU 30-19 BS 154H						<b>State:</b> NM <b>Zip:</b> 88220												
<b>Project Location:</b> 32.108379, -103.817649						<b>Phone #:</b>												
<b>Sampler Name:</b> Trevor Wargo						<b>Fax #:</b>												
<small>FOR LAB USE ONLY</small>																		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500						
HSS9910	PH 19	0.5	G	1	GROUNDWATER			09/24/25	14:16	↓	↓	↓						
31	PH 19A	2	R	1	WASTEWATER			14:59		↓	↓	↓						
					SOIL													
					OIL													
					SLUDGE													
					OTHER :													
					ACID/BASE:													
					ICE / COOL													
					OTHER :													
<p><b>PLEASE NOTE:</b> Liability and Damages. Cardinal's liability and clients' exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																		
<b>Relinquished By:</b>						<b>Date:</b> 9/25/25						<b>Received By:</b>						
<b>Relinquished By:</b>						<b>Time:</b> 1:35						<b>Signature:</b>						
<b>Date:</b>						<b>Received By:</b>												
<b>Time:</b>																		
<b>Observed Temp.: °C</b> 0.4						<b>Corrected Temp. °C</b> 0.7												
<b>Delivered By:</b> (Circle One)						<b>Sample Condition</b>						<b>CHECKED BY:</b> (Initials)						
<b>Sampler - UPS - Bus - Other:</b>						Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
						<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>						<b>Bacteria (only) Sample Condition</b>						
						<b>Thermometer ID #</b> 48HR <b>#</b> 413 <b>#</b> 140						<b>Cool Intact</b> <input type="checkbox"/> Yes <input type="checkbox"/> No						
						<b>Corrosion Factor</b> 95°C						<b>Observed Temp. °C</b>						
						<b>Cost Center:</b> 2258891001						<b>Corrected Temp. °C</b>						
						<b>REMARKS:</b> Incident Number: nAPP2434530896												
						<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>												
						<b>All Results are emailed. Please provide Email address:</b>												
						<b>BBejill@ensolum.com, TMorrissey@ensolum.com,</b>												
						<b>TJHillard@ensolum.com, KThomasom@ensolum.com,</b>												
						<b>twargo@ensolum.com</b>												



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

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March 13, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 02/18/25 13:50.

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

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 01 1'	H250951-01	Soil	17-Feb-25 11:35	18-Feb-25 13:50
FS 02 1'	H250951-02	Soil	17-Feb-25 11:50	18-Feb-25 13:50
FS 03 1'	H250951-03	Soil	17-Feb-25 12:05	18-Feb-25 13:50
FS 04 1'	H250951-04	Soil	17-Feb-25 11:48	18-Feb-25 13:50
FS 05 1'	H250951-05	Soil	17-Feb-25 11:42	18-Feb-25 13:50
FS 06 1'	H250951-06	Soil	17-Feb-25 11:54	18-Feb-25 13:50
FS 07 1'	H250951-07	Soil	17-Feb-25 12:00	18-Feb-25 13:50
FS 08 1'	H250951-08	Soil	17-Feb-25 12:10	18-Feb-25 13:50
FS 09 1'	H250951-09	Soil	17-Feb-25 12:20	18-Feb-25 13:50
FS 10 1'	H250951-10	Soil	17-Feb-25 12:17	18-Feb-25 13:50
FS 11 1'	H250951-11	Soil	17-Feb-25 12:35	18-Feb-25 13:50
FS 12 1'	H250951-12	Soil	17-Feb-25 13:30	18-Feb-25 13:50
FS 13 1'	H250951-13	Soil	17-Feb-25 13:45	18-Feb-25 13:50
FS 14 1'	H250951-14	Soil	17-Feb-25 14:05	18-Feb-25 13:50
FS 15 1'	H250951-15	Soil	17-Feb-25 14:44	18-Feb-25 13:50

03/13/25 - Client changed the sample depths (see COC). This is the revised report and will replace the one sent on 02/19/25.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 01 1'**  
**H250951-01 (Soil)**

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

<b>Chloride</b>	<b>944</b>		16.0	mg/kg	4	5021921	AC	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Toluene*	<b>1.22</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>1.19</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total Xylenes*	<b>22.1</b>		0.150	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total BTEX	<b>24.6</b>		0.300	mg/kg	50	5021852	JH	19-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134 5021852 JH 19-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>620</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	
DRO >C10-C28*	<b>7920</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	QM-07
EXT DRO >C28-C36	<b>1080</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	

Surrogate: 1-Chlorooctane 233 % 48.2-134 5021855 MS 18-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 142 % 49.1-148 5021855 MS 18-Feb-25 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 02 1'**  
**H250951-02 (Soil)**

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

<b>Chloride</b>	<b>1200</b>		16.0	mg/kg	4	5021921	AC	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Toluene*	<b>0.237</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.576</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total Xylenes*	<b>7.62</b>		0.150	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total BTEX	<b>8.44</b>		0.300	mg/kg	50	5021852	JH	19-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134 5021852 JH 19-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>218</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4080</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>574</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	

Surrogate: 1-Chlorooctane 118 % 48.2-134 5021855 MS 18-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148 5021855 MS 18-Feb-25 8015B

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 03 1'**  
**H250951-03 (Soil)**

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

<b>Chloride</b>	<b>1340</b>		16.0	mg/kg	4	5021921	AC	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Toluene*	<b>0.154</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.398</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total Xylenes*	<b>6.25</b>		0.150	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total BTEX	<b>6.80</b>		0.300	mg/kg	50	5021852	JH	19-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134 5021852 JH 19-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>252</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4090</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>558</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	

Surrogate: 1-Chlorooctane 120 % 48.2-134 5021855 MS 18-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148 5021855 MS 18-Feb-25 8015B

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 04 1'**  
**H250951-04 (Soil)**

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

<b>Chloride</b>	<b>640</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Toluene*	<b>0.615</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.766</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total Xylenes*	<b>11.5</b>		0.150	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total BTEX	<b>12.9</b>		0.300	mg/kg	50	5021852	JH	19-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134 5021852 JH 19-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>330</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2850</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>377</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	

Surrogate: 1-Chlorooctane 114 % 48.2-134 5021855 MS 18-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148 5021855 MS 18-Feb-25 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 05 1'**  
**H250951-05 (Soil)**

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

<b>Chloride</b>	<b>368</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.200		0.200	mg/kg	200	5021852	JH	19-Feb-25	8021B	
Toluene*	<b>3.23</b>		0.200	mg/kg	200	5021852	JH	19-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>3.30</b>		0.200	mg/kg	200	5021852	JH	19-Feb-25	8021B	
Total Xylenes*	<b>56.1</b>		0.600	mg/kg	200	5021852	JH	19-Feb-25	8021B	
Total BTEX	<b>62.7</b>		1.20	mg/kg	200	5021852	JH	19-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 157 % 71.5-134 5021852 JH 19-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>1080</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5520</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>649</b>		10.0	mg/kg	1	5021855	MS	18-Feb-25	8015B	

Surrogate: 1-Chlorooctane 235 % 48.2-134 5021855 MS 18-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 108 % 49.1-148 5021855 MS 18-Feb-25 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 06 1'**  
**H250951-06 (Soil)**

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

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Ethylbenzene*	<b>0.052</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.714</b>		0.150	mg/kg	50	5021852	JH	19-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.766</b>		0.300	mg/kg	50	5021852	JH	19-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		156 %		71.5-134		5021852	JH	19-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>24.2</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>625</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>82.1</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane		86.8 %		48.2-134		5021855	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		83.7 %		49.1-148		5021855	MS	19-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 07 1'**  
**H250951-07 (Soil)**

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

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021852	JH	19-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			125 %	71.5-134		5021852	JH	19-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.6 %	48.2-134		5021855	MS	19-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.2 %	49.1-148		5021855	MS	19-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 08 1'**  
**H250951-08 (Soil)**

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

<b>Chloride</b>	<b>288</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
Ethylbenzene*	<b>0.052</b>		0.050	mg/kg	50	5021852	JH	19-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.611</b>		0.150	mg/kg	50	5021852	JH	19-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.662</b>		0.300	mg/kg	50	5021852	JH	19-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		153 %		71.5-134		5021852	JH	19-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>27.9</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>709</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>78.7</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane		91.1 %		48.2-134		5021855	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		86.9 %		49.1-148		5021855	MS	19-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 09 1'**  
**H250951-09 (Soil)**

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

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.285</b>		0.150	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021858	JH	19-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	5021858	JH	19-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>16.1</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>464</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>50.4</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			78.2 %		48.2-134	5021855	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			76.5 %		49.1-148	5021855	MS	19-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 10 1'**  
**H250951-10 (Soil)**

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

<b>Chloride</b>	<b>784</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Toluene*	<b>0.089</b>		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.187</b>		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Total Xylenes*	<b>3.02</b>		0.150	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Total BTEX	<b>3.29</b>		0.300	mg/kg	50	5021858	JH	19-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134 5021858 JH 19-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>72.4</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>770</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>81.3</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane 90.5 % 48.2-134 5021855 MS 19-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148 5021855 MS 19-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 11 1'**  
**H250951-11 (Soil)**

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

<b>Chloride</b>	<b>4400</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Toluene*	<b>0.441</b>		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.603</b>		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Total Xylenes*	<b>10.1</b>		0.150	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Total BTEX	<b>11.1</b>		0.300	mg/kg	50	5021858	JH	19-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 206 % 71.5-134 5021858 JH 19-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>268</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4430</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>602</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane 116 % 48.2-134 5021855 MS 19-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148 5021855 MS 19-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 12 1'**  
**H250951-12 (Soil)**

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

<b>Chloride</b>	<b>1620</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Toluene*	<b>0.083</b>		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.167</b>		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Total Xylenes*	<b>2.20</b>		0.150	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Total BTEX	<b>2.45</b>		0.300	mg/kg	50	5021858	JH	19-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134 5021858 JH 19-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>75.4</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2210</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>320</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane 83.9 % 48.2-134 5021855 MS 19-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148 5021855 MS 19-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 13 1'**  
**H250951-13 (Soil)**

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

<b>Chloride</b>	<b>400</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.335</b>		0.150	mg/kg	50	5021858	JH	19-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.335</b>		0.300	mg/kg	50	5021858	JH	19-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %		71.5-134	5021858	JH	19-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>14.8</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1270</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>189</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			82.5 %		48.2-134	5021855	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			83.1 %		49.1-148	5021855	MS	19-Feb-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 14 1'**  
**H250951-14 (Soil)**

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

<b>Chloride</b>	<b>3360</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Ethylbenzene*	<b>0.055</b>		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.629</b>		0.150	mg/kg	50	5021858	JH	19-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.684</b>		0.300	mg/kg	50	5021858	JH	19-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			127 %		71.5-134	5021858	JH	19-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>21.9</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1900</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>267</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			94.6 %		48.2-134	5021855	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			95.3 %		49.1-148	5021855	MS	19-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**FS 15 1'**  
**H250951-15 (Soil)**

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

<b>Chloride</b>	<b>768</b>		16.0	mg/kg	4	5021865	HM	19-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021858	JH	19-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021858	JH	19-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5021858	JH	19-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
DRO >C10-C28*	<b>120</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<b>15.6</b>		10.0	mg/kg	1	5021855	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			75.8 %	48.2-134		5021855	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			78.0 %	49.1-148		5021855	MS	19-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5021865 - 1:4 DI Water****Blank (5021865-BLK1)**

Prepared &amp; Analyzed: 19-Feb-25

Chloride	ND	16.0	mg/kg							
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**LCS (5021865-BS1)**

Prepared &amp; Analyzed: 19-Feb-25

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (5021865-BSD1)**

Prepared &amp; Analyzed: 19-Feb-25

Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	
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**Batch 5021921 - 1:4 DI Water****Blank (5021921-BLK1)**

Prepared &amp; Analyzed: 19-Feb-25

Chloride	ND	16.0	mg/kg							
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**LCS (5021921-BS1)**

Prepared &amp; Analyzed: 19-Feb-25

Chloride	400	16.0	mg/kg	400		100	80-120			
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**LCS Dup (5021921-BSD1)**

Prepared &amp; Analyzed: 19-Feb-25

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5021852 - Volatiles****Blank (5021852-BLK1)**

Prepared &amp; Analyzed: 18-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0602		mg/kg	0.0500		120	71.5-134			

**LCS (5021852-BS1)**

Prepared &amp; Analyzed: 18-Feb-25

Benzene	2.00	0.050	mg/kg	2.00		99.9	82.8-130			
Toluene	2.07	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.42	0.100	mg/kg	4.00		110	89-129			
o-Xylene	2.24	0.050	mg/kg	2.00		112	86.1-125			
Total Xylenes	6.66	0.150	mg/kg	6.00		111	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0544		mg/kg	0.0500		109	71.5-134			

**LCS Dup (5021852-BSD1)**

Prepared &amp; Analyzed: 18-Feb-25

Benzene	1.91	0.050	mg/kg	2.00		95.4	82.8-130	4.58	15.8	
Toluene	1.98	0.050	mg/kg	2.00		99.0	86-128	4.72	15.9	
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	85.9-128	4.27	16	
m,p-Xylene	4.22	0.100	mg/kg	4.00		106	89-129	4.56	16.2	
o-Xylene	2.13	0.050	mg/kg	2.00		107	86.1-125	4.70	16.7	
Total Xylenes	6.36	0.150	mg/kg	6.00		106	88.2-128	4.61	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	71.5-134			

**Batch 5021858 - Volatiles****Blank (5021858-BLK1)**

Prepared: 18-Feb-25 Analyzed: 19-Feb-25

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

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5021858 - Volatiles****Blank (5021858-BLK1)**

Prepared: 18-Feb-25 Analyzed: 19-Feb-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	71.5-134			

**LCS (5021858-BS1)**

Prepared: 18-Feb-25 Analyzed: 19-Feb-25

Benzene	1.92	0.050	mg/kg	2.00		96.1	82.8-130			
Toluene	2.02	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.29	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.17	0.050	mg/kg	2.00		109	86.1-125			
Total Xylenes	6.46	0.150	mg/kg	6.00		108	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0544		mg/kg	0.0500		109	71.5-134			

**LCS Dup (5021858-BSD1)**

Prepared: 18-Feb-25 Analyzed: 19-Feb-25

Benzene	1.93	0.050	mg/kg	2.00		96.6	82.8-130	0.544	15.8	
Toluene	2.04	0.050	mg/kg	2.00		102	86-128	0.967	15.9	
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	85.9-128	0.881	16	
m,p-Xylene	4.35	0.100	mg/kg	4.00		109	89-129	1.42	16.2	
o-Xylene	2.20	0.050	mg/kg	2.00		110	86.1-125	1.17	16.7	
Total Xylenes	6.55	0.150	mg/kg	6.00		109	88.2-128	1.34	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	71.5-134			

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:19

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5021855 - General Prep - Organics****Blank (5021855-BLK1)**

Prepared &amp; Analyzed: 18-Feb-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.7		mg/kg	50.0		77.4	48.2-134			
Surrogate: 1-Chlorooctadecane	36.8		mg/kg	50.0		73.6	49.1-148			

**LCS (5021855-BS1)**

Prepared &amp; Analyzed: 18-Feb-25

GRO C6-C10	179	10.0	mg/kg	200		89.3	81.5-123			
DRO >C10-C28	175	10.0	mg/kg	200		87.3	77.7-122			
Total TPH C6-C28	353	10.0	mg/kg	400		88.3	80.9-121			
Surrogate: 1-Chlorooctane	42.9		mg/kg	50.0		85.8	48.2-134			
Surrogate: 1-Chlorooctadecane	39.2		mg/kg	50.0		78.4	49.1-148			

**LCS Dup (5021855-BS1)**

Prepared &amp; Analyzed: 18-Feb-25

GRO C6-C10	181	10.0	mg/kg	200		90.5	81.5-123	1.28	13	
DRO >C10-C28	178	10.0	mg/kg	200		88.8	77.7-122	1.79	15.6	
Total TPH C6-C28	359	10.0	mg/kg	400		89.7	80.9-121	1.53	18.5	
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.6	48.2-134			
Surrogate: 1-Chlorooctadecane	40.3		mg/kg	50.0		80.5	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-2

Company Name: Ensolum, LLC

Project Manager: Ben Bellill

Address: 601 N Marientfeld Street, suite 400

City: Midland

State: TX Zip: 79701

Phone #: 989-854-0852

Fax #:

Project #: 03C1558583

Project Owner:

Project Name: Poker Lake Unit 30-19 BS 154H

Project Location: 32.107150, -103.817460

Sampler Name: Uriel Santillana

BILL TO

P.O. #:

Company: XTO Energy

Attn: Colton Brown

Address:

City:

State: NM Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Project Manager: Ben Beilli											P.O. #:
Address: 601 N Marientfeld Street, suite 400											Company: XTO Energy
City: Midland											Attn: Colton Brown
State: TX Zip: 79701											Address:
Phone #: 989-854-0852 Fax #:											City:
Project #: 03C1558583 Project Owner:											State: NM Zip:
Project Name: Poker Lake Unit 30-19 BS 154H											Phone #:
Project Location: 32.107150, -103.817460											Fax #:
Sampler Name: Uriel Santillana											SAMPLING
FOR LAB USE ONLY											MATRIX
Lab I.D.											PRESERV.
Sample I.D.											DATE
Depth (feet)											TIME
(G)RAB OR (C)OMP.											DATE
# CONTAINERS											TIME
GROUNDWATER											DATE
WASTEWATER											TIME
SOIL											DATE
OIL											TIME
SLUDGE											DATE
OTHER :											TIME
ACID/BASE:											DATE
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Relinquished By: *[Signature]* Date: 2-18-25 Received By: *[Signature]* Date: 2-18-25

Relinquished By: *[Signature]* Date: 2-18-25 Received By: *[Signature]* Date: 2-18-25

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: ☐ Observed Temp. °C: -0.9 Corrected Temp. °C: -0.6

Sample Condition: ☒ Intact ☐ Broken ☐ Yes ☐ No ☐ Yes ☐ No

Checked By: *[Signature]* (initials) *[Signature]* Turnaround Time: 24 hr Standard ☒ Bacteria (only) ☐ Sample Condition: ☒ Intact ☐ Broken ☐ Yes ☐ No ☐ Yes ☐ No

REMARKS: \*Customer Reg. Depth Change 3/12/25  
Cost Code: 2258891001 Incident Number NAPP2434530896

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





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/12/25

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

---

March 13, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 02/20/25 14:02.

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

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 16 1'	H251009-01	Soil	18-Feb-25 09:40	20-Feb-25 14:02
FS 17 1'	H251009-02	Soil	18-Feb-25 10:00	20-Feb-25 14:02
FS 18 1'	H251009-03	Soil	18-Feb-25 10:15	20-Feb-25 14:02
FS 19 1'	H251009-04	Soil	18-Feb-25 10:30	20-Feb-25 14:02
FS 20 1'	H251009-05	Soil	18-Feb-25 10:32	20-Feb-25 14:02
FS 21 1'	H251009-06	Soil	18-Feb-25 10:40	20-Feb-25 14:02
FS 22 1'	H251009-07	Soil	18-Feb-25 11:00	20-Feb-25 14:02
FS 23 1'	H251009-08	Soil	18-Feb-25 13:30	20-Feb-25 14:02
FS 24 1'	H251009-09	Soil	18-Feb-25 13:35	20-Feb-25 14:02
FS 25 1'	H251009-10	Soil	18-Feb-25 13:45	20-Feb-25 14:02
CS 04 0.5	H251009-11	Soil	18-Feb-25 09:45	20-Feb-25 14:02
CS 05 0.5	H251009-12	Soil	18-Feb-25 09:58	20-Feb-25 14:02
CS 06 0.5	H251009-13	Soil	18-Feb-25 10:05	20-Feb-25 14:02
CS 07 0.5	H251009-14	Soil	18-Feb-25 10:14	20-Feb-25 14:02
CS 08 0.5	H251009-15	Soil	18-Feb-25 10:22	20-Feb-25 14:02

03/13/25 - Client changed the sample depths on -01 thru -10 (see COC). This is the revised report and will replace the one sent on 02/21/25.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 16 1'**  
**H251009-01 (Soil)**

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

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	5022137	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.529</b>	0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.529</b>	0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	117 %	71.5-134	5022032	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>20.6</b>	10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>625</b>	10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>57.8</b>	10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane	102 %	48.2-134	5022028	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane	106 %	49.1-148	5022028	MS	21-Feb-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 17 1'**  
**H251009-02 (Soil)**

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

<b>Chloride</b>	<b>400</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<b>0.059</b>		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Ethylbenzene*	<b>0.223</b>		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Total Xylenes*	<b>5.39</b>		0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Total BTEX	<b>5.68</b>		0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		193 %		71.5-134		5022032	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<b>154</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>2140</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>272</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane		123 %		48.2-134		5022028	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		125 %		49.1-148		5022028	MS	21-Feb-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 18 1'**  
**H251009-03 (Soil)**

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

<b>Chloride</b>	<b>512</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<b>0.334</b>		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Ethylbenzene*	<b>0.574</b>		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Total Xylenes*	<b>10.5</b>		0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Total BTEX	<b>11.4</b>		0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		216 %	71.5-134		5022032	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>332</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>2880</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>358</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane		137 %	48.2-134		5022028	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		144 %	49.1-148		5022028	MS	21-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 19 1'**  
**H251009-04 (Soil)**

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

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.100		0.100	mg/kg	100	5022032	JH	21-Feb-25	8021B	
Toluene*	<b>0.967</b>		0.100	mg/kg	100	5022032	JH	21-Feb-25	8021B	
Ethylbenzene*	<b>1.02</b>		0.100	mg/kg	100	5022032	JH	21-Feb-25	8021B	
Total Xylenes*	<b>31.8</b>		0.300	mg/kg	100	5022032	JH	21-Feb-25	8021B	
Total BTEX	<b>33.8</b>		0.600	mg/kg	100	5022032	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		224 %		71.5-134		5022032	JH	21-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>592</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>4540</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>543</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane		158 %		48.2-134		5022028	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		137 %		49.1-148		5022028	MS	21-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 20 1'**  
**H251009-05 (Soil)**

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

<b>Chloride</b>	<b>384</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Toluene*	0.066		0.050	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Ethylbenzene*	0.128		0.050	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Total Xylenes*	2.40		0.150	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Total BTEX	2.59		0.300	mg/kg	50	5022032	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		135 %	71.5-134		5022032	JH	21-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	45.5		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
DRO >C10-C28*	985		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	121		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane		112 %	48.2-134		5022028	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		124 %	49.1-148		5022028	MS	21-Feb-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 21 1'**  
**H251009-06 (Soil)**

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

<b>Chloride</b>	<b>1580</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<b>0.362</b>		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Ethylbenzene*	<b>0.283</b>		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Total Xylenes*	<b>11.4</b>		0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Total BTEX	<b>12.0</b>		0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		196 %	71.5-134			5022032	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>304</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3350</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>431</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane		125 %	48.2-134			5022028	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		141 %	49.1-148			5022028	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 22 1'**  
**H251009-07 (Soil)**

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

<b>Chloride</b>	<b>560</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.406</b>		0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.406</b>		0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %	71.5-134		5022032	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>34.3</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1500</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>202</b>		10.0	mg/kg	1	5022028	MS	21-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			114 %	48.2-134		5022028	MS	21-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			123 %	49.1-148		5022028	MS	21-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 23 1'**  
**H251009-08 (Soil)**

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

<b>Chloride</b>	<b>464</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.930</b>		0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.930</b>		0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %	71.5-134		5022032	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>48.7</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1560</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>196</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.4 %	48.2-134		5022041	MS	21-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %	49.1-148		5022041	MS	21-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 24 1'**  
**H251009-09 (Soil)**

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

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>2.26</b>		0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total BTEX</b>	<b>2.26</b>		0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			137 %		71.5-134	5022032	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>86.7</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1220</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>153</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			95.9 %		48.2-134	5022041	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			99.1 %		49.1-148	5022041	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**FS 25 1'**  
**H251009-10 (Soil)**

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

<b>Chloride</b>	<b>1550</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.200		0.200	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Toluene*	<b>2.36</b>		0.200	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Ethylbenzene*	<b>1.19</b>		0.200	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Total Xylenes*	<b>45.7</b>		0.600	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Total BTEX	<b>49.3</b>		1.20	mg/kg	200	5022032	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		178 %		71.5-134		5022032	JH	21-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>995</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>4960</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>547</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane		284 %		48.2-134		5022041	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		171 %		49.1-148		5022041	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**CS 04 0.5**  
**H251009-11 (Soil)**

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

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.500		0.500	mg/kg	500	5022032	JH	21-Feb-25	8021B	
Toluene*	17.2		0.500	mg/kg	500	5022032	JH	21-Feb-25	8021B	
Ethylbenzene*	10.6		0.500	mg/kg	500	5022032	JH	21-Feb-25	8021B	
Total Xylenes*	185		1.50	mg/kg	500	5022032	JH	21-Feb-25	8021B	
Total BTEX	212		3.00	mg/kg	500	5022032	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		199 %		71.5-134		5022032	JH	21-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	4340		100	mg/kg	10	5022041	MS	21-Feb-25	8015B	
DRO >C10-C28*	15700		100	mg/kg	10	5022041	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	1750		100	mg/kg	10	5022041	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane		737 %		48.2-134		5022041	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		222 %		49.1-148		5022041	MS	21-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**CS 05 0.5**  
**H251009-12 (Soil)**

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

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Toluene*	<b>0.079</b>		0.050	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Ethylbenzene*	<b>0.176</b>		0.050	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Total Xylenes*	<b>4.71</b>		0.150	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Total BTEX	<b>4.96</b>		0.300	mg/kg	50	5022032	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		163 %		71.5-134		5022032	JH	21-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>86.9</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>794</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>105</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane		82.2 %		48.2-134		5022041	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		83.4 %		49.1-148		5022041	MS	21-Feb-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**CS 06 0.5**  
**H251009-13 (Soil)**

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

<b>Chloride</b>	<b>464</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.200		0.200	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Toluene*	2.16		0.200	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Ethylbenzene*	0.917		0.200	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Total Xylenes*	36.0		0.600	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Total BTEX	39.1		1.20	mg/kg	200	5022032	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		166 %	71.5-134			5022032	JH	21-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	586		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
DRO >C10-C28*	2670		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	294		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane		134 %	48.2-134			5022041	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		118 %	49.1-148			5022041	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**CS 07 0.5**  
**H251009-14 (Soil)**

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

<b>Chloride</b>	<b>1460</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.200		0.200	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Toluene*	<b>2.20</b>		0.200	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Ethylbenzene*	<b>0.833</b>		0.200	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Total Xylenes*	<b>33.9</b>		0.600	mg/kg	200	5022032	JH	21-Feb-25	8021B	
Total BTEX	<b>36.9</b>		1.20	mg/kg	200	5022032	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		155 %	71.5-134		5022032	JH	21-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>772</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
DRO >C10-C28*	<b>4540</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	QM-07
EXT DRO >C28-C36	<b>437</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane		156 %	48.2-134		5022039	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		156 %	49.1-148		5022039	MS	20-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**CS 08 0.5**  
**H251009-15 (Soil)**

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

<b>Chloride</b>	<b>576</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022032	JH	21-Feb-25	8021B	
Ethylbenzene*	<b>0.084</b>		0.050	mg/kg	50	5022032	JH	21-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>3.26</b>		0.150	mg/kg	50	5022032	JH	21-Feb-25	8021B	
<b>Total BTEX</b>	<b>3.34</b>		0.300	mg/kg	50	5022032	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		164 %	71.5-134		5022032	JH	21-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>194</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2000</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>182</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane		111 %	48.2-134		5022039	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		121 %	49.1-148		5022039	MS	20-Feb-25	8015B	
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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022137 - 1:4 DI Water****Blank (5022137-BLK1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	ND	16.0	mg/kg							
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**LCS (5022137-BS1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	480	16.0	mg/kg	400	120	80-120				
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**LCS Dup (5022137-BSD1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	480	16.0	mg/kg	400	120	80-120	0.00	20		
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**Batch 5022142 - 1:4 DI Water****Blank (5022142-BLK1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	ND	16.0	mg/kg							
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**LCS (5022142-BS1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120				
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**LCS Dup (5022142-BSD1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20		
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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022032 - Volatiles****Blank (5022032-BLK1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.5	71.5-134			

**LCS (5022032-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	2.07	0.050	mg/kg	2.00		104	82.8-130			
Toluene	2.16	0.050	mg/kg	2.00		108	86-128			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89-129			
o-Xylene	2.05	0.050	mg/kg	2.00		102	86.1-125			
Total Xylenes	6.20	0.150	mg/kg	6.00		103	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.5	71.5-134			

**LCS Dup (5022032-BSD1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	2.05	0.050	mg/kg	2.00		103	82.8-130	1.01	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	86-128	0.808	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	85.9-128	0.942	16	
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	89-129	0.816	16.2	
o-Xylene	2.03	0.050	mg/kg	2.00		101	86.1-125	0.850	16.7	
Total Xylenes	6.15	0.150	mg/kg	6.00		102	88.2-128	0.827	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.8	71.5-134			

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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022028 - General Prep - Organics****Blank (5022028-BLK1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	48.2-134		
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0		93.2	49.1-148		

**LCS (5022028-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	211	10.0	mg/kg	200		106	81.5-123		
DRO >C10-C28	203	10.0	mg/kg	200		102	77.7-122		
Total TPH C6-C28	415	10.0	mg/kg	400		104	80.9-121		
Surrogate: 1-Chlorooctane	59.8		mg/kg	50.0		120	48.2-134		
Surrogate: 1-Chlorooctadecane	57.9		mg/kg	50.0		116	49.1-148		

**LCS Dup (5022028-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	208	10.0	mg/kg	200		104	81.5-123	1.43	13
DRO >C10-C28	196	10.0	mg/kg	200		97.8	77.7-122	3.91	15.6
Total TPH C6-C28	404	10.0	mg/kg	400		101	80.9-121	2.64	18.5
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	48.2-134		
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	49.1-148		

**Batch 5022039 - General Prep - Organics****Blank (5022039-BLK1)**

Prepared &amp; Analyzed: 20-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.7	48.2-134		
Surrogate: 1-Chlorooctadecane	49.2		mg/kg	50.0		98.4	49.1-148		

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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022039 - General Prep - Organics****LCS (5022039-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

GRO C6-C10	237	10.0	mg/kg	200		119	81.5-123		
DRO >C10-C28	228	10.0	mg/kg	200		114	77.7-122		
Total TPH C6-C28	466	10.0	mg/kg	400		116	80.9-121		
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	48.2-134		
Surrogate: 1-Chlorooctadecane	58.6		mg/kg	50.0		117	49.1-148		

**LCS Dup (5022039-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

GRO C6-C10	233	10.0	mg/kg	200		117	81.5-123	1.75	13
DRO >C10-C28	221	10.0	mg/kg	200		110	77.7-122	3.37	15.6
Total TPH C6-C28	454	10.0	mg/kg	400		114	80.9-121	2.54	18.5
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	48.2-134		
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148		

**Batch 5022041 - General Prep - Organics****Blank (5022041-BLK1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	43.2		mg/kg	50.0		86.4	48.2-134		
Surrogate: 1-Chlorooctadecane	41.2		mg/kg	50.0		82.4	49.1-148		

**LCS (5022041-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	202	10.0	mg/kg	200		101	81.5-123		
DRO >C10-C28	190	10.0	mg/kg	200		94.9	77.7-122		
Total TPH C6-C28	392	10.0	mg/kg	400		97.9	80.9-121		
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	48.2-134		
Surrogate: 1-Chlorooctadecane	45.0		mg/kg	50.0		90.0	49.1-148		

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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:44

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022041 - General Prep - Organics****LCS Dup (5022041-BSD1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	202	10.0	mg/kg	200		101	81.5-123	0.110	13	
DRO >C10-C28	194	10.0	mg/kg	200		96.9	77.7-122	2.15	15.6	
Total TPH C6-C28	396	10.0	mg/kg	400		99.0	80.9-121	1.10	18.5	
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.2	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		89.1	49.1-148			

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### Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
<b>Project Manager:</b> Ben Beill				<b>P.O. #:</b>							
<b>Address:</b> 601 N Marlenfeld Street, suite 400				<b>Company:</b> XTO Energy							
<b>City:</b> Midland				<b>Attn:</b> Colton Brown							
<b>State:</b> TX <b>Zip:</b> 79701				<b>Address:</b>							
<b>Phone #:</b> 989-854-0852 <b>Fax #:</b>				<b>City:</b>							
<b>Project #:</b> 03C1558583 <b>Project Owner:</b>				<b>State:</b> NM <b>Zip:</b>							
<b>Project Location:</b> 32.107150, -103.817460				<b>Phone #:</b>							
<b>Sampler Name:</b> Uriel Santillana				<b>Fax #:</b>							
<small>FOR LAB USE ONLY</small>											
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING				
					GROUNDWATER						
					WASTEWATER						
					SOIL						
					OIL						
					SLUDGE						
					OTHER :						
					ACID/BASE:						
					ICE / COOL						
					OTHER :						
					DATE	TIME					
HES1009	1	16	X	1							
	2	17	X	1							
	3	18	X	1							
	4	19	X	1							
	5	20	X	1							
	6	21	X	1							
	7	22	X	1							
	8	23	X	1							
	9	24	X	1							
	10	25	X	1							

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<b>Relinquished By:</b>	<b>Date:</b> 2-20-25	<b>Received By:</b>	<b>Date:</b> 2-18-25
<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>	<b>Date:</b>

**REMARKS:**

Cost Code: 2258891001 Incident Number nAPP2434530896

**Turnaround Time:** Standard ☐ Rush ☒

**Thermometer ID:** #140 **Correction Factor:** +0.3°C

**Bacteria (only):** Cool Intact ☐ Yes ☐ No ☐ Sample Condition 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		<b>BILL TO</b>		P.O. #:		ANALYSIS REQUEST	
Project Manager: Ben Beill		Address: 601 N Marienfeld Street, suite 400		Company: XTO Energy			
City: Midland		State: TX Zip: 79701		Attn: Colton Brown			
Phone #: 989-854-0852		Fax #:		Address:			
Project #: 03C1558583		Project Owner:		City:			
Project Name: Poker Lake Unit 30-19 BS 154H		State: NM Zip:		Phone #:			
Project Location: 32.107150, -103.817460		Fax #:					
Sampler Name: Uriel Santillana							

FOR LAB USE ONLY		LAB I.D.		Sample I.D.		Depth (feet)		MATRIX		PRESERV		SAMPLING							
Observed Temp. °C	Corrected Temp. °C	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	TPH	BTEX
11	11	CS04	0.5'	X	1			X							21/8/25	945	X	X	X
12	12	CS05														958			
13	13	CS06														1005			
14	14	CS07														1014			
15	15	CS08														1022			

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Relinquished By:		Date: 8/20/25		Received By:		Date: 8/20/25	
Relinquished By:		Date:		Received By:		Date:	

REMARKS: Cost Code: 2258891001 Incident Number nAPP2434530896

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

---

March 13, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 02/20/25 14:02.

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

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 31 1'	H251011-01	Soil	19-Feb-25 10:13	20-Feb-25 14:02
FS 26 1'	H251011-02	Soil	19-Feb-25 10:19	20-Feb-25 14:02
FS 27 1'	H251011-03	Soil	19-Feb-25 10:25	20-Feb-25 14:02
FS 28 1'	H251011-04	Soil	19-Feb-25 10:22	20-Feb-25 14:02
FS 36 1'	H251011-05	Soil	19-Feb-25 10:32	20-Feb-25 14:02
FS 37 1'	H251011-06	Soil	19-Feb-25 10:44	20-Feb-25 14:02
FS 38 1'	H251011-07	Soil	19-Feb-25 10:55	20-Feb-25 14:02
FS 39 1'	H251011-08	Soil	19-Feb-25 10:53	20-Feb-25 14:02
FS 40 1'	H251011-09	Soil	19-Feb-25 10:56	20-Feb-25 14:02
FS 41 1'	H251011-10	Soil	19-Feb-25 11:01	20-Feb-25 14:02
FS 47 1'	H251011-11	Soil	19-Feb-25 12:37	20-Feb-25 14:02
FS 48 1'	H251011-12	Soil	19-Feb-25 12:43	20-Feb-25 14:02
FS 49 1'	H251011-13	Soil	19-Feb-25 12:47	20-Feb-25 14:02
FS 50 1'	H251011-14	Soil	19-Feb-25 12:51	20-Feb-25 14:02
FS 61 1'	H251011-15	Soil	19-Feb-25 12:55	20-Feb-25 14:02
FS 62 1'	H251011-16	Soil	19-Feb-25 13:00	20-Feb-25 14:02
FS 68 1'	H251011-17	Soil	19-Feb-25 13:05	20-Feb-25 14:02
FS 69 1'	H251011-18	Soil	19-Feb-25 13:10	20-Feb-25 14:02
FS 64 1'	H251011-19	Soil	19-Feb-25 13:40	20-Feb-25 14:02
FS 66 1'	H251011-20	Soil	19-Feb-25 13:45	20-Feb-25 14:02
FS 29 1'	H251011-21	Soil	19-Feb-25 10:07	20-Feb-25 14:02
FS 30 1'	H251011-22	Soil	19-Feb-25 10:05	20-Feb-25 14:02
FS 33 1'	H251011-23	Soil	19-Feb-25 10:40	20-Feb-25 14:02
FS 34 1'	H251011-24	Soil	19-Feb-25 10:43	20-Feb-25 14:02
FS 35 1'	H251011-25	Soil	19-Feb-25 10:47	20-Feb-25 14:02
FS 42 1'	H251011-26	Soil	19-Feb-25 11:18	20-Feb-25 14:02
FS 43 1'	H251011-27	Soil	19-Feb-25 11:27	20-Feb-25 14:02

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

FS 44	1'	H251011-28	Soil	19-Feb-25 11:31	20-Feb-25 14:02
FS 45	1'	H251011-29	Soil	19-Feb-25 11:36	20-Feb-25 14:02
FS 46	1'	H251011-30	Soil	19-Feb-25 11:23	20-Feb-25 14:02
FS 56	1'	H251011-31	Soil	19-Feb-25 13:29	20-Feb-25 14:02
FS 57	1'	H251011-32	Soil	19-Feb-25 13:32	20-Feb-25 14:02
FS 58	1'	H251011-33	Soil	19-Feb-25 13:40	20-Feb-25 14:02
FS 59	1'	H251011-34	Soil	19-Feb-25 13:44	20-Feb-25 14:02
FS 60	1'	H251011-35	Soil	19-Feb-25 13:49	20-Feb-25 14:02
FS 71	1'	H251011-36	Soil	19-Feb-25 14:02	20-Feb-25 14:02
FS 72	1'	H251011-37	Soil	19-Feb-25 14:04	20-Feb-25 14:02
FS 73	1'	H251011-38	Soil	19-Feb-25 14:06	20-Feb-25 14:02
FS 51	1'	H251011-39	Soil	19-Feb-25 12:58	20-Feb-25 14:02
FS 52	1'	H251011-40	Soil	19-Feb-25 13:03	20-Feb-25 14:02
FS 67	1'	H251011-41	Soil	19-Feb-25 13:50	20-Feb-25 14:02
FS 70	1'	H251011-42	Soil	19-Feb-25 13:55	20-Feb-25 14:02
FS 63	1'	H251011-43	Soil	19-Feb-25 14:00	20-Feb-25 14:02
FS 53	1'	H251011-44	Soil	19-Feb-25 13:08	20-Feb-25 14:02
FS 54	1'	H251011-45	Soil	19-Feb-25 13:12	20-Feb-25 14:02
FS 55	1'	H251011-46	Soil	19-Feb-25 13:16	20-Feb-25 14:02
CS 10	0.5'	H251011-47	Soil	19-Feb-25 13:15	20-Feb-25 14:02
CS 11	0.5'	H251011-48	Soil	19-Feb-25 13:20	20-Feb-25 14:02
CS 12	0.5'	H251011-49	Soil	19-Feb-25 13:25	20-Feb-25 14:02
CS 13	0.5'	H251011-50	Soil	19-Feb-25 13:30	20-Feb-25 14:02
CS 14	0.5'	H251011-51	Soil	19-Feb-25 13:35	20-Feb-25 14:02
CS 09	0.5'	H251011-52	Soil	19-Feb-25 11:15	20-Feb-25 14:02

03/13/25 - Client changed the sample depths (see COC). This is the revised report and will replace the one sent on 02/21/25.

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 31 1'**  
**H251011-01 (Soil)**

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

<b>Chloride</b>	<b>304</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.618</b>	0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	GC-NC1
<b>Total BTEX</b>	<b>0.618</b>	0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID)	108 %	71.5-134	5022032	JH	20-Feb-25	8021B
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>17.3</b>	10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B
<b>DRO &gt;C10-C28*</b>	<b>683</b>	10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B
<b>EXT DRO &gt;C28-C36</b>	<b>71.5</b>	10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B

Surrogate: 1-Chlorooctane	105 %	48.2-134	5022036	MS	21-Feb-25	8015B
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Surrogate: 1-Chlorooctadecane	105 %	49.1-148	5022036	MS	21-Feb-25	8015B
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 26 1'**  
**H251011-02 (Soil)**

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

<b>Chloride</b>	<b>272</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<b>0.083</b>		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.139</b>		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>2.36</b>		0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	GC-NC1
Total BTEX	<b>2.59</b>		0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134 5022032 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>82.0</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1640</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>211</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 117 % 48.2-134 5022036 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 112 % 49.1-148 5022036 MS 21-Feb-25 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 27 1'**  
**H251011-03 (Soil)**

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

<b>Chloride</b>	<b>416</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.100		0.100	mg/kg	100	5022032	JH	21-Feb-25	8021B	
Toluene*	<b>2.14</b>		0.100	mg/kg	100	5022032	JH	21-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>1.93</b>		0.100	mg/kg	100	5022032	JH	21-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>32.3</b>		0.300	mg/kg	100	5022032	JH	21-Feb-25	8021B	GC-NC1
Total BTEX	<b>36.3</b>		0.600	mg/kg	100	5022032	JH	21-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 212 % 71.5-134 5022032 JH 21-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>578</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3220</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>379</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 149 % 48.2-134 5022036 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 119 % 49.1-148 5022036 MS 21-Feb-25 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 28 1'**  
**H251011-04 (Soil)**

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

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022032	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.298</b>		0.150	mg/kg	50	5022032	JH	20-Feb-25	8021B	GC-NC1
Total BTEX	<0.300		0.300	mg/kg	50	5022032	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134 5022032 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>421</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>46.2</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 114 % 48.2-134 5022036 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 117 % 49.1-148 5022036 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 36 1'**  
**H251011-05 (Soil)**

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

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>313</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>38.8</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			108 %	48.2-134		5022036	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	49.1-148		5022036	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 37 1'**  
**H251011-06 (Soil)**

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

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	5022142	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>207</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>17.7</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			109 %	48.2-134		5022036	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	49.1-148		5022036	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 38 1'**  
**H251011-07 (Soil)**

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

<b>Chloride</b>	<b>1180</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	QM-07
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<b>0.142</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>1.13</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>3.62</b>		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Total BTEX	<b>4.89</b>		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134 5022033 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>108</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1750</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>234</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 122 % 48.2-134 5022036 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 117 % 49.1-148 5022036 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 39 1'**  
**H251011-08 (Soil)**

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

<b>Chloride</b>	<b>1600</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<b>0.366</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>1.24</b>		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
<b>Total BTEX</b>	<b>1.61</b>		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134 5022033 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>49.2</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1850</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>237</b>		10.0	mg/kg	1	5022036	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 111 % 48.2-134 5022036 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 118 % 49.1-148 5022036 MS 21-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 40 1'**  
**H251011-09 (Soil)**

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

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>356</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>48.6</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			89.2 %	48.2-134		5022041	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			92.0 %	49.1-148		5022041	MS	21-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 41 1'**  
**H251011-10 (Soil)**

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

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<b>0.571</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>2.83</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>10.3</b>		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Total BTEX	<b>13.7</b>		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 152 % 71.5-134 5022033 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>264</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1360</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>146</b>		10.0	mg/kg	1	5022041	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 97.5 % 48.2-134 5022041 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148 5022041 MS 21-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 47 1'**  
**H251011-11 (Soil)**

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

<b>Chloride</b>	<b>1360</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<b>0.050</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.667</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>1.81</b>		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Total BTEX	<b>2.52</b>		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134 5022033 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>130</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3130</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>311</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 137 % 48.2-134 5022042 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 121 % 49.1-148 5022042 MS 21-Feb-25 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 48 1'**  
**H251011-12 (Soil)**

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

<b>Chloride</b>	<b>960</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<b>0.054</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 5022033 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>1470</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>170</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 83.9 % 48.2-134 5022042 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148 5022042 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 49 1'**  
**H251011-13 (Soil)**

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

<b>Chloride</b>	<b>3200</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %		71.5-134	5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>1140</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>136</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			91.5 %		48.2-134	5022042	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			94.0 %		49.1-148	5022042	MS	21-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 50 1'**  
**H251011-14 (Soil)**

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

<b>Chloride</b>	<b>2040</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<b>0.269</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>0.602</b>		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
<b>Total BTEX</b>	<b>0.871</b>		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134 5022033 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>40.4</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1180</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>132</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 99.3 % 48.2-134 5022042 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148 5022042 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 61 1'**  
**H251011-15 (Soil)**

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

<b>Chloride</b>	<b>2920</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<b>0.149</b>		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>0.276</b>		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1
<b>Total BTEX</b>	<b>0.424</b>		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 5022033 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>20.2</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1190</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>134</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 92.0 % 48.2-134 5022042 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148 5022042 MS 21-Feb-25 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 62 1'**  
**H251011-16 (Soil)**

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

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>101</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			89.8 %	48.2-134		5022042	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			93.5 %	49.1-148		5022042	MS	21-Feb-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 68 1'**  
**H251011-17 (Soil)**

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

<b>Chloride</b>	<b>528</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.3 %		48.2-134	5022042	MS	21-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.5 %		49.1-148	5022042	MS	21-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 69 1'**  
**H251011-18 (Soil)**

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

<b>Chloride</b>	<b>1740</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>128</b>		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022042	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			98.0 %	48.2-134		5022042	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			100 %	49.1-148		5022042	MS	21-Feb-25	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 64 1'**  
**H251011-19 (Soil)**

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

<b>Chloride</b>	<b>1760</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022043	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>669</b>		10.0	mg/kg	1	5022043	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>82.8</b>		10.0	mg/kg	1	5022043	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			85.5 %	48.2-134		5022043	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			93.5 %	49.1-148		5022043	MS	21-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 66 1'**  
**H251011-20 (Soil)**

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

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022043	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>30.3</b>		10.0	mg/kg	1	5022043	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022043	MS	21-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.7 %	48.2-134		5022043	MS	21-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.3 %	49.1-148		5022043	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 29 1'**  
**H251011-21 (Soil)**

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

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	71.5-134		5022033	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>16.0</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.8 %	48.2-134		5022037	MS	21-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.7 %	49.1-148		5022037	MS	21-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 30 1'**  
**H251011-22 (Soil)**

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

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5022033	JH	20-Feb-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5022033	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	71.5-134	5022033	JH	20-Feb-25	8021B
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>13.5</b>	10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B
<b>DRO &gt;C10-C28*</b>	<b>838</b>	10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B
<b>EXT DRO &gt;C28-C36</b>	<b>103</b>	10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B

Surrogate: 1-Chlorooctane	96.9 %	48.2-134	5022037	MS	21-Feb-25	8015B
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Surrogate: 1-Chlorooctadecane	93.5 %	49.1-148	5022037	MS	21-Feb-25	8015B
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 33 1'**  
**H251011-23 (Soil)**

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

<b>Chloride</b>	<b>544</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.100		0.100	mg/kg	100	5022033	JH	21-Feb-25	8021B	
Toluene*	<b>3.67</b>		0.100	mg/kg	100	5022033	JH	21-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>5.57</b>		0.100	mg/kg	100	5022033	JH	21-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>29.8</b>		0.300	mg/kg	100	5022033	JH	21-Feb-25	8021B	GC-NC1
Total BTEX	<b>39.0</b>		0.600	mg/kg	100	5022033	JH	21-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134 5022033 JH 21-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>544</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3240</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>371</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 123 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148 5022037 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 34 1'**  
**H251011-24 (Soil)**

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

<b>Chloride</b>	<b>672</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.100		0.100	mg/kg	100	5022033	JH	21-Feb-25	8021B	
Toluene*	<b>2.56</b>		0.100	mg/kg	100	5022033	JH	21-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>5.73</b>		0.100	mg/kg	100	5022033	JH	21-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>27.7</b>		0.300	mg/kg	100	5022033	JH	21-Feb-25	8021B	GC-NC1
Total BTEX	<b>36.0</b>		0.600	mg/kg	100	5022033	JH	21-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 152 % 71.5-134 5022033 JH 21-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>450</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2640</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>306</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 133 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148 5022037 MS 21-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 35 1'**  
**H251011-25 (Soil)**

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

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5022034	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			89.8 %	48.2-134		5022037	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			90.5 %	49.1-148		5022037	MS	21-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 42 1'**  
**H251011-26 (Soil)**

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

<b>Chloride</b>	<b>1400</b>		16.0	mg/kg	4	5022138	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	21-Feb-25	8021B	
Toluene*	<b>0.435</b>		0.050	mg/kg	50	5022034	JH	21-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.278</b>		0.050	mg/kg	50	5022034	JH	21-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>4.82</b>		0.150	mg/kg	50	5022034	JH	21-Feb-25	8021B	GC-NC1
Total BTEX	<b>5.53</b>		0.300	mg/kg	50	5022034	JH	21-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134 5022034 JH 21-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>678</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3460</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>404</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 143 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148 5022037 MS 21-Feb-25 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 43 1'**  
**H251011-27 (Soil)**

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

<b>Chloride</b>	<b>2480</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.500		0.500	mg/kg	500	5022034	JH	21-Feb-25	8021B	
Toluene*	<b>3.86</b>		0.500	mg/kg	500	5022034	JH	21-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>2.93</b>		0.500	mg/kg	500	5022034	JH	21-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>52.6</b>		1.50	mg/kg	500	5022034	JH	21-Feb-25	8021B	GC-NC1
Total BTEX	<b>59.4</b>		3.00	mg/kg	500	5022034	JH	21-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 144 % 71.5-134 5022034 JH 21-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>987</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>8690</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1000</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 399 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 184 % 49.1-148 5022037 MS 21-Feb-25 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 44 1'**  
**H251011-28 (Soil)**

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

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	21-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	21-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	21-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022034	JH	21-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5022034	JH	21-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>105</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>18.5</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			99.3 %	48.2-134		5022037	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	49.1-148		5022037	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 45 1'**  
**H251011-29 (Soil)**

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

<b>Chloride</b>	<b>416</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		5022034	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>121</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>11.3</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			91.9 %	48.2-134		5022037	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			94.7 %	49.1-148		5022037	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 46 1'**  
**H251011-30 (Soil)**

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

<b>Chloride</b>	<b>528</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.460</b>		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
<b>Total BTEX</b>	<b>0.460</b>		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134 5022034 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>22.0</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>988</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>131</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 94.4 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148 5022037 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 56 1'**  
**H251011-31 (Soil)**

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

<b>Chloride</b>	<b>848</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.445</b>		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
<b>Total BTEX</b>	<b>0.445</b>		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134 5022034 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>13.3</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>656</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>92.2</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 88.9 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148 5022037 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 57 1'**  
**H251011-32 (Soil)**

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

<b>Chloride</b>	<b>1330</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		5022034	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>54.1</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			92.4 %	48.2-134		5022037	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			94.5 %	49.1-148		5022037	MS	21-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 58 1'**  
**H251011-33 (Soil)**

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

<b>Chloride</b>	<b>4000</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.384</b>		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
<b>Total BTEX</b>	<b>0.384</b>		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134 5022034 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>36.3</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1480</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>173</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 90.5 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148 5022037 MS 21-Feb-25 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 59 1'**  
**H251011-34 (Soil)**

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

<b>Chloride</b>	<b>6480</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		5022034	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>502</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>85.1</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			91.0 %	48.2-134		5022037	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			91.8 %	49.1-148		5022037	MS	21-Feb-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 60 1'**  
**H251011-35 (Soil)**

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

<b>Chloride</b>	<b>8720</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<b>0.794</b>		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.930</b>		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>19.5</b>		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Total BTEX	<b>21.2</b>		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 209 % 71.5-134 5022034 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>442</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5710</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>712</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 243 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 116 % 49.1-148 5022037 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 71 1'**  
**H251011-36 (Soil)**

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

<b>Chloride</b>	<b>2960</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
<b>Total Xylenes*</b>	<b>0.207</b>		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134 5022034 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>794</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>108</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 98.4 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148 5022037 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 72 1'**  
**H251011-37 (Soil)**

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

<b>Chloride</b>	<b>7300</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<b>0.334</b>		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.512</b>		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>13.3</b>		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Total BTEX	<b>14.1</b>		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 200 % 71.5-134 5022034 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>393</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4570</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>584</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 173 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 111 % 49.1-148 5022037 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 73 1'**  
**H251011-38 (Soil)**

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

<b>Chloride</b>	<b>6160</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.100		0.100	mg/kg	100	5022034	JH	21-Feb-25	8021B	
Toluene*	<b>1.30</b>		0.100	mg/kg	100	5022034	JH	21-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>1.71</b>		0.100	mg/kg	100	5022034	JH	21-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>31.0</b>		0.300	mg/kg	100	5022034	JH	21-Feb-25	8021B	GC-NC1
Total BTEX	<b>34.0</b>		0.600	mg/kg	100	5022034	JH	21-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 193 % 71.5-134 5022034 JH 21-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>554</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5410</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>698</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane 203 % 48.2-134 5022037 MS 21-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 109 % 49.1-148 5022037 MS 21-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 51 1'**  
**H251011-39 (Soil)**

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

<b>Chloride</b>	<b>896</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		5022034	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>293</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>47.6</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			79.1 %	48.2-134		5022037	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			81.1 %	49.1-148		5022037	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 52 1'**  
**H251011-40 (Soil)**

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

<b>Chloride</b>	<b>752</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		5022034	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
DRO >C10-C28*	<b>817</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<b>113</b>		10.0	mg/kg	1	5022037	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			73.1 %	48.2-134		5022037	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			69.7 %	49.1-148		5022037	MS	21-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 67 1'**  
**H251011-41 (Soil)**

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

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	71.5-134	5022034	JH	20-Feb-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B

Surrogate: 1-Chlorooctane	81.7 %	48.2-134	5022039	MS	20-Feb-25	8015B
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Surrogate: 1-Chlorooctadecane	80.3 %	49.1-148	5022039	MS	20-Feb-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 70 1'**  
**H251011-42 (Soil)**

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

<b>Chloride</b>	<b>2960</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<b>0.186</b>		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Ethylbenzene*	<b>0.237</b>		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>5.54</b>		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1
Total BTEX	<b>5.96</b>		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 172 % 71.5-134 5022034 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>270</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2430</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>248</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane 116 % 48.2-134 5022039 MS 20-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 125 % 49.1-148 5022039 MS 20-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 63 1'**  
**H251011-43 (Soil)**

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

<b>Chloride</b>	<b>384</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %		71.5-134	5022034	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
DRO >C10-C28*	<b>28.7</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			73.5 %		48.2-134	5022039	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			73.9 %		49.1-148	5022039	MS	20-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 53 1'**  
**H251011-44 (Soil)**

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

<b>Chloride</b>	<b>1220</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022034	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022034	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	5022034	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
DRO >C10-C28*	<b>1860</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<b>222</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			88.3 %		48.2-134	5022039	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			115 %		49.1-148	5022039	MS	20-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 54 1'**  
**H251011-45 (Soil)**

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

<b>Chloride</b>	<b>496</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022035	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		5022035	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1150</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>130</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			78.5 %	48.2-134		5022039	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			96.7 %	49.1-148		5022039	MS	20-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**FS 55 1'**  
**H251011-46 (Soil)**

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

<b>Chloride</b>	<b>1620</b>		16.0	mg/kg	4	5022143	HM	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Ethylbenzene*	<b>0.234</b>		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>3.62</b>		0.150	mg/kg	50	5022035	JH	20-Feb-25	8021B	GC-NC1
<b>Total BTEX</b>	<b>3.86</b>		0.300	mg/kg	50	5022035	JH	20-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 160 % 71.5-134 5022035 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>172</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1960</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>207</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane 103 % 48.2-134 5022039 MS 20-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 117 % 49.1-148 5022039 MS 20-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**CS 10 0.5'**  
**H251011-47 (Soil)**

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

<b>Chloride</b>	<b>1800</b>		16.0	mg/kg	4	5022139	AC	21-Feb-25	4500-Cl-B	QM-07
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022035	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134 5022035 JH 20-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>158</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>14.7</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane 72.0 % 48.2-134 5022039 MS 20-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148 5022039 MS 20-Feb-25 8015B

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**CS 11 0.5'**  
**H251011-48 (Soil)**

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

<b>Chloride</b>	<b>1240</b>		16.0	mg/kg	4	5022139	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022035	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.8 %		71.5-134	5022035	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
DRO >C10-C28*	<b>243</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<b>25.5</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			68.5 %		48.2-134	5022039	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			74.3 %		49.1-148	5022039	MS	20-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**CS 12 0.5'**  
**H251011-49 (Soil)**

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

<b>Chloride</b>	<b>960</b>		16.0	mg/kg	4	5022139	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022035	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.2 %		71.5-134	5022035	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>262</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>28.4</b>		10.0	mg/kg	1	5022039	MS	20-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.1 %		48.2-134	5022039	MS	20-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.5 %		49.1-148	5022039	MS	20-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**CS 13 0.5'**  
**H251011-50 (Soil)**

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

<b>Chloride</b>	<b>896</b>		16.0	mg/kg	4	5022139	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022035	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.1 %		71.5-134	5022035	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022039	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>148</b>		10.0	mg/kg	1	5022039	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>20.9</b>		10.0	mg/kg	1	5022039	MS	21-Feb-25	8015B	

Surrogate: 1-Chlorooctane			76.4 %		48.2-134	5022039	MS	21-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			80.4 %		49.1-148	5022039	MS	21-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**CS 14 0.5'**  
**H251011-51 (Soil)**

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

<b>Chloride</b>	<b>1140</b>		16.0	mg/kg	4	5022139	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022035	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.5 %		71.5-134	5022035	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022039	MS	21-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>284</b>		10.0	mg/kg	1	5022039	MS	21-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>35.9</b>		10.0	mg/kg	1	5022039	MS	21-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.4 %		48.2-134	5022039	MS	21-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.4 %		49.1-148	5022039	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**CS 09 0.5'**  
**H251011-52 (Soil)**

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

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	5022139	AC	21-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022035	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022035	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.6 %		71.5-134	5022035	JH	20-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022039	MS	21-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5022039	MS	21-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022039	MS	21-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.7 %		48.2-134	5022039	MS	21-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.0 %		49.1-148	5022039	MS	21-Feb-25	8015B	
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022138 - 1:4 DI Water****Blank (5022138-BLK1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	ND	16.0	mg/kg
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**LCS (5022138-BS1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120
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**LCS Dup (5022138-BSD1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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**Batch 5022139 - 1:4 DI Water****Blank (5022139-BLK1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	ND	16.0	mg/kg
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**LCS (5022139-BS1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120
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**LCS Dup (5022139-BSD1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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**Batch 5022142 - 1:4 DI Water****Blank (5022142-BLK1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	ND	16.0	mg/kg
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**LCS (5022142-BS1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120
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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022142 - 1:4 DI Water****LCS Dup (5022142-BSD1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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**Batch 5022143 - 1:4 DI Water****Blank (5022143-BLK1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	ND	16.0	mg/kg							
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**LCS (5022143-BS1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (5022143-BSD1)**

Prepared &amp; Analyzed: 21-Feb-25

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022032 - Volatiles****Blank (5022032-BLK1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.5	71.5-134			

**LCS (5022032-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	2.07	0.050	mg/kg	2.00		104	82.8-130			
Toluene	2.16	0.050	mg/kg	2.00		108	86-128			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89-129			
o-Xylene	2.05	0.050	mg/kg	2.00		102	86.1-125			
Total Xylenes	6.20	0.150	mg/kg	6.00		103	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.5	71.5-134			

**LCS Dup (5022032-BSD1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	2.05	0.050	mg/kg	2.00		103	82.8-130	1.01	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	86-128	0.808	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	85.9-128	0.942	16	
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	89-129	0.816	16.2	
o-Xylene	2.03	0.050	mg/kg	2.00		101	86.1-125	0.850	16.7	
Total Xylenes	6.15	0.150	mg/kg	6.00		102	88.2-128	0.827	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.8	71.5-134			

**Batch 5022033 - Volatiles****Blank (5022033-BLK1)**

Prepared &amp; Analyzed: 20-Feb-25

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

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022033 - Volatiles****Blank (5022033-BLK1)**

Prepared &amp; Analyzed: 20-Feb-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0545		mg/kg	0.0500		109	71.5-134			

**LCS (5022033-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	1.98	0.050	mg/kg	2.00		99.2	82.8-130			
Toluene	2.22	0.050	mg/kg	2.00		111	86-128			
Ethylbenzene	2.31	0.050	mg/kg	2.00		115	85.9-128			
m,p-Xylene	4.66	0.100	mg/kg	4.00		117	89-129			
o-Xylene	2.25	0.050	mg/kg	2.00		112	86.1-125			
Total Xylenes	6.91	0.150	mg/kg	6.00		115	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	71.5-134			

**LCS Dup (5022033-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	1.97	0.050	mg/kg	2.00		98.6	82.8-130	0.567	15.8	
Toluene	2.17	0.050	mg/kg	2.00		109	86-128	1.96	15.9	
Ethylbenzene	2.30	0.050	mg/kg	2.00		115	85.9-128	0.261	16	
m,p-Xylene	4.62	0.100	mg/kg	4.00		115	89-129	0.969	16.2	
o-Xylene	2.21	0.050	mg/kg	2.00		111	86.1-125	1.44	16.7	
Total Xylenes	6.83	0.150	mg/kg	6.00		114	88.2-128	1.12	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	71.5-134			

**Batch 5022034 - Volatiles****Blank (5022034-BLK1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0535		mg/kg	0.0500		107	71.5-134			

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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022034 - Volatiles****LCS (5022034-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130			
Toluene	2.20	0.050	mg/kg	2.00		110	86-128			
Ethylbenzene	2.24	0.050	mg/kg	2.00		112	85.9-128			
m,p-Xylene	4.64	0.100	mg/kg	4.00		116	89-129			
o-Xylene	2.19	0.050	mg/kg	2.00		110	86.1-125			
Total Xylenes	6.83	0.150	mg/kg	6.00		114	88.2-128			

Surrogate: 4-Bromofluorobenzene (PID) 0.0519 mg/kg 0.0500 104 71.5-134

**LCS Dup (5022034-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	2.14	0.050	mg/kg	2.00		107	82.8-130	1.90	15.8	
Toluene	2.19	0.050	mg/kg	2.00		110	86-128	0.453	15.9	
Ethylbenzene	2.22	0.050	mg/kg	2.00		111	85.9-128	1.13	16	
m,p-Xylene	4.60	0.100	mg/kg	4.00		115	89-129	0.861	16.2	
o-Xylene	2.15	0.050	mg/kg	2.00		108	86.1-125	1.87	16.7	
Total Xylenes	6.75	0.150	mg/kg	6.00		113	88.2-128	1.18	16.3	

Surrogate: 4-Bromofluorobenzene (PID) 0.0502 mg/kg 0.0500 100 71.5-134

**Batch 5022035 - Volatiles****Blank (5022035-BLK1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							

Surrogate: 4-Bromofluorobenzene (PID) ND mg/kg 0.0500 97.8 71.5-134

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022035 - Volatiles****LCS (5022035-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	2.00	0.050	mg/kg	2.00		100	82.8-130			
Toluene	2.12	0.050	mg/kg	2.00		106	86-128			
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	85.9-128			
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89-129			
o-Xylene	2.00	0.050	mg/kg	2.00		99.9	86.1-125			
Total Xylenes	6.08	0.150	mg/kg	6.00		101	88.2-128			

Surrogate: 4-Bromofluorobenzene (PID)

0.0490

mg/kg

0.0500

98.1

71.5-134

**LCS Dup (5022035-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

Benzene	1.99	0.050	mg/kg	2.00		99.4	82.8-130	0.819	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	0.661	15.9	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	85.9-128	0.429	16	
m,p-Xylene	4.05	0.100	mg/kg	4.00		101	89-129	0.755	16.2	
o-Xylene	1.99	0.050	mg/kg	2.00		99.6	86.1-125	0.246	16.7	
Total Xylenes	6.04	0.150	mg/kg	6.00		101	88.2-128	0.587	16.3	

Surrogate: 4-Bromofluorobenzene (PID)

0.0490

mg/kg

0.0500

98.0

71.5-134

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022036 - General Prep - Organics****Blank (5022036-BLK1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134		
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	49.1-148		

**LCS (5022036-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	218	10.0	mg/kg	200		109	81.5-123		
DRO >C10-C28	215	10.0	mg/kg	200		108	77.7-122		
Total TPH C6-C28	433	10.0	mg/kg	400		108	80.9-121		
Surrogate: 1-Chlorooctane	60.5		mg/kg	50.0		121	48.2-134		
Surrogate: 1-Chlorooctadecane	58.7		mg/kg	50.0		117	49.1-148		

**LCS Dup (5022036-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	216	10.0	mg/kg	200		108	81.5-123	0.994	13
DRO >C10-C28	202	10.0	mg/kg	200		101	77.7-122	6.03	15.6
Total TPH C6-C28	418	10.0	mg/kg	400		105	80.9-121	3.46	18.5
Surrogate: 1-Chlorooctane	60.8		mg/kg	50.0		122	48.2-134		
Surrogate: 1-Chlorooctadecane	55.3		mg/kg	50.0		111	49.1-148		

**Batch 5022037 - General Prep - Organics****Blank (5022037-BLK1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.4	48.2-134		
Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0		98.6	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022037 - General Prep - Organics****LCS (5022037-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

GRO C6-C10	203	10.0	mg/kg	200		101	81.5-123			
DRO >C10-C28	202	10.0	mg/kg	200		101	77.7-122			
Total TPH C6-C28	404	10.0	mg/kg	400		101	80.9-121			
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	48.2-134			
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	49.1-148			

**LCS Dup (5022037-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	199	10.0	mg/kg	200		99.3	81.5-123	2.04	13	
DRO >C10-C28	199	10.0	mg/kg	200		99.3	77.7-122	1.59	15.6	
Total TPH C6-C28	397	10.0	mg/kg	400		99.3	80.9-121	1.81	18.5	
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	48.2-134			
Surrogate: 1-Chlorooctadecane	51.8		mg/kg	50.0		104	49.1-148			

**Batch 5022039 - General Prep - Organics****Blank (5022039-BLK1)**

Prepared &amp; Analyzed: 20-Feb-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.7	48.2-134			
Surrogate: 1-Chlorooctadecane	49.2		mg/kg	50.0		98.4	49.1-148			

**LCS (5022039-BS1)**

Prepared &amp; Analyzed: 20-Feb-25

GRO C6-C10	237	10.0	mg/kg	200		119	81.5-123			
DRO >C10-C28	228	10.0	mg/kg	200		114	77.7-122			
Total TPH C6-C28	466	10.0	mg/kg	400		116	80.9-121			
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	48.2-134			
Surrogate: 1-Chlorooctadecane	58.6		mg/kg	50.0		117	49.1-148			

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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022039 - General Prep - Organics****LCS Dup (5022039-BSD1)**

Prepared &amp; Analyzed: 20-Feb-25

GRO C6-C10	233	10.0	mg/kg	200		117	81.5-123	1.75	13	
DRO >C10-C28	221	10.0	mg/kg	200		110	77.7-122	3.37	15.6	
Total TPH C6-C28	454	10.0	mg/kg	400		114	80.9-121	2.54	18.5	
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	48.2-134			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148			

**Batch 5022041 - General Prep - Organics****Blank (5022041-BLK1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.2		mg/kg	50.0		86.4	48.2-134			
Surrogate: 1-Chlorooctadecane	41.2		mg/kg	50.0		82.4	49.1-148			

**LCS (5022041-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	202	10.0	mg/kg	200		101	81.5-123			
DRO >C10-C28	190	10.0	mg/kg	200		94.9	77.7-122			
Total TPH C6-C28	392	10.0	mg/kg	400		97.9	80.9-121			
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	48.2-134			
Surrogate: 1-Chlorooctadecane	45.0		mg/kg	50.0		90.0	49.1-148			

**LCS Dup (5022041-BSD1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	202	10.0	mg/kg	200		101	81.5-123	0.110	13	
DRO >C10-C28	194	10.0	mg/kg	200		96.9	77.7-122	2.15	15.6	
Total TPH C6-C28	396	10.0	mg/kg	400		99.0	80.9-121	1.10	18.5	
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.2	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		89.1	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022042 - General Prep - Organics****Blank (5022042-BLK1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		97.0	48.2-134		
Surrogate: 1-Chlorooctadecane	46.5		mg/kg	50.0		93.1	49.1-148		

**LCS (5022042-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	206	10.0	mg/kg	200		103	81.5-123		
DRO >C10-C28	194	10.0	mg/kg	200		97.1	77.7-122		
Total TPH C6-C28	400	10.0	mg/kg	400		100	80.9-121		
Surrogate: 1-Chlorooctane	54.8		mg/kg	50.0		110	48.2-134		
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	49.1-148		

**LCS Dup (5022042-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	205	10.0	mg/kg	200		103	81.5-123	0.394	13
DRO >C10-C28	191	10.0	mg/kg	200		95.5	77.7-122	1.67	15.6
Total TPH C6-C28	396	10.0	mg/kg	400		99.1	80.9-121	1.01	18.5
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	48.2-134		
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	49.1-148		

**Batch 5022043 - General Prep - Organics****Blank (5022043-BLK1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	48.2-134		
Surrogate: 1-Chlorooctadecane	51.2		mg/kg	50.0		102	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:32

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022043 - General Prep - Organics****LCS (5022043-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	198	10.0	mg/kg	200		98.8	81.5-123		
DRO >C10-C28	193	10.0	mg/kg	200		96.4	77.7-122		
Total TPH C6-C28	390	10.0	mg/kg	400		97.6	80.9-121		
Surrogate: 1-Chlorooctane	55.8		mg/kg	50.0		112	48.2-134		
Surrogate: 1-Chlorooctadecane	58.0		mg/kg	50.0		116	49.1-148		

**LCS Dup (5022043-BS1)**

Prepared: 20-Feb-25 Analyzed: 21-Feb-25

GRO C6-C10	210	10.0	mg/kg	200		105	81.5-123	5.95	13
DRO >C10-C28	208	10.0	mg/kg	200		104	77.7-122	7.73	15.6
Total TPH C6-C28	418	10.0	mg/kg	400		105	80.9-121	6.83	18.5
Surrogate: 1-Chlorooctane	60.6		mg/kg	50.0		121	48.2-134		
Surrogate: 1-Chlorooctadecane	61.8		mg/kg	50.0		124	49.1-148		

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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>BILL TO</b>							<b>ANALYSIS REQUEST</b>											
Company Name: Ensolum, LLC							P.O. #:											
Project Manager: Ben Bellil							Company: XTO Energy											
Address: 601 N Marlenfeld Street, suite 400							Attn: Colton Brown											
City: Midland State: TX Zip: 79701							Address:											
Phone #: 989-854-0852 Fax #:							City:											
Project #: 03C1558583 Project Owner:							State: NM Zip:											
Project Name: Poker Lake Unit 30-19 BS 154H							Phone #:											
Project Location: 32.107150, -103.817460							Fax #:											
Sample Name: Uriel Santillana / Jesse Dorman																		
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	Chlorides	BTEX	TPH						
H251011	F531	10.5'	C	1	GROUNDWATER			2/19/25	1013	X	X	X						
	F526				WASTEWATER				1025									
	F527				SOIL				1022									
	F528				OIL				1032									
	F536				SLUDGE				1044									
	F537				OTHER :				1055									
	F538				ACID/BASE:				1053									
	F539				ICE / COOL				1056									
	F540				OTHER :				1101									
	F541																	

**PLEASE NOTE:** Tanking and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

<b>Relinquished By:</b>		Date: 2-20-25	Received By:	Verbal Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
<b>Relinquished By:</b>		Time: 1:50	Signature: [Handwritten]	All Results are emailed. Please provide Email address:	bbellil@ensolum.com kthomason@ensolum.com usantillana@ensolum.com	
<b>Relinquished By:</b>		Date:	Received By:	REMARKS: Rusty Reg. Depth Changes	Cost Code: 2258891001 Incident Number nAPP2434530896	
<b>Relinquished By:</b>		Time:	Received By:	Standard	<input checked="" type="checkbox"/>	Rush
<b>Turnaround Time:</b>		24 hr	Thermometer ID: 4443	Bacteria (only)	<input checked="" type="checkbox"/>	Sample Condition
<b>Delivered By: (Circle One)</b>		Observed Temp.: 18°C	Corrected Temp.: 15°C	Cool Intact	<input checked="" type="checkbox"/>	Observed Temp.: °C
<b>Sampler - UPS - Bus - Other:</b>		Corrected Temp.: °C	Corrosion Factor: 9.5°C	Cool Intact	<input type="checkbox"/>	Corrected Temp.: °C





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Please email changes to [celey.keene@cardinallab.snm.com](mailto:celey.keene@cardinallab.snm.com)





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST																							
Project Manager: Ben Bellill		Company: XTO Energy Inc.																											
Address: 3122 National Parks Hwy		Attn: Colton Brown																											
City: Carlsbad		Address: 3104 E. Green St.																											
Phone #: 989-854-0852		City: Carlsbad																											
Project #: 03C1556583		State: NM Zip: 88220																											
Project Name: Poker Lake Unit 30-19 BS 154H		Phone #:																											
Project Location: 32.107150, -103.817460		Fax #:																											
Sample Name: Jesse Dorman		Matrix:		PRESERV		SAMPLING																							
FOR LAB USE ONLY		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		BTEx		TPH		CHLORIDE	
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		DATE		TIME		BTEx		TPH		CHLORIDE											
H251011		F529		1' - 1.5'		C		1		2/19/25		1007		✓		✓		✓											
28		F530		✓		✓		✓		1046		✓		✓		✓		✓											
33		F533		✓		✓		✓		1045		✓		✓		✓		✓											
34		F534		✓		✓		✓		1047		✓		✓		✓		✓											
35		F535		✓		✓		✓		1118		✓		✓		✓		✓											
36		F542		✓		✓		✓		1127		✓		✓		✓		✓											
37		F543		✓		✓		✓		1131		✓		✓		✓		✓											
38		F544		✓		✓		✓		1136		✓		✓		✓		✓											
39		F545		✓		✓		✓		1123		✓		✓		✓		✓											
30		F546		✓		✓		✓																					
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Relinquished By: [Signature]		Date: 2/26/25		Time: 1402		Received By: [Signature]		Date: 2/26/25		Time: 1402		Received By: [Signature]		Date: 2/26/25		Time: 1402		Received By: [Signature]		Date: 2/26/25		Time: 1402		Received By: [Signature]		Date: 2/26/25		Time: 1402	
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:		1300		1500		Cool Intact Yes No		✓		440		440		440		✓		✓		✓		✓							

FORM-006 R 3.2 10/07/21

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





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> Ensolum, LLC		<b>P.O. #:</b>		<b>BILL TO</b>												
<b>Project Manager:</b> Ben Belli		<b>Company:</b> XTO Energy Inc.		<b>ANALYSIS REQUEST</b>												
<b>Address:</b> 3122 National Parks Hwy		<b>Attn:</b> Colton Brown														
<b>City:</b> Carlsbad	<b>State:</b> NM	<b>Zip:</b> 88220														
<b>Phone #:</b> 989-854-0852	<b>Fax #:</b>	<b>Address:</b> 3104 E. Green St.														
<b>Project #:</b> 03C155683	<b>Project Owner:</b> XTO	<b>City:</b> Carlsbad														
<b>Project Name:</b> Poker Lake Unit 30-19 BS 154H		<b>State:</b> NM	<b>Zip:</b> 88220													
<b>Project Location:</b> 32.107150, -103.817460		<b>Phone #:</b>														
<b>Sampler Name:</b> Jesse Dorman		<b>Fax #:</b>														
<b>FOR LAB USE ONLY</b>																
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>Sample Depth (feet)</b>	<b>(G)RAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>MATRIX</b>					<b>PRESERV.</b>	<b>SAMPLING</b>	<b>DATE</b>	<b>TIME</b>	<b>BTEX</b>	<b>TPH</b>	<b>CHLORIDE</b>
					<b>GROUNDWATER</b>	<b>WASTEWATER</b>	<b>SOIL</b>	<b>OIL</b>	<b>SLUDGE</b>							
HS1011	F556	1.5		4								2/19/25	1329			
	F557												1332			
	F558												1340			
	F559												1344			
	F560												1349			
	F571												1402			
	F572												1404			
	F573												1406			
	F551												1358			
	F552												1303			
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<b>Relinquished By:</b>		<b>Date:</b> 2/20/25	<b>Received By:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>											
<b>Relinquished By:</b>		<b>Time:</b> 1:00	<b>Received By:</b>		<b>All Results are emailed. Please provide Email address:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>											
<b>Relinquished By:</b>		<b>Date:</b>	<b>Received By:</b>		<b>Turnaround Time:</b> <input type="checkbox"/> Standard <input type="checkbox"/> Rush <b>Bacteria (only) Sample Condition</b>											
<b>Relinquished By:</b>		<b>Time:</b>	<b>Received By:</b>		<b>Thermometer ID:</b> #140 <b>Cool Intact</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Corrected Temp. °C</b>											
<b>Delivered By: (Circle One)</b>		<b>Observed Temp. °C</b>	<b>Sample Condition:</b>		<b>Checked By: (Initials)</b>											
<b>Sampler - UPS - Bus - Other:</b>		<b>Corrected Temp. °C</b>	<b>Cool Intact</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC							<b>BILL TO</b>							<b>ANALYSIS REQUEST</b>							
<b>Project Manager:</b> Ben Beill							<b>P.O. #:</b>														
<b>Address:</b> 601 N Marientfeld Street, suite 400							<b>Company:</b> XTO Energy														
<b>City:</b> Midland							<b>Attn:</b> Colton Brown														
<b>State:</b> TX <b>Zip:</b> 79701																					
<b>Phone #:</b> 989-854-0852							<b>Fax #:</b>														
<b>Project #:</b> 03C1558583							<b>City:</b>														
<b>Project Owner:</b>							<b>State:</b> NM <b>Zip:</b>														
<b>Project Location:</b> 32.107150, -103.817460							<b>Phone #:</b>														
<b>Sample Name:</b> Uriel Santillana / Jesse Dorman							<b>Fax #:</b>														
<b>FOR LAB USE ONLY</b>																					
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING										
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	DATE	TIME								
A2510L1	FS67	10.5'	C	1	X						X	2/19/25	1350	X	X	X	Chloride				
42	FS70		C	1									1355	X	X	X	BTEx				
43	FS63												1400				TPM				
44	FS53												1308								
45	FS54												1312								
46	FS55												1316								
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<b>Relinquished By:</b>	<b>Date:</b> 2-20-25	<b>Received By:</b>																			
<b>Time:</b> 1:00																					
<b>Date:</b>																					
<b>Time:</b>																					
<b>Relinquished By:</b>																					
<b>Received By:</b>																					
<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<b>Add'l Phone #:</b>																		
<b>All Results are emailed. Please provide Email address:</b>																					
bbeill@ensolum.com kthomason@ensolum.com usantillana@ensolum.com																					
<b>REMARKS:</b> *Customer Reg. Depth change																					
<b>Cost Code:</b> 2258891001 Incident Number nAPP2434530896																					
<b>Turnaround Time:</b> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> <b>Thermometer ID:</b> #113 <b>Rush</b> <b>Correction Factor:</b> 0.3°C <b>Standard</b>																					
<b>Bacteria (only):</b> Bacteria Intact <input type="checkbox"/> Cool Intact <input type="checkbox"/> 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:** Ben Bellill

**Address:** 601 N Marlenfeld Street, suite 400

**City:** Midland **State:** TX **zip:** 79701

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

**Project #:** 03C1558583 **Project Owner:**

**Project Name:** Poker Lake Unit 30-19 BS 154H

**Project Location:** 32.107150, -103.817460

**Sampler Name:** Uriel Santillana

FOR LAB USE ONLY

**P.O. #:**

**Company:** XTO Energy

**Attn:** Colton Brown

**Address:**

**City:**

**State:** NM **Zip:**

**Phone #:**

**Fax #:**

**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**

**MATRIX**

**PRESERV.**

**SAMPLING**

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
47	CS10	0.5'		1			X					X		2/19/25	1315	X	X	X
48	CS11														1320	X	X	X
49	CS12														1325	X	X	X
50	CS13														1330	X	X	X
51	CS14														1335	X	X	X
52	CS09														1115	X	X	X

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**Relinquished By:** [Signature]

**Date:** 8/26/25

**Time:** 1400

**Received By:** [Signature]

**Date:**

**Time:**

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

**Cost Code:** 2258891001 **Incident Number:** nAPP2434530896

**Delivered By:** (Circle One) ☒ Observed Temp. °C: 12.0 ☐ Corrected Temp. °C: 1.5

**Sampler:** UPS - Bus - Other:

**Sample Condition:** ☒ Cool ☐ Intact ☐ Yes ☐ No

**CHECKED BY:** [Signature] (Initials)

**Turnaround Time:** 24 hr ☒ Standard ☐ Bacteria (only) ☐ Cool ☐ Intact ☐ Yes ☐ No

**Thermometer ID:** 443 **Correction Factor:** 0.3°C





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

---

February 25, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 12:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 15 .5' (H251068-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.12	106	2.00	3.94	
Toluene*	<0.050	0.050	02/24/2025	ND	2.28	114	2.00	5.64	
<b>Ethylbenzene*</b>	<b>0.053</b>	0.050	02/24/2025	ND	2.32	116	2.00	5.18	GC-NC1
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.19	120	6.00	3.49	
Total BTX	<0.300	0.300	02/24/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>14600</b>	16.0	02/25/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	201	101	200	3.81	
<b>DRO &gt;C10-C28*</b>	<b>670</b>	10.0	02/24/2025	ND	183	91.6	200	7.19	
<b>EXT DRO &gt;C28-C36</b>	<b>101</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 16 .5' (H251068-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.12	106	2.00	3.94		
Toluene*	<0.050	0.050	02/24/2025	ND	2.28	114	2.00	5.64		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.18		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.19	120	6.00	3.49		
Total BTEX	<0.300	0.300	02/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	02/25/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	201	101	200	3.81	
DRO >C10-C28*	80.1	10.0	02/25/2025	ND	183	91.6	200	7.19	
EXT DRO >C28-C36	10.2	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 17 .5' (H251068-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.12	106	2.00	3.94		
Toluene*	<0.050	0.050	02/24/2025	ND	2.28	114	2.00	5.64		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.18		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.19	120	6.00	3.49		
Total BTX	<0.300	0.300	02/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	02/25/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	201	101	200	3.81	
DRO >C10-C28*	70.9	10.0	02/25/2025	ND	183	91.6	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 18 .5' (H251068-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.12	106	2.00	3.94		
Toluene*	<0.050	0.050	02/24/2025	ND	2.28	114	2.00	5.64		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.18		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.19	120	6.00	3.49		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	3440	16.0	02/25/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	201	101	200	3.81	
DRO >C10-C28*	17.7	10.0	02/25/2025	ND	183	91.6	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 19 .5' (H251068-05)**

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	02/24/2025	ND	2.12	106	2.00	3.94		
Toluene*	<0.050	0.050	02/24/2025	ND	2.28	114	2.00	5.64		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.18		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.19	120	6.00	3.49		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	11000	16.0	02/25/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	201	101	200	3.81	
DRO >C10-C28*	2550	10.0	02/25/2025	ND	183	91.6	200	7.19	
EXT DRO >C28-C36	381	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 20 .5' (H251068-06)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.12	106	2.00	3.94		
Toluene*	<0.050	0.050	02/24/2025	ND	2.28	114	2.00	5.64		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.18		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.19	120	6.00	3.49		
Total BTX	<0.300	0.300	02/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/25/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	201	101	200	3.81	
DRO >C10-C28*	12.4	10.0	02/25/2025	ND	183	91.6	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 21 .5' (H251068-07)**

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	02/24/2025	ND	2.12	106	2.00	3.94		
Toluene*	<0.050	0.050	02/24/2025	ND	2.28	114	2.00	5.64		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.18		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.19	120	6.00	3.49		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	384	16.0	02/25/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	201	101	200	3.81	
DRO >C10-C28*	<10.0	10.0	02/25/2025	ND	183	91.6	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 22 .5' (H251068-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.12	106	2.00	3.94		
Toluene*	<0.050	0.050	02/24/2025	ND	2.28	114	2.00	5.64		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.18		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.19	120	6.00	3.49		
Total BTX	<0.300	0.300	02/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/25/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2025	ND	201	101	200	3.81	
DRO >C10-C28*	34.7	10.0	02/25/2025	ND	183	91.6	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 23 .5' (H251068-09)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44	
Total BTX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/25/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	36.5	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 24 .5' (H251068-10)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00		
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	02/25/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	142	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	27.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 25 .5' (H251068-11)**

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	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	0.102	0.050	02/24/2025	ND	2.10	105	2.00	1.43	GC-NC1
Total Xylenes*	0.292	0.150	02/24/2025	ND	6.20	103	6.00	1.44	GC-NC1
Total BTEX	0.394	0.300	02/24/2025	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1640	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.7	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	387	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	53.5	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 26 .5' (H251068-12)**

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	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	0.203	0.050	02/24/2025	ND	2.10	105	2.00	1.43	GC-NC1
Total Xylenes*	0.563	0.150	02/24/2025	ND	6.20	103	6.00	1.44	GC-NC1
Total BTEX	0.765	0.300	02/24/2025	ND					GC-NC1

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	1880	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	34.3	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	743	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	94.7	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 27 .5' (H251068-13)**

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	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44	
Total BTEX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	2280	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	168	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	26.4	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 28 .5' (H251068-14)**

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	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44	
Total BTEX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	02/25/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	234	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	35.6	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 29 .5' (H251068-15)**

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	02/24/2025	ND	2.19	110	2.00	2.00		
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	436	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	74.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 30 .5' (H251068-16)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44	
Total BTX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	30.5	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 31 .5' (H251068-17)**

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	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44	
Total BTEX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	14.5	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 32 .5' (H251068-18)**

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	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	0.085	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43	
Total Xylenes*	0.560	0.150	02/24/2025	ND	6.20	103	6.00	1.44	GC-NC1
Total BTEX	0.645	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	240	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
<b>DRO &gt;C10-C28*</b>	<b>23.8</b>	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 33 .5' (H251068-19)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00		
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	240	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	22.4	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 34 .5' (H251068-20)**

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	02/24/2025	ND	2.19	110	2.00	2.00		
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	320	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	16.4	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 35 .5' (H251068-21)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44	
Total BTX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	768	16.0	02/25/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	22.5	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 36 .5' (H251068-22)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44	
Total BTX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	432	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	26.6	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 37 .5' (H251068-23)**

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	02/24/2025	ND	2.19	110	2.00	2.00		
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44		
Total BTEx	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/25/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	21.9	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 38 .5' (H251068-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00		
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91		
Ethylbenzene*	0.061	0.050	02/24/2025	ND	2.10	105	2.00	1.43	GC-NC1	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44		
Total BTEx	<0.300	0.300	02/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.7	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	660	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	86.4	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 39 .5' (H251068-25)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00		
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	1360	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	58.8	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 68.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 40 .5' (H251068-26)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.10	105	2.00	1.43	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.20	103	6.00	1.44	
Total BTX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	73.0	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	12.1	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 41 .5' (H251068-27)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	0.077	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	0.915	0.050	02/24/2025	ND	2.10	105	2.00	1.43	GC-NC1
Total Xylenes*	2.69	0.150	02/24/2025	ND	6.20	103	6.00	1.44	GC-NC1
Total BTX	3.69	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 146 % 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	7760	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	171	10.0	02/24/2025	ND	211	106	200	0.814	
DRO >C10-C28*	2800	10.0	02/24/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	342	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 142 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 42 .5' (H251068-28)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	2.00	
Toluene*	<0.050	0.050	02/24/2025	ND	2.21	110	2.00	1.91	
Ethylbenzene*	0.316	0.050	02/24/2025	ND	2.10	105	2.00	1.43	GC-NC1
Total Xylenes*	0.545	0.150	02/24/2025	ND	6.20	103	6.00	1.44	GC-NC1
Total BTEX	0.861	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	3320	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	33.3	10.0	02/25/2025	ND	211	106	200	0.814	
DRO >C10-C28*	824	10.0	02/25/2025	ND	204	102	200	0.825	
EXT DRO >C28-C36	120	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 43 .5' (H251068-29)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.61	110	6.00	1.30		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	576	16.0	02/25/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	59.5	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 44 .5' (H251068-30)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	496	16.0	02/25/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	32.2	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 45 .5' (H251068-31)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	0.0960	
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	1.05	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.19	109	2.00	1.37	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.61	110	6.00	1.30	
Total BTX	<0.300	0.300	02/24/2025	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	656	16.0	02/25/2025	ND	464	116	400	7.14	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	74.4	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 46 .5' (H251068-32)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/24/2025	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	672	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 47 .5' (H251068-33)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	0.0960	
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	1.05	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.19	109	2.00	1.37	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.61	110	6.00	1.30	
Total BTX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	2640	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	58.7	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 48 .5' (H251068-34)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	6640	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	831	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	83.2	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 49 .5' (H251068-35)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	6600	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	128	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 50 .5' (H251068-36)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960	
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05	
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37	
<b>Total Xylenes*</b>	<b>0.713</b>	0.150	02/25/2025	ND	6.61	110	6.00	1.30	
<b>Total BTX</b>	<b>0.713</b>	0.300	02/25/2025	ND					

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

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6900</b>	16.0	02/25/2025	ND	464	116	400	7.14	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>159</b>	10.0	02/24/2025	ND	219	109	200	1.45	
<b>DRO &gt;C10-C28*</b>	<b>2910</b>	10.0	02/24/2025	ND	218	109	200	3.84	
<b>EXT DRO &gt;C28-C36</b>	<b>271</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 51 .5' (H251068-37)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960	
Toluene*	<b>0.359</b>	0.050	02/25/2025	ND	2.22	111	2.00	1.05	
Ethylbenzene*	<b>0.414</b>	0.050	02/25/2025	ND	2.19	109	2.00	1.37	GC-NC1
Total Xylenes*	<b>9.31</b>	0.150	02/25/2025	ND	6.61	110	6.00	1.30	GC-NC1
Total BTEX	<b>10.1</b>	0.300	02/25/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 185 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>3440</b>	16.0	02/25/2025	ND	464	116	400	7.14	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>397</b>	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	<b>3800</b>	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<b>373</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 52 .5' (H251068-38)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	704	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	35.3	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 53 .5' (H251068-39)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	19.2	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 02/24/2025  
 Reported: 02/25/2025  
 Project Name: POKER LAKE UNIT 30-19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 54 .5' (H251068-40)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	640	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	66.7	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 55 .5' (H251068-41)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	3080	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	270	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	26.1	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 56 .5' (H251068-42)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEx	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	464	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	326	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	38.6	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 57 .5' (H251068-43)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/25/2025	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	1420	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	46.2	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 58 .5' (H251068-44)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEx	<0.300	0.300	02/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	15.6	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 02/24/2025  
 Reported: 02/25/2025  
 Project Name: POKER LAKE UNIT 30-19 BS 154H  
 Project Number: 03C1558583  
 Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 59 .5' (H251068-45)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	720	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	145	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 60 .5' (H251068-46)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960		
Toluene*	<0.050	0.050	02/25/2025	ND	2.22	111	2.00	1.05		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.19	109	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.61	110	6.00	1.30		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	704	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	51.7	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 61 .5' (H251068-47)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/25/2025	ND	2.19	110	2.00	0.0960	GC-NC
Toluene*	7.39	0.100	02/25/2025	ND	2.22	111	2.00	1.05	
Ethylbenzene*	3.22	0.100	02/25/2025	ND	2.19	109	2.00	1.37	GC-NC1
Total Xylenes*	41.3	0.300	02/25/2025	ND	6.61	110	6.00	1.30	GC-NC1
Total BTEX	51.9	0.600	02/25/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 206 % 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	5280	16.0	02/25/2025	ND	464	116	400	7.14		

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*	1030	10.0	02/24/2025	ND	219	109	200	1.45	
DRO >C10-C28*	3900	10.0	02/24/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	374	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 174 % 48.2-134

Surrogate: 1-Chlorooctadecane 150 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 62 .5' (H251068-48)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2025	ND	2.19	110	2.00	0.0960	
Toluene*	<b>0.159</b>	0.050	02/25/2025	ND	2.22	111	2.00	1.05	
Ethylbenzene*	<b>0.211</b>	0.050	02/25/2025	ND	2.19	109	2.00	1.37	GC-NC1
Total Xylenes*	<b>4.48</b>	0.150	02/25/2025	ND	6.61	110	6.00	1.30	GC-NC1
Total BTX	<b>4.85</b>	0.300	02/25/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 164 % 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	<b>9680</b>	16.0	02/25/2025	ND	464	116	400	7.14	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>202</b>	10.0	02/25/2025	ND	219	109	200	1.45	
DRO >C10-C28*	<b>2810</b>	10.0	02/25/2025	ND	218	109	200	3.84	
EXT DRO >C28-C36	<b>288</b>	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 63 .5' (H251068-49)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	0.127	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	0.277	0.050	02/24/2025	ND	2.32	116	2.00	5.43	GC-NC1
Total Xylenes*	5.38	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1, QM-07
Total BTEX	5.78	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	9000	16.0	02/25/2025	ND	464	116	400	7.14		

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	221	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	2160	10.0	02/24/2025	ND	178	89.2	200	4.21	QM-07
EXT DRO >C28-C36	213	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 64 .5' (H251068-50)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43	
<b>Total Xylenes*</b>	<b>0.372</b>	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1
<b>Total BTX</b>	<b>0.372</b>	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>8660</b>	16.0	02/25/2025	ND	464	116	400	7.14	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>51.4</b>	10.0	02/24/2025	ND	205	103	200	4.33	
<b>DRO &gt;C10-C28*</b>	<b>1730</b>	10.0	02/24/2025	ND	178	89.2	200	4.21	
<b>EXT DRO &gt;C28-C36</b>	<b>212</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 65 .5' (H251068-51)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	0.197	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	0.375	0.050	02/24/2025	ND	2.32	116	2.00	5.43	GC-NC1
Total Xylenes*	6.23	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1
Total BTEX	6.80	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	11000	16.0	02/25/2025	ND	416	104	400	7.41	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	224	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	2230	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	242	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 66 .5' (H251068-52)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	<b>0.062</b>	0.050	02/24/2025	ND	2.32	116	2.00	5.43	GC-NC1
<b>Total Xylenes*</b>	<b>1.27</b>	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1
<b>Total BTX</b>	<b>1.33</b>	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 155 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3000</b>	16.0	02/25/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>47.5</b>	10.0	02/24/2025	ND	205	103	200	4.33	
<b>DRO &gt;C10-C28*</b>	<b>691</b>	10.0	02/24/2025	ND	178	89.2	200	4.21	
<b>EXT DRO &gt;C28-C36</b>	<b>82.0</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 67 .5' (H251068-53)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	1.17	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	0.605	0.050	02/24/2025	ND	2.32	116	2.00	5.43	GC-NC1
Total Xylenes*	12.7	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1
Total BTEX	14.4	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	15200	16.0	02/25/2025	ND	416	104	400	7.41		

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*	462	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	5440	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	723	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 251 % 48.2-134

Surrogate: 1-Chlorooctadecane 157 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 68 .5' (H251068-54)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	<b>0.804</b>	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	<b>0.407</b>	0.050	02/24/2025	ND	2.32	116	2.00	5.43	GC-NC1
Total Xylenes*	<b>7.18</b>	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1
Total BTX	<b>8.39</b>	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>9400</b>	16.0	02/25/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>153</b>	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	<b>2550</b>	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<b>363</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 69 .5' (H251068-55)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	0.803	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	0.530	0.050	02/24/2025	ND	2.32	116	2.00	5.43	GC-NC1
Total Xylenes*	9.94	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1
Total BTEX	11.3	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	227	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	1700	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	194	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 70 .5' (H251068-56)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43		
Total Xylenes*	0.438	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1	
Total BTEX	0.438	0.300	02/24/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
<b>DRO &gt;C10-C28*</b>	<b>55.6</b>	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 71 .5' (H251068-57)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.08	118	6.00	5.47		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 72 .5' (H251068-58)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.08	118	6.00	5.47		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/25/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 73 .5' (H251068-59)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.08	118	6.00	5.47		
Total BTEx	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 74 .5' (H251068-60)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.08	118	6.00	5.47	
Total BTEX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	448	16.0	02/25/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 75 .5' (H251068-61)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.08	118	6.00	5.47		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	368	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	16.7	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 76 .5' (H251068-62)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43	
<b>Total Xylenes*</b>	<b>0.488</b>	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1
<b>Total BTEX</b>	<b>0.488</b>	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1400</b>	16.0	02/25/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>19.1</b>	10.0	02/24/2025	ND	205	103	200	4.33	
<b>DRO &gt;C10-C28*</b>	<b>437</b>	10.0	02/24/2025	ND	178	89.2	200	4.21	
<b>EXT DRO &gt;C28-C36</b>	<b>37.7</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 77 .5' (H251068-63)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	0.102	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43	
Total Xylenes*	0.769	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1
Total BTEX	0.871	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	416	16.0	02/25/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
<b>DRO &gt;C10-C28*</b>	<b>22.2</b>	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 78 .5' (H251068-64)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.08	118	6.00	5.47		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 79 .5' (H251068-65)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93	
Toluene*	<b>0.183</b>	0.050	02/24/2025	ND	2.22	111	2.00	5.16	
Ethylbenzene*	<b>0.193</b>	0.050	02/24/2025	ND	2.32	116	2.00	5.43	GC-NC1
Total Xylenes*	<b>3.95</b>	0.150	02/24/2025	ND	7.08	118	6.00	5.47	GC-NC1
Total BTX	<b>4.33</b>	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 175 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>1040</b>	16.0	02/25/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>70.9</b>	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	<b>474</b>	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<b>39.3</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 80 .5' (H251068-66)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.08	118	6.00	5.47		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	1120	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	25.7	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 81 .5' (H251068-67)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43		
<b>Total Xylenes*</b>	<b>0.174</b>	0.150	02/24/2025	ND	7.08	118	6.00	5.47		
Total BTEX	<0.300	0.300	02/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
<b>DRO &gt;C10-C28*</b>	<b>27.6</b>	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 82 .5' (H251068-68)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.16	108	2.00	3.93		
Toluene*	<0.050	0.050	02/24/2025	ND	2.22	111	2.00	5.16		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.32	116	2.00	5.43		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.08	118	6.00	5.47		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	2880	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	205	103	200	4.33	
DRO >C10-C28*	25.2	10.0	02/24/2025	ND	178	89.2	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 83 .5' (H251068-69)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<b>0.110</b>	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<b>0.129</b>	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	<b>2.29</b>	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTX	<b>2.53</b>	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 142 % 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	<b>8200</b>	16.0	02/25/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>70.2</b>	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	<b>1360</b>	10.0	02/24/2025	ND	193	96.3	200	2.12	QM-07
EXT DRO >C28-C36	<b>133</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 84 .5' (H251068-70)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	0.072	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	0.073	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	1.59	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTEX	1.73	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	02/25/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	40.7	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	1270	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	124	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 85 .5' (H251068-71)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	0.059	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	0.069	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	1.51	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTEX	1.64	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	3200	16.0	02/25/2025	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	32.8	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	640	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	57.9	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 86 .5' (H251068-72)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91		
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12		
<b>Total Xylenes*</b>	<b>0.719</b>	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1	
<b>Total BTEX</b>	<b>0.719</b>	0.300	02/24/2025	ND					GC-NC1	

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	
<b>Chloride</b>	<b>1880</b>	16.0	02/25/2025	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	02/24/2025	ND	213	106	200	0.569	
<b>DRO &gt;C10-C28*</b>	<b>162</b>	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 87 .5' (H251068-73)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	1.42	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	0.805	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	15.3	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTEx	17.6	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 209 % 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	5520	16.0	02/25/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	617	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	5430	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	537	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 172 % 48.2-134

Surrogate: 1-Chlorooctadecane 182 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 88 .5' (H251068-74)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	0.077	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	0.093	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	1.82	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTEx	1.99	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 138 % 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	2760	16.0	02/25/2025	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*	58.3	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	970	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	96.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 89 .5' (H251068-75)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	0.131	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	0.197	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	3.25	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTEX	3.58	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 149 % 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	<b>4400</b>	16.0	02/25/2025	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*	<b>127</b>	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	<b>1280</b>	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	<b>122</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 107 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 90 .5' (H251068-76)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.24	121	6.00	7.01	
Total BTX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	640	16.0	02/25/2025	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	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 91 .5' (H251068-77)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.24	121	6.00	7.01	
Total BTEX	<0.300	0.300	02/24/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/25/2025	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	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	13.7	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 92 .5' (H251068-78)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	0.115	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	0.089	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	1.75	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTEX	1.96	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	6960	16.0	02/25/2025	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*	55.2	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	1450	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	191	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 93 .5' (H251068-79)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<b>0.789</b>	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<b>0.462</b>	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	<b>8.32</b>	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTX	<b>9.57</b>	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 157 % 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	<b>2160</b>	16.0	02/25/2025	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*	<b>320</b>	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	<b>2390</b>	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	<b>361</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 94 .5' (H251068-80)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12	
Total Xylenes*	0.161	0.150	02/24/2025	ND	7.24	121	6.00	7.01	
Total BTX	<0.300	0.300	02/24/2025	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	528	16.0	02/25/2025	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	02/24/2025	ND	213	106	200	0.569	
<b>DRO &gt;C10-C28*</b>	<b>44.3</b>	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 95 .5' (H251068-81)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12	
Total Xylenes*	0.615	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTEX	0.615	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	752	16.0	02/25/2025	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	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	274	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	29.9	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/20/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 96 .5' (H251068-82)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	0.196	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	0.116	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	2.26	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTX	2.57	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 139 % 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	20200	16.0	02/25/2025	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*	58.3	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	2780	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	336	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/21/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 97 .5' (H251068-83)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91		
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12		
<b>Total Xylenes*</b>	<b>0.673</b>	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1	
<b>Total BTEX</b>	<b>0.673</b>	0.300	02/24/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	17400	16.0	02/25/2025	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*	29.1	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	2990	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	381	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/21/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 98 .5' (H251068-84)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<b>0.380</b>	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<b>0.239</b>	0.050	02/24/2025	ND	2.40	120	2.00	7.12	GC-NC1
Total Xylenes*	<b>4.00</b>	0.150	02/24/2025	ND	7.24	121	6.00	7.01	GC-NC1
Total BTX	<b>4.62</b>	0.300	02/24/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 146 % 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	<b>1010</b>	16.0	02/25/2025	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*	<b>105</b>	10.0	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	<b>702</b>	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	<b>59.8</b>	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/21/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 99 .5' (H251068-85)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.24	121	6.00	7.01	
Total BTX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	1630	16.0	02/25/2025	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	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	111	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/21/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 100 .5' (H251068-86)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.24	121	6.00	7.01	
Total BTX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	11600	16.0	02/25/2025	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	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	991	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	150	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/21/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 101 .5' (H251068-87)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91	
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.24	121	6.00	7.01	
Total BTX	<0.300	0.300	02/24/2025	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	832	16.0	02/25/2025	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	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	63.9	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/21/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 102 .5' (H251068-88)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	2.19	110	2.00	1.91		
Toluene*	<0.050	0.050	02/24/2025	ND	2.23	112	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.40	120	2.00	7.12		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	7.24	121	6.00	7.01		
Total BTEx	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	2080	16.0	02/25/2025	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	02/24/2025	ND	213	106	200	0.569	
DRO >C10-C28*	188	10.0	02/24/2025	ND	193	96.3	200	2.12	
EXT DRO >C28-C36	16.3	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/21/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 103 .5' (H251068-89)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.86	93.0	2.00	1.96		
Toluene*	<0.050	0.050	02/24/2025	ND	1.94	96.8	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.85	92.7	2.00	1.74		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.44	90.7	6.00	1.91		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	1920	16.0	02/25/2025	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	02/25/2025	ND	203	101	200	1.16	
DRO >C10-C28*	175	10.0	02/25/2025	ND	195	97.4	200	0.368	
EXT DRO >C28-C36	31.6	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/24/2025  
Reported: 02/25/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 02/21/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 104 .5' (H251068-90)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.86	93.0	2.00	1.96		
Toluene*	<0.050	0.050	02/24/2025	ND	1.94	96.8	2.00	2.08		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.85	92.7	2.00	1.74		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.44	90.7	6.00	1.91		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	592	16.0	02/25/2025	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	02/25/2025	ND	203	101	200	1.16	
DRO >C10-C28*	25.8	10.0	02/25/2025	ND	195	97.4	200	0.368	
EXT DRO >C28-C36	<10.0	10.0	02/25/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		<b>BILL TO</b>		P. O. #:		ANALYSIS REQUEST	
Project Manager: Ben Beill				Company: XTO Energy Inc.			
Address: 3122 National Parks Hwy				Attn: Colton Brown			
City: Carlsbad		State: NM Zip: 88220		Address: 3104 E. Green St.			
Phone #: 989-854-0852		Fax #:		City: Carlsbad			
Project #: 03C1558583		Project Owner: XTO		State: NM Zip: 88220			
Project Name: Poker Lake Unit 30-19 BS 154H		Phone #:					
Project Location: 32.107150, -103.817460		Fax #:					
Sampler Name: Jesse Dorman							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV
					GROUNDWATER		
					WASTEWATER		
					SOIL		
					OIL		
					SLUDGE		
					OTHER :		
					ACID/BASE:		
					ICE / COOL		
					OTHER :		
					DATE	TIME	
HS1068	CS15	.5'	C	1	2/20/15	9:25	X
	CS16						X
	CS17						X
	CS18						
	CS19						
	CS20						
	CS21						
	CS22						
	CS23						
	CS24						
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Relinquished By:		Date: 2-24-15	Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		
Relinquished By:		Date: 12-30	Received By:		All Results are emailed. Please provide Email address: BBeill@ensolum.com TMorrissey@ensolum.com khomasen@ensolum.com		
Relinquished By:		Date:	Received By:		REMARKS: Cost Center: 2258891001 Incident ID: nAPP2434530896		
Delivered By: (Circle One)		Observed Temp. °C: -0.7	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: [Signature]		
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -0.4	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Turnaround Time: 11:40 to 10:30 Standard Rush <input type="checkbox"/> 24 hr <input checked="" type="checkbox"/> Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrected Temp. °C:		





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		<b>BILL TO</b>									
Project Manager: Ben Bejill		P.O. #:		<b>ANALYSIS REQUEST</b>							
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.									
City: Carlsbad		Attn: Colton Brown									
Phone #: 989-854-0852		Address: 3104 E. Green St.									
Fax #: 03C1558583		City: Carlsbad									
Project Name: Poker Lake Unit 30-19 BS 154H		State: NM Zip: 88220									
Project Location: 32.107150, -103.817460		Phone #:									
Sampler Name: Jesse Dorman		Fax #:									
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE							
11/10/08	C525	.5'	C	1			X				X	944		X		
	C526											948		X		
	C527											950				
	C528											1000				
	C529											942				
	C530											944				
	C531											1216				
	C532											1213				
	C533											1000				
	C534											957				

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**Reinquished By:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Received By:** \_\_\_\_\_

Relinquished By: <u>Edison</u>		Date: <u>3/24/25</u> Time: <u>12:30</u>		Received By: <u>Specklin</u>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Date:		Received By:		All Results are emailed. Please provide Email address:		Thillard@ensolum.com	
Time:		Received By:		REMARKS:		BBellill@ensolum.com		Morrissey@ensolum.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C: <u>-0.7</u> <u>-0.4</u>		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials) <u>SK</u>		Turnaround Time: <u>40 to 60</u>	
Cost Center: 2258891004		Incident ID: nAPP2434530896		Thermometer ID #13		Standard Rush <input checked="" type="checkbox"/>		Bacteria (only) <input type="checkbox"/>	
Correction Factor: 0.6°C		Incident ID:		Yes <input type="checkbox"/> No <input type="checkbox"/>		Cool Intact <input type="checkbox"/>		Sample Condition	
Corrected Temp. °C		Incident ID:		Yes <input type="checkbox"/> No <input type="checkbox"/>		Cool Intact <input type="checkbox"/>		Observed Temp. °C	
Corrected Temp. °C		Incident ID:		Yes <input type="checkbox"/> No <input type="checkbox"/>		Cool Intact <input type="checkbox"/>		Observed Temp. °C	

FORM-006 R 3.2 10/07/21

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>														
<b>Project Manager:</b> Ben Beill				<b>P.O. #:</b>																		
<b>Address:</b> 3122 National Parks Hwy				<b>Company:</b> XTO Energy Inc.																		
<b>City:</b> Carlsbad	<b>State:</b> NM			<b>Zip:</b> 88220			<b>Attn:</b> Colton Brown															
<b>Phone #:</b> 989-854-0852	<b>Fax #:</b>			<b>Address:</b> 3104 E. Green St.																		
<b>Project #:</b> 03C1558583	<b>Project Owner:</b> XTO			<b>City:</b> Carlsbad																		
<b>Project Name:</b> Poker Lake Unit 30-19 BS 154H				<b>State:</b> NM				<b>Zip:</b> 88220														
<b>Project Location:</b> 32.107150, -103.817460				<b>Phone #:</b>																		
<b>Sampler Name:</b> Jesse Dorman				<b>Fax #:</b>																		
<small>FOR LAB USE ONLY</small>																						
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	BTEX	TPH	CHLORIDE				
H2S1468	C545	.5'	C	1	X									12/26	12:25	X	X	X				
	C546													12:26								
	C547													12:27								
	C548													12:32								
	C549													12:33								
	C550													12:34								
	C551													12:23								
	C552													12:26								
	C553													12:28								
	C554													12:30								

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<b>Relinquished By:</b>	<b>Date:</b> 12/26/25	<b>Received By:</b>	<b>Cost Center:</b> 2258891001	<b>Incident ID:</b> nAPPE2434530896
<b>Relinquished By:</b>	<b>Date:</b> 12/30	<b>Received By:</b>		
<b>REMARKS:</b>				
All Results are emailed. Please provide Email address: TThillard@ensolum.com				
BBeill@ensolum.com T Morrissey@ensolum.com kthomas@ensolum.com				
<b>Verbal Result:</b> Yes No OK Add'l Phone #:				
<b>Thermometer ID #113</b> Standard Rush Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C				



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		P.O. #:		BILL TO										ANALYSIS REQUEST														
Project Manager: Ben Beil				Company: XTO Energy Inc.																								
Address: 3122 National Parks Hwy				Attn: Colton Brown																								
City: Carlsbad		State: NM Zip: 88220		Address: 3104 E. Green St.																								
Phone #: 989-854-0852		Fax #:		City: Carlsbad																								
Project #: 03C1558583		Project Owner: XTO		State: NM Zip: 88220																								
Project Name: Poker Lake Unit 30-19 BS 154H		Phone #:																										
Project Location: 32.107150, -103.817460		Fax #:																										
Sampler Name: Jesse Dorman																												
FOR LAB USE ONLY																												
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	CHLORIDE										
H251068	C555	5'	C	1			X							12/20/05	1233	X	X	X										
41	C556													1236		X	X											
42	C557													1238		X	X											
43	C558													1241		X	X											
44	C559													1243		X	X											
45	C560													1237		X	X											
46	C561													1238		X	X											
47	C562													1314		X	X											
48	C563													1315		X	X											
49	C564													1258		X	X											
PLEASE NOTE: Liability and Damages, Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																												
Relinquished By: <i>[Signature]</i>		Date: 8/24/05	Received By: <i>[Signature]</i>																									
Relinquished By: <i>[Signature]</i>		Date: 12/30	Received By: <i>[Signature]</i>																									
Time: 12:30																												
Delivered By: (Circle One)		Observed Temp.: -0.1°C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <i>[Signature]</i>																								
Sampler - UPS - Bus - Other:		Corrected Temp.: -0.4°C	Yes <input type="checkbox"/> No <input type="checkbox"/>																									
		Turnaround Time: #140 +0.3	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>																									
		Thermometer ID #113	Yes <input type="checkbox"/> No <input type="checkbox"/>																									
		Correction Factor: 0.0°C	Bacteria (only) <input type="checkbox"/> Sample Condition Cool Intact <input type="checkbox"/> Observed Temp.: °C																									
			Corrected Temp.: °C																									
		Cost Center: 2258891001	Incident ID: nAPP2434530896																									
		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:																									
		All Results are emailed. Please provide Email address: BBeil@ensolum.com	Thillard@ensolum.com																									
		REMARKS: T Morrissey@ensolum.com	khomason@ensolum.com																									

FORM-006 R 3.2 10/07/21

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





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: Ben Beill		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.			
City: Carlsbad		Attn: Colton Brown			
Phone #: 989-854-0852		Address: 3104 E. Green St.			
Fax #: 03C1558583		City: Carlsbad			
Project #: 03C1558583		State: NM Zip: 88220			
Project Name: Poker Lake Unit 30-19 BS 154H		Phone #:			
Project Location: 32.107150, -103.817460		Fax #:			
Sampler Name: Jesse Dorman					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	ANALYSIS REQUEST				
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			BTEX	TPH	CHLORIDE		
4251068	CS65	.5'	C	1	X					2/20/05	1254	X	X	X		
51	CS66									1248						
53	CS67									1245						
54	CS68									1238						
55	CS69									1242						
56	CS70									1300						
57	CS71									1317						
58	CS72									1315						
59	CS73									1319						
60	CS74									1403						

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Relinquished By: Jesse Dorman	Date: 2/20/05	Received By: Steddie King	Time: 1230
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Signature)
Turnaround Time: 140 to 10:30	Thermometer ID: 4419	Standard Rush <input checked="" type="checkbox"/> <u>24hr</u>	Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Observed Temp. °C
Cost Center: 2258891001	Incident ID: nAPP2434530896	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
All Results are emailed. Please provide Email address:		Thillard@ensolum.com	
BBeill@ensolum.com		T Morrissey@ensolum.com	
kthomason@ensolum.com			



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

	Lab I.D.	Sample I.D.	Sample Depth (feet)	MATRIX	PRESERV.	SAMPLING	BTEX	TPH	CHLORIDE							
				(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL OTHER :	DATE	TIME								
#HS1068	b1	C575	.5'	G	X		2/29/05	1426	X							
	b2	C576		1				1428	X							
	b3	C577						1430	X							
	b4	C578						1433								
	b5	C579						1436								
	b6	C580						1440								
	b7	C581						1448								
	b8	C582						1450								
	b9	C583						1452								
	b10	C584						1454								

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[illegible]





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Ensolum, LLC
Project Manager:	Ben Beill
Address:	3122 National Parks Hwy
City:	Carlsbad
Phone #:	989-854-0852
Project #:	03C1558583
Project Name:	Poker Lake Unit 30-19 BS 154H
Project Location:	32.107150, -103.817460
Sampler Name:	Jesse Dorman

<b>BILL TO</b>		ANALYSIS REQUEST				
P.O. #:						
Company:	XTO Energy Inc.					
Attn:	Colton Brown					
Address:	3104 E. Green St.					
City:	Carlsbad					
State:	NM					
Zip:	88220					
Phone #:						
Fax #:						

FOR LAB USE ONLY						
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV	SAMPLING
				GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE TIME
H251068	C585	.5'	C	X		2/20/25 1456
71	C586		1			1458
72	C587					1503
73	C588					1505
74	C589					1506
75	C590					1508
76	C591					1520
77	C592					1513
78	C593					1515
79	C594					1520
80						
				BTEX		
				TPH		
				CHLORIDE		

PLEASE NOTE: Liability and Damages, Cardman's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 04/25 Time: 1230		Received By: Speediequely	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Date:	Received By:		All Results are emailed. Please provide Email address: Thilliar@ensolum.com BBillill@ensolum.com TMorrissey@ensolum.com kthomason@ensolum.com		
Time:	REMARKS:		Cost Center: 2258891001 Incident ID: nAP2434530896		
Delivered By: (Circle One)	Observed Temp.: °C -0.7 Corrected Temp.: °C -0.4	Sample Condition Cool <input checked="" type="checkbox"/> Impact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) SK	Turnaround Time: Standard #140 min	Bacteria (only) <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Impact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler - UPS - Bus - Other:				Thermometer ID #113 Correction Factor 0.5°C	Observed Temp.: °C Corrected Temp.: °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: Ben Belli		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.			
City: Carlsbad		Attn: Colton Brown			
Phone #: 989-854-0852		Address: 3104 E. Green St.			
Fax #: 03C1558583		City: Carlsbad			
Project #: 03C1558583		State: NM Zip: 88220			
Project Name: Poker Lake Unit 30-19 BS 154H		Phone #:			
Project Location: 32.107150, -103.817460		Fax #:			
Sampler Name: Jesse Dorman					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	SAMPLING				
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			BTEx	TPH	CHLORIDE		
81	CS 35	.5'	C	1			X					X	X	X		
82	CS 96									2/20/25	1528					
83	CS 97									2/21/25	915					
84	CS 98										917					
85	CS 99										922					
86	CS 100										923					
87	CS 101										924					
88	CS 102										915					
89	CS 103										909					
90	CS 104										925					

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Relinquished By:	Date: 2/21/25	Received By: Spectreigney	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: Thillard@ensolum.com
Relinquished By:	Date: 1/30	Received By:	All Results are emailed. Please provide Email address: Bbelli@ensolum.com	Thillard@ensolum.com
Delivered By: (Circle One)	Observed Temp.: -0.7	Sample Condition	CHECKED BY: (Initials)	Turnaround Time: 10:30
Sampler - UPS - Bus - Other:	Corrected Temp.: -0.4	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Standard <input type="checkbox"/> Rush <input type="checkbox"/>
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Bacteria (only) <input type="checkbox"/>
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>
				Sample Condition
				Observed Temp.: °C
				Corrected Temp.: °C



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

---

March 13, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 02/24/25 12:30.

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

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS 105 .5'	H251069-01	Soil	21-Feb-25 09:26	24-Feb-25 12:30
CS 106 .5'	H251069-02	Soil	21-Feb-25 09:30	24-Feb-25 12:30
CS 107 .5'	H251069-03	Soil	21-Feb-25 09:31	24-Feb-25 12:30
CS 108 .5'	H251069-04	Soil	21-Feb-25 09:32	24-Feb-25 12:30
CS 109 .5'	H251069-05	Soil	21-Feb-25 09:33	24-Feb-25 12:30
CS 110 .5'	H251069-06	Soil	21-Feb-25 09:34	24-Feb-25 12:30
CS 111 .5'	H251069-07	Soil	21-Feb-25 09:37	24-Feb-25 12:30
CS 112 .5'	H251069-08	Soil	21-Feb-25 09:38	24-Feb-25 12:30
CS 113 .5'	H251069-09	Soil	21-Feb-25 09:39	24-Feb-25 12:30
CS 114 .5'	H251069-10	Soil	21-Feb-25 09:40	24-Feb-25 12:30
CS 115 .5'	H251069-11	Soil	21-Feb-25 09:41	24-Feb-25 12:30
CS 116 .5'	H251069-12	Soil	21-Feb-25 09:45	24-Feb-25 12:30
CS 117 .5'	H251069-13	Soil	21-Feb-25 09:46	24-Feb-25 12:30
CS 118 .5'	H251069-14	Soil	21-Feb-25 09:48	24-Feb-25 12:30
CS 119 .5'	H251069-15	Soil	21-Feb-25 09:50	24-Feb-25 12:30
CS 120 .5'	H251069-16	Soil	21-Feb-25 09:00	24-Feb-25 12:30
CS 121 .5'	H251069-17	Soil	21-Feb-25 09:04	24-Feb-25 12:30
CS 122 .5'	H251069-18	Soil	21-Feb-25 09:07	24-Feb-25 12:30
CS 123 .5'	H251069-19	Soil	21-Feb-25 09:51	24-Feb-25 12:30
CS 124 .5'	H251069-20	Soil	21-Feb-25 09:54	24-Feb-25 12:30
CS 125 .5'	H251069-21	Soil	21-Feb-25 09:55	24-Feb-25 12:30
CS 126 .5'	H251069-22	Soil	21-Feb-25 09:56	24-Feb-25 12:30
CS 127 .5'	H251069-23	Soil	21-Feb-25 09:57	24-Feb-25 12:30
CS 128 .5'	H251069-24	Soil	21-Feb-25 09:58	24-Feb-25 12:30
CS 129 .5'	H251069-25	Soil	21-Feb-25 10:03	24-Feb-25 12:30
CS 130 .5'	H251069-26	Soil	21-Feb-25 10:04	24-Feb-25 12:30
CS 131 .5'	H251069-27	Soil	21-Feb-25 10:05	24-Feb-25 12:30

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

CS 132 .5'	H251069-28	Soil	21-Feb-25 10:06	24-Feb-25 12:30
CS 133 .5'	H251069-29	Soil	21-Feb-25 10:07	24-Feb-25 12:30
CS 134 .5'	H251069-30	Soil	21-Feb-25 10:08	24-Feb-25 12:30
CS 135 .5'	H251069-31	Soil	21-Feb-25 10:09	24-Feb-25 12:30
CS 136 .5'	H251069-32	Soil	21-Feb-25 10:10	24-Feb-25 12:30
CS 01 .5'	H251069-33	Soil	21-Feb-25 09:10	24-Feb-25 12:30
CS 02 .5'	H251069-34	Soil	21-Feb-25 09:11	24-Feb-25 12:30
CS 03 .5'	H251069-35	Soil	21-Feb-25 09:12	24-Feb-25 12:30
SS 02 .5'	H251069-36	Soil	21-Feb-25 10:39	24-Feb-25 12:30
SW 01 0-1'	H251069-37	Soil	21-Feb-25 10:15	24-Feb-25 12:30
SW 02 0-1'	H251069-38	Soil	21-Feb-25 10:17	24-Feb-25 12:30
SW 03 0-1'	H251069-39	Soil	21-Feb-25 10:18	24-Feb-25 12:30
SW 04 0-1'	H251069-40	Soil	21-Feb-25 10:20	24-Feb-25 12:30
SW 05 0-1'	H251069-41	Soil	21-Feb-25 10:21	24-Feb-25 12:30
SW 06 0-1'	H251069-42	Soil	21-Feb-25 10:23	24-Feb-25 12:30
SW 07 0-1'	H251069-43	Soil	21-Feb-25 10:25	24-Feb-25 12:30

03/13/25 - Client changed the sample depths on -37 thru -43 (see COC). This is the revised report and will replace the one sent on 02/25/25.

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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 105 .5'**  
**H251069-01 (Soil)**

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

**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>832</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134 5022431 JH 24-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 74.7 % 48.2-134 5022440 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148 5022440 MS 25-Feb-25 8015B

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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 106 .5'**  
**H251069-02 (Soil)**

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

<b>Chloride</b>	<b>7330</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.5 %		71.5-134	5022431	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
DRO >C10-C28*	<b>170</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<b>28.4</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			80.9 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			82.6 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 107 .5'**  
**H251069-03 (Soil)**

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

<b>Chloride</b>	<b>976</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.1 %		71.5-134	5022431	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>110</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>27.8</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.4 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.3 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 108 .5'**  
**H251069-04 (Soil)**

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

<b>Chloride</b>	<b>2430</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %		71.5-134	5022431	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>199</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>55.5</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.8 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.9 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 109 .5'**  
**H251069-05 (Soil)**

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

<b>Chloride</b>	<b>1550</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.2 %		71.5-134	5022431	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
DRO >C10-C28*	<b>341</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<b>62.2</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			77.1 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			77.5 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 110 .5'**  
**H251069-06 (Soil)**

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

<b>Chloride</b>	<b>2840</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.0 %		71.5-134	5022431	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>275</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>41.3</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			79.1 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.1 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 111 .5'**  
**H251069-07 (Soil)**

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

<b>Chloride</b>	<b>7360</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Toluene*	<b>0.069</b>		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Ethylbenzene*	<b>0.705</b>		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>1.99</b>		0.150	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total BTEX	<b>2.76</b>		0.300	mg/kg	50	5022431	JH	24-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134 5022431 JH 24-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>206</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2950</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>394</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 136 % 48.2-134 5022440 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 134 % 49.1-148 5022440 MS 25-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 112 .5'**  
**H251069-08 (Soil)**

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

<b>Chloride</b>	<b>1040</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.6 %		71.5-134	5022431	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
DRO >C10-C28*	<b>137</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<b>38.6</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			80.4 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			79.5 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 113 .5'**  
**H251069-09 (Soil)**

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

<b>Chloride</b>	<b>2160</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.0 %		71.5-134	5022431	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>276</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>62.9</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.2 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.4 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 114 .5'**  
**H251069-10 (Soil)**

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

<b>Chloride</b>	<b>1420</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	25-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.5 %		71.5-134	5022431	JH	25-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>132</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>38.7</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.4 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.9 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 115 .5'**  
**H251069-11 (Soil)**

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

<b>Chloride</b>	<b>3760</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	25-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.8 %		71.5-134	5022431	JH	25-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>756</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>131</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.6 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			79.6 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 116 .5'**  
**H251069-12 (Soil)**

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

<b>Chloride</b>	<b>2560</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Ethylbenzene*	<b>0.306</b>		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>0.502</b>		0.150	mg/kg	50	5022431	JH	25-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.808</b>		0.300	mg/kg	50	5022431	JH	25-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134 5022431 JH 25-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>60.3</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>798</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>101</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 90.1 % 48.2-134 5022440 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148 5022440 MS 25-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 117 .5'**  
**H251069-13 (Soil)**

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

<b>Chloride</b>	<b>1200</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	25-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.4 %		71.5-134	5022431	JH	25-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
DRO >C10-C28*	41.1		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	14.4		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			81.1 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			80.7 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 118 .5'**  
**H251069-14 (Soil)**

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

<b>Chloride</b>	<b>336</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	25-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.7 %		71.5-134	5022431	JH	25-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
DRO >C10-C28*	<b>35.6</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<b>11.3</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			78.8 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			78.5 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 119 .5'**  
**H251069-15 (Soil)**

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

<b>Chloride</b>	<b>672</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022431	JH	25-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.4 %		71.5-134	5022431	JH	25-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>47.3</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>15.6</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			79.2 %		48.2-134	5022440	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.8 %		49.1-148	5022440	MS	25-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 120 .5'**  
**H251069-16 (Soil)**

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

<b>Chloride</b>	<b>10000</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Ethylbenzene*	<b>0.150</b>		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>0.499</b>		0.150	mg/kg	50	5022431	JH	25-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.649</b>		0.300	mg/kg	50	5022431	JH	25-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 5022431 JH 25-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>152</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4380</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>560</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 185 % 48.2-134 5022440 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 111 % 49.1-148 5022440 MS 25-Feb-25 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 121 .5'**  
**H251069-17 (Soil)**

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

<b>Chloride</b>	<b>3680</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Toluene*	<b>0.069</b>		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Ethylbenzene*	<b>0.051</b>		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>2.32</b>		0.150	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Total BTEX	<b>2.45</b>		0.300	mg/kg	50	5022431	JH	25-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 140 % 71.5-134 5022431 JH 25-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>35.8</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2060</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>320</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 87.9 % 48.2-134 5022440 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 121 % 49.1-148 5022440 MS 25-Feb-25 8015B

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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 122 .5'**  
**H251069-18 (Soil)**

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

<b>Chloride</b>	<b>4800</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	
Ethylbenzene*	<b>0.164</b>		0.050	mg/kg	50	5022431	JH	25-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>0.822</b>		0.150	mg/kg	50	5022431	JH	25-Feb-25	8021B	
<b>Total BTEX</b>	<b>0.986</b>		0.300	mg/kg	50	5022431	JH	25-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 5022431 JH 25-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>36.0</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2670</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>393</b>		10.0	mg/kg	1	5022440	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 94.1 % 48.2-134 5022440 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 131 % 49.1-148 5022440 MS 25-Feb-25 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 123 .5'**  
**H251069-19 (Soil)**

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

<b>Chloride</b>	<b>1260</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<b>0.062</b>		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>1.70</b>		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
<b>Total BTEX</b>	<b>1.76</b>		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 158 % 71.5-134 5022432 JH 24-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>163</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2250</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	QM-07, QR-03
<b>EXT DRO &gt;C28-C36</b>	<b>228</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 109 % 48.2-134 5022441 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 117 % 49.1-148 5022441 MS 25-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 124 .5'**  
**H251069-20 (Soil)**

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

<b>Chloride</b>	<b>352</b>		16.0	mg/kg	4	5022467	HM	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>50.0</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.7 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.7 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 125 .5'**  
**H251069-21 (Soil)**

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

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.7 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.8 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 126 .5'**  
**H251069-22 (Soil)**

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

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.8 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.9 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 127 .5'**  
**H251069-23 (Soil)**

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

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>81.7</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.2 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.7 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 128 .5'**  
**H251069-24 (Soil)**

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

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>29.3</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			87.8 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			90.0 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 129 .5'**  
**H251069-25 (Soil)**

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

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>24.5</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			72.9 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			70.8 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 130 .5'**  
**H251069-26 (Soil)**

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

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>10.7</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.2 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.3 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 131 .5'**  
**H251069-27 (Soil)**

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

<b>Chloride</b>	<b>272</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>12.9</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			80.2 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			76.8 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 132 .5'**  
**H251069-28 (Soil)**

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

<b>Chloride</b>	<b>448</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			89.8 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			85.9 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 133 .5'**  
**H251069-29 (Soil)**

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

<b>Chloride</b>	<b>352</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>47.2</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.2 %		48.2-134	5022441	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.6 %		49.1-148	5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 134 .5'**  
**H251069-30 (Soil)**

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

<b>Chloride</b>	<b>1680</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
DRO >C10-C28*	<b>347</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<b>44.5</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			91.1 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			94.1 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 135 .5'**  
**H251069-31 (Soil)**

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

<b>Chloride</b>	<b>336</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>50.2</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.0 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			75.2 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 136 .5'**  
**H251069-32 (Soil)**

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

<b>Chloride</b>	<b>2760</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %		71.5-134	5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
DRO >C10-C28*	<b>815</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<b>120</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			85.1 %		48.2-134	5022441	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			93.2 %		49.1-148	5022441	MS	25-Feb-25	8015B	
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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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 01 .5'**  
**H251069-33 (Soil)**

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

<b>Chloride</b>	<b>2200</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.9 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			75.9 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 02 .5'**  
**H251069-34 (Soil)**

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

<b>Chloride</b>	<b>1200</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>363</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>39.4</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			81.9 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			86.3 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**CS 03 .5'**  
**H251069-35 (Soil)**

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

<b>Chloride</b>	<b>1440</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		110 %		71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>467</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>45.3</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane		82.3 %		48.2-134		5022441	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		90.6 %		49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**SS 02 .5'**  
**H251069-36 (Soil)**

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

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		5022432	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.3 %	48.2-134		5022441	MS	25-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			87.5 %	49.1-148		5022441	MS	25-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**SW 01 0-1'**  
**H251069-37 (Soil)**

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

<b>Chloride</b>	<b>1800</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 5022432 JH 24-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
DRO >C10-C28*	713		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	105		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 89.1 % 48.2-134 5022441 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 102 % 49.1-148 5022441 MS 25-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**SW 02 0-1'**  
**H251069-38 (Soil)**

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

<b>Chloride</b>	<b>4560</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Toluene*	<b>0.065</b>		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Ethylbenzene*	<b>0.100</b>		0.050	mg/kg	50	5022432	JH	24-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>1.99</b>		0.150	mg/kg	50	5022432	JH	24-Feb-25	8021B	
Total BTEX	<b>2.16</b>		0.300	mg/kg	50	5022432	JH	24-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 146 % 71.5-134 5022432 JH 24-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>155</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4090</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>426</b>		10.0	mg/kg	1	5022441	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 106 % 48.2-134 5022441 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 114 % 49.1-148 5022441 MS 25-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**SW 03 0-1'**  
**H251069-39 (Soil)**

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

<b>Chloride</b>	<b>3680</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Ethylbenzene*	<b>0.258</b>		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>0.883</b>		0.150	mg/kg	50	5022433	JH	24-Feb-25	8021B	
<b>Total BTEX</b>	<b>1.14</b>		0.300	mg/kg	50	5022433	JH	24-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134 5022433 JH 24-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>48.3</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2880</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>433</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 114 % 48.2-134 5022442 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 137 % 49.1-148 5022442 MS 25-Feb-25 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**SW 04 0-1'**  
**H251069-40 (Soil)**

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

<b>Chloride</b>	<b>2200</b>		16.0	mg/kg	4	5022501	AC	25-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022433	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		5022433	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	
DRO >C10-C28*	<b>2090</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	
EXT DRO >C28-C36	<b>347</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			101 %	48.2-134		5022442	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			141 %	49.1-148		5022442	MS	25-Feb-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**SW 05 0-1'**  
**H251069-41 (Soil)**

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

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	5022465	CT	24-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5022433	JH	24-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5022433	JH	24-Feb-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>188</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>28.1</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane			92.6 %	48.2-134		5022442	MS	25-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	49.1-148		5022442	MS	25-Feb-25	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**SW 06 0-1'**  
**H251069-42 (Soil)**

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

<b>Chloride</b>	<b>496</b>		16.0	mg/kg	4	5022465	CT	24-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Toluene*	<b>1.66</b>		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Ethylbenzene*	<b>4.75</b>		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	GC-NC1
Total Xylenes*	<b>23.9</b>		0.150	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Total BTEX	<b>30.3</b>		0.300	mg/kg	50	5022433	JH	24-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 169 % 71.5-134 5022433 JH 24-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>751</b>		50.0	mg/kg	5	5022442	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>10700</b>		50.0	mg/kg	5	5022442	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1440</b>		50.0	mg/kg	5	5022442	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 150 % 48.2-134 5022442 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 210 % 49.1-148 5022442 MS 25-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**SW 07 0-1'**  
**H251069-43 (Soil)**

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

<b>Chloride</b>	<b>5520</b>		16.0	mg/kg	4	5022465	CT	24-Feb-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	
Ethylbenzene*	<b>0.496</b>		0.050	mg/kg	50	5022433	JH	24-Feb-25	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>0.976</b>		0.150	mg/kg	50	5022433	JH	24-Feb-25	8021B	
<b>Total BTEX</b>	<b>1.47</b>		0.300	mg/kg	50	5022433	JH	24-Feb-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134 5022433 JH 24-Feb-25 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>58.2</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5660</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>825</b>		10.0	mg/kg	1	5022442	MS	25-Feb-25	8015B	

Surrogate: 1-Chlorooctane 78.6 % 48.2-134 5022442 MS 25-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 121 % 49.1-148 5022442 MS 25-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022465 - 1:4 DI Water****Blank (5022465-BLK1)**

Prepared &amp; Analyzed: 24-Feb-25

Chloride	ND	16.0	mg/kg
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**LCS (5022465-BS1)**

Prepared &amp; Analyzed: 24-Feb-25

Chloride	432	16.0	mg/kg	400	108	80-120
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**LCS Dup (5022465-BSD1)**

Prepared &amp; Analyzed: 24-Feb-25

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20
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**Batch 5022467 - 1:4 DI Water****Blank (5022467-BLK1)**

Prepared &amp; Analyzed: 24-Feb-25

Chloride	ND	16.0	mg/kg
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**LCS (5022467-BS1)**

Prepared &amp; Analyzed: 24-Feb-25

Chloride	432	16.0	mg/kg	400	108	80-120
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**LCS Dup (5022467-BSD1)**

Prepared &amp; Analyzed: 24-Feb-25

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20
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**Batch 5022501 - 1:4 DI Water****Blank (5022501-BLK1)**

Prepared &amp; Analyzed: 25-Feb-25

Chloride	ND	16.0	mg/kg
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**LCS (5022501-BS1)**

Prepared &amp; Analyzed: 25-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:Reported:  
13-Mar-25 09:38**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022501 - 1:4 DI Water****LCS Dup (5022501-BSD1)**

Prepared &amp; Analyzed: 25-Feb-25

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022431 - Volatiles****Blank (5022431-BLK1)**

Prepared &amp; Analyzed: 24-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		94.4	71.5-134			

**LCS (5022431-BS1)**

Prepared &amp; Analyzed: 24-Feb-25

Benzene	1.86	0.050	mg/kg	2.00		93.0	82.8-130			
Toluene	1.94	0.050	mg/kg	2.00		96.8	86-128			
Ethylbenzene	1.85	0.050	mg/kg	2.00		92.7	85.9-128			
m,p-Xylene	3.63	0.100	mg/kg	4.00		90.8	89-129			
o-Xylene	1.81	0.050	mg/kg	2.00		90.4	86.1-125			
Total Xylenes	5.44	0.150	mg/kg	6.00		90.7	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0469		mg/kg	0.0500		93.7	71.5-134			

**LCS Dup (5022431-BS1)**

Prepared &amp; Analyzed: 24-Feb-25

Benzene	1.90	0.050	mg/kg	2.00		94.8	82.8-130	1.96	15.8	
Toluene	1.98	0.050	mg/kg	2.00		98.9	86-128	2.08	15.9	
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.3	85.9-128	1.74	16	
m,p-Xylene	3.71	0.100	mg/kg	4.00		92.7	89-129	2.04	16.2	
o-Xylene	1.84	0.050	mg/kg	2.00		91.9	86.1-125	1.66	16.7	
Total Xylenes	5.55	0.150	mg/kg	6.00		92.5	88.2-128	1.91	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0467		mg/kg	0.0500		93.5	71.5-134			

**Batch 5022432 - Volatiles****Blank (5022432-BLK1)**

Prepared &amp; Analyzed: 24-Feb-25

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

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022432 - Volatiles****Blank (5022432-BLK1)**

Prepared &amp; Analyzed: 24-Feb-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0540		mg/kg	0.0500		108	71.5-134			

**LCS (5022432-BS1)**

Prepared &amp; Analyzed: 24-Feb-25

Benzene	2.13	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.13	0.050	mg/kg	2.00		107	86-128			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.36	0.100	mg/kg	4.00		109	89-129			
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125			
Total Xylenes	6.40	0.150	mg/kg	6.00		107	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	71.5-134			

**LCS Dup (5022432-BS1)**

Prepared &amp; Analyzed: 24-Feb-25

Benzene	2.19	0.050	mg/kg	2.00		110	82.8-130	2.97	15.8	
Toluene	2.22	0.050	mg/kg	2.00		111	86-128	4.12	15.9	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	85.9-128	4.47	16	
m,p-Xylene	4.55	0.100	mg/kg	4.00		114	89-129	4.24	16.2	
o-Xylene	2.13	0.050	mg/kg	2.00		106	86.1-125	4.26	16.7	
Total Xylenes	6.68	0.150	mg/kg	6.00		111	88.2-128	4.25	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	71.5-134			

**Batch 5022433 - Volatiles****Blank (5022433-BLK1)**

Prepared &amp; Analyzed: 24-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0540		mg/kg	0.0500		108	71.5-134			

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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022433 - Volatiles****LCS (5022433-BS1)**

Prepared &amp; Analyzed: 24-Feb-25

Benzene	2.17	0.050	mg/kg	2.00		109	82.8-130			
Toluene	2.32	0.050	mg/kg	2.00		116	86-128			
Ethylbenzene	2.36	0.050	mg/kg	2.00		118	85.9-128			
m,p-Xylene	4.84	0.100	mg/kg	4.00		121	89-129			
o-Xylene	2.31	0.050	mg/kg	2.00		116	86.1-125			
Total Xylenes	7.15	0.150	mg/kg	6.00		119	88.2-128			

Surrogate: 4-Bromofluorobenzene (PID)

0.0509

mg/kg

0.0500

102

71.5-134

**LCS Dup (5022433-BSD1)**

Prepared &amp; Analyzed: 24-Feb-25

Benzene	2.21	0.050	mg/kg	2.00		111	82.8-130	1.91	15.8	
Toluene	2.38	0.050	mg/kg	2.00		119	86-128	2.49	15.9	
Ethylbenzene	2.42	0.050	mg/kg	2.00		121	85.9-128	2.37	16	
m,p-Xylene	4.95	0.100	mg/kg	4.00		124	89-129	2.32	16.2	
o-Xylene	2.36	0.050	mg/kg	2.00		118	86.1-125	2.29	16.7	
Total Xylenes	7.32	0.150	mg/kg	6.00		122	88.2-128	2.31	16.3	

Surrogate: 4-Bromofluorobenzene (PID)

0.0510

mg/kg

0.0500

102

71.5-134

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022440 - General Prep - Organics****Blank (5022440-BLK1)**

Prepared: 24-Feb-25 Analyzed: 25-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	48.2-134		
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	49.1-148		

**LCS (5022440-BS1)**

Prepared: 24-Feb-25 Analyzed: 25-Feb-25

GRO C6-C10	203	10.0	mg/kg	200		101	81.5-123		
DRO >C10-C28	195	10.0	mg/kg	200		97.4	77.7-122		
Total TPH C6-C28	397	10.0	mg/kg	400		99.3	80.9-121		
Surrogate: 1-Chlorooctane	54.4		mg/kg	50.0		109	48.2-134		
Surrogate: 1-Chlorooctadecane	56.1		mg/kg	50.0		112	49.1-148		

**LCS Dup (5022440-BS1)**

Prepared: 24-Feb-25 Analyzed: 25-Feb-25

GRO C6-C10	205	10.0	mg/kg	200		102	81.5-123	1.16	13
DRO >C10-C28	194	10.0	mg/kg	200		97.0	77.7-122	0.368	15.6
Total TPH C6-C28	399	10.0	mg/kg	400		99.7	80.9-121	0.414	18.5
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0		106	48.2-134		
Surrogate: 1-Chlorooctadecane	54.6		mg/kg	50.0		109	49.1-148		

**Batch 5022441 - General Prep - Organics****Blank (5022441-BLK1)**

Prepared: 24-Feb-25 Analyzed: 25-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	54.4		mg/kg	50.0		109	48.2-134		
Surrogate: 1-Chlorooctadecane	54.7		mg/kg	50.0		109	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

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

**Batch 5022441 - General Prep - Organics****LCS (5022441-BS1)**

Prepared: 24-Feb-25 Analyzed: 25-Feb-25

GRO C6-C10	202	10.0	mg/kg	200	101	81.5-123			
DRO >C10-C28	198	10.0	mg/kg	200	98.9	77.7-122			
Total TPH C6-C28	400	10.0	mg/kg	400	99.9	80.9-121			
Surrogate: 1-Chlorooctane	59.1		mg/kg	50.0	118	48.2-134			
Surrogate: 1-Chlorooctadecane	60.6		mg/kg	50.0	121	49.1-148			

**LCS Dup (5022441-BS1)**

Prepared: 24-Feb-25 Analyzed: 25-Feb-25

GRO C6-C10	207	10.0	mg/kg	200	104	81.5-123	2.49	13	
DRO >C10-C28	199	10.0	mg/kg	200	99.3	77.7-122	0.465	15.6	
Total TPH C6-C28	406	10.0	mg/kg	400	101	80.9-121	1.49	18.5	
Surrogate: 1-Chlorooctane	58.2		mg/kg	50.0	116	48.2-134			
Surrogate: 1-Chlorooctadecane	58.8		mg/kg	50.0	118	49.1-148			

**Batch 5022442 - General Prep - Organics****Blank (5022442-BLK1)**

Prepared: 24-Feb-25 Analyzed: 25-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	60.5		mg/kg	50.0	121	48.2-134			
Surrogate: 1-Chlorooctadecane	63.4		mg/kg	50.0	127	49.1-148			

**LCS (5022442-BS1)**

Prepared: 24-Feb-25 Analyzed: 25-Feb-25

GRO C6-C10	207	10.0	mg/kg	200	103	81.5-123			
DRO >C10-C28	203	10.0	mg/kg	200	101	77.7-122			
Total TPH C6-C28	410	10.0	mg/kg	400	102	80.9-121			
Surrogate: 1-Chlorooctane	66.0		mg/kg	50.0	132	48.2-134			
Surrogate: 1-Chlorooctadecane	70.3		mg/kg	50.0	141	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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Manager: BEN BELILL  
Fax To:

Reported:  
13-Mar-25 09:38

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5022442 - General Prep - Organics****LCS Dup (5022442-BSD1)**

Prepared: 24-Feb-25 Analyzed: 25-Feb-25

GRO C6-C10	205	10.0	mg/kg	200		103	81.5-123	0.708	13	
DRO >C10-C28	202	10.0	mg/kg	200		101	77.7-122	0.592	15.6	
Total TPH C6-C28	407	10.0	mg/kg	400		102	80.9-121	0.651	18.5	
Surrogate: 1-Chlorooctane	64.0		mg/kg	50.0		128	48.2-134			
Surrogate: 1-Chlorooctadecane	68.9		mg/kg	50.0		138	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".

---

Celey D. Keene, Lab Director/Quality Manager

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

FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS															
					MATRIX														
					GROUNDWATER														
					WASTEWATER														
					SOIL														
					OIL														
					SLUDGE														
					OTHER :														
					PRESERV														
					ACID/BASE:														
					ICE / COOL														
					SAMPLING														
					DATE														
					TIME														
H2S1069	CS105	.5'	C	1	X	2/21/05	926	X	BTEX										
	CS106						930	X	TPH										
	CS107						931	X	CHLORIDE										
	CS108						932												
	CS109						933												
	CS110						934												
	CS111						937												
	CS112						938												
	CS113						939												
	CS114						940												

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Reimbursement Request	Date	Reason for Request	Amount Requested	Amount Paid	Comments
Analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					

Relinquished By:	Type: <u>82435</u> Time: <u>1:30</u>		Received By:	<u>Speckinney</u>	
Date:					
Time:					
Delivered By: (Circle One)	Observed Temp. <u>8.7</u> Corrected Temp. <u>-0.4</u>	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>SP</u>	Turnaround Time: <u>140 to 150</u>	Standard Rush <input checked="" type="checkbox"/> <u>24 hr</u>
Sampler - UPS - Bus - Other:				Thermometer ID # <u>173</u>	Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No
				Correction Factor: <u>0.5C</u>	Corrected Temp. <u>8.2</u>
REMARKS:			Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Add'l Phone #: _____ All Results are emailed. Please provide Email address: <u>Thillard@ensolum.com</u> <u>BBeill@ensolum.com</u> <u>TMorrissey@ensolum.com</u> <u>kthomason@ensolum.com</u>		
Cost Center: 2258891001			Incident ID: nAP2434530896		





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		<b>BILL TO</b>									
Project Manager: Ben Beill		ANALYSIS REQUEST									
Address: 3122 National Parks Hwy		P.O. #:									
City: Carlsbad		Company: XTO Energy Inc.									
State: NM Zip: 88220		Attn: Colton Brown									
Phone #: 989-854-0852 Fax #:		Address: 3104 E. Green St.									
Project #: 03C1558583 Project Owner: XTO		City: Carlsbad									
Project Name: Poker Lake Unit 30-19 BS 154H		State: NM Zip: 88220									
Project Location: 32.107150, -103.817460		Phone #:									
Sampler Name: Jesse Dorman		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
HCS1069						
11	CS115	.5'	C	X	X	8/24/05 9411
12	CS116		1			945
13	CS117					946
14	CS118					948
15	CS119					950
16	CS120					900
17	CS121					904
18	CS122					907
19	CS123					951
20	CS124					954
			BTEX	X		
			TPH	X		
			CHLORIDE	X		

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Date:	Received By:	Reimbursement For:
<p>analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client. Its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>		

Relinquished By: <u>EBR</u>		Date: <u>1/30</u>		Received By: <u>Redrigney</u>	
Time:		Time:		Time:	
Delivered By: (Circle One)		Observed Temp. °C <u>-0.7</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>-0.4</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
		CHECKED BY: <u>SR</u>			
Turnaround Time: <u>140 to 10:30</u>		Standard <input checked="" type="checkbox"/> <u>24h</u>		Bacteria (only) <input checked="" type="checkbox"/>	
Thermometer ID #44		Kush <input checked="" type="checkbox"/>		Cool Intact <input checked="" type="checkbox"/>	
Correction Factor: <u>-0.3°C</u>		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Observed Temp. °C	
		Corrected Temp. °C			
REMARKS:		Cost Center: 2258891001		Incident ID: nAPP2434530896	
All Results are emailed. Please provide Email address:		BBeill@ensolum.com		TThillard@ensolum.com	
MMorrissey@ensolum.com		Kkthomason@ensolum.com			
Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:			



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>									
Project Manager: Ben Bellill										P.O. #:																			
Address: 3122 National Parks Hwy										Company: XTO Energy Inc.																			
City: Carlsbad										Attn: Colton Brown																			
Phone #: 989-854-0852										Address: 3104 E. Green St.																			
Fax #: 03C1558583										City: Carlsbad																			
Project #: 03C1558583										State: NM Zip: 88220																			
Project Name: Poker Lake Unit 30-19 BS 154H										Phone #:																			
Project Location: 32.107150, -103.877460										Fax #:																			
Sampler Name: Jesse Dorman																													
FOR LAB USE ONLY																													
Lab I.D.										Sample I.D.										Sample Depth (feet)									
H351069										C5125										.5'									
21										C5126										C									
22										C5127										1									
23										C5128																			
24										C5129																			
25										C5130																			
26										C5131																			
27										C5132																			
28										C5133																			
29										C5134																			
30																													
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Relinquished By:										Date: 8/1/95										Received By: Speediequely									
Relinquished By:										Time: 1:30										Received By:									
Date:										Time:																			
Delivered By: (Circle One)										Observed Temp. °C										Sample Condition									
Sampler - UPS - Bus - Other:										Corrected Temp. °C										Cool Intact Yes No									
										-0.7										Yes No									
										0.4										No No									
																				CHECKED BY: (Initials)									
																				8/1									
																				Turnaround Time: 140 to 3:44									
																				Thermometer ID: 444									
																				Corrosion Factor: 0.5									
																				Standard Crush									
																				2415									
																				Bacteria (only) Sample Condition									
																				Cool Intact Yes No									
																				Observed Temp. °C									
																				Corrected Temp. °C									





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: Ben Beill		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.			
City: Carlsbad		Attn: Colton Brown			
Phone #: 989-854-0852		Address: 3104 E. Green St.			
Fax #: 03C1558583		City: Carlsbad			
Project #: 03C1558583		State: NM Zip: 88220			
Project Name: Poker Lake Unit 30-19 BS 154H		Phone #:			
Project Location: 32.107150, -103.817460		Fax #:			
Sampler Name: Jesse Dorman					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				DATE	TIME	ANALYSIS REQUEST			
					GROUNDWATER	WASTEWATER	SOIL	OIL			BTEX	TPH	CHLORIDE	
4857049	31	15135	5'	1					2/21/25	1004				
	33	15136		1					1010					
	33	1501							910					
	34	1502							911					
	35	1503							912					
	36	1502							1039					
	37	1501	9-11'						1015					
	38	1502							1017					
	39	1503							1018					
	40	1504							1020					

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Relinquished By: <i>[Signature]</i>	Date: 2/24/25	Received By: <i>[Signature]</i>	Date: 2/24/25
Relinquished By: <i>[Signature]</i>	Date: 1/30	Received By: <i>[Signature]</i>	Date: 1/30
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: -0.7 Corrected Temp. °C: -0.4	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <i>[Signature]</i>
Turnaround Time: 140 + 0.3	Standard Push <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C
REMARKS: *Cust. Reg. Depth changes.	Cost Center: 2258891001	Incident ID: NAPP243430896	40.3/12/25



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>											
Project Manager: Ben Beill		P.O. #:																					
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.																					
City: Carlsbad		Attn: Colton Brown																					
Phone #: 989-854-0852		Address: 3104 E. Green St.																					
Fax #:		City: Carlsbad																					
Project #: 03C1558583		State: NM Zip: 88220																					
Project Name: Poker Lake Unit 30-19 BS 154H		Phone #:																					
Project Location: 32.107150, -103.817460		Fax #:																					
Sampler Name: Jesse Dorman																							

[illegible]

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 4-24-05 Time: 1230	Received By:	Spec Relinquished
Date:		Received By:	
Time:			
Delivered By: (Circle One)	Observed Temp.: °C -0.7 Corrected Temp.: °C -0.4	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) SA
Sampler - UPS - Bus - Other:			
Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:		
All Results are emailed. Please provide Email address:			
BBell@ensulium.com		Thillard@ensulium.com	
TMorrissey@ensulium.com		kthomason@ensulium.com	
REMARKS: * Cust. Reg. Depth Changes.			
Incident ID: nAP-243450896			
Cost Center: 2258891001			
Turnaround Time: 10.3	Standard	<input checked="" type="checkbox"/> Bacteria (only)	Sample Condition
Thermometer ID #443	Kush	<input checked="" type="checkbox"/> Cool	Observed Temp.: °C
Correction Factor: -0.5°C	24hr	Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp.: °C





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

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February 04, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 30-19 BS 154H

Enclosed are the results of analyses for samples received by the laboratory on 02/03/25 12:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in 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:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/04/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 30-19 BS 154H	Sampling Condition:	Cool & Intact
Project Number:	03C1558583	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.107150,-103.817460		

**Sample ID: SS 01 0.5 (H250605-01)**

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	02/04/2025	ND	2.08	104	2.00	5.33		
Toluene*	<0.050	0.050	02/04/2025	ND	2.17	108	2.00	7.27		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.21	110	2.00	5.89		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.54	109	6.00	5.35		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	02/04/2025	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	197	98.4	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	197	98.5	200	0.0589	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 02 0.5 (H250605-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.08	104	2.00	5.33	
Toluene*	<0.050	0.050	02/04/2025	ND	2.17	108	2.00	7.27	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.21	110	2.00	5.89	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.54	109	6.00	5.35	
Total BTEX	<0.300	0.300	02/04/2025	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	<16.0	16.0	02/04/2025	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	197	98.4	200	0.891	
DRO >C10-C28*	494	10.0	02/04/2025	ND	197	98.5	200	0.0589	
EXT DRO >C28-C36	139	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 03 0.5 (H250605-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.08	104	2.00	5.33		
Toluene*	<0.050	0.050	02/04/2025	ND	2.17	108	2.00	7.27		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.21	110	2.00	5.89		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.54	109	6.00	5.35		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	02/04/2025	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	197	98.4	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	197	98.5	200	0.0589	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 04 0.5 (H250605-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2025	ND	2.08	104	2.00	5.33		
Toluene*	<0.050	0.050	02/04/2025	ND	2.17	108	2.00	7.27		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.21	110	2.00	5.89		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.54	109	6.00	5.35		
Total BTX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	02/04/2025	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	197	98.4	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	197	98.5	200	0.0589	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 05 0.5 (H250605-05)**

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	02/04/2025	ND	2.08	104	2.00	5.33		
Toluene*	<0.050	0.050	02/04/2025	ND	2.17	108	2.00	7.27		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.21	110	2.00	5.89		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.54	109	6.00	5.35		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	02/04/2025	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	197	98.4	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	197	98.5	200	0.0589	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 06 0.5 (H250605-06)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	464	116	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 07 0.5 (H250605-07)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 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	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 08 0.5 (H250605-08)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 09 0.5 (H250605-09)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 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	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	13.6	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 109 % 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: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 10 0.5 (H250605-10)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 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	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 109 % 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: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 11 0.5 (H250605-11)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 12 0.5 (H250605-12)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 13 0.5 (H250605-13)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEx	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 14 0.5 (H250605-14)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 15 0.5 (H250605-15)**

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	02/04/2025	ND	1.98	99.2	2.00	2.78		
Toluene*	<0.050	0.050	02/04/2025	ND	2.05	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	1.98	98.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/04/2025	ND	5.81	96.8	6.00	2.51		
Total BTEX	<0.300	0.300	02/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	131	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	32.3	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 16 0.5 (H250605-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTX	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 17 0.5 (H250605-17)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTX	<0.300	0.300	02/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 18 0.5 (H250605-18)**

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	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTEX	<0.300	0.300	02/03/2025	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	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 19 0.5 (H250605-19)**

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	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTEx	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 20 0.5 (H250605-20)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTX	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 117 % 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  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 21 0.5 (H250605-21)**

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	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTEx	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 22 0.5 (H250605-22)**

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	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTEx	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 115 % 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  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 23 0.5 (H250605-23)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTX	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 24 0.5 (H250605-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTEx	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/03/2025  
Reported: 02/04/2025  
Project Name: POKER LAKE UNIT 30-19 BS 154H  
Project Number: 03C1558583  
Project Location: XTO 32.107150,-103.817460

Sampling Date: 01/31/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 25 0.5 (H250605-25)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2025	ND	1.84	91.8	2.00	8.54		
Toluene*	<0.050	0.050	02/03/2025	ND	1.97	98.3	2.00	8.95		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	1.90	94.9	2.00	9.74		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	5.91	98.5	6.00	11.0		
Total BTEx	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	225	113	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	214	107	200	0.00655	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1003

<b>Company Name:</b> Ensolum, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
<b>Project Manager:</b> Tracy Hillard		<b>P.O. #:</b>											
<b>Address:</b> 3122 National Parks Hwy		<b>Company:</b> XTO Energy Inc.											
<b>City:</b> Carlsbad		<b>Attn:</b> Colton Brown											
<b>Phone #:</b> 337 257-8307		<b>Address:</b> 3104 E. Green St.											
<b>Fax #:</b>		<b>City:</b> Carlsbad											
<b>Project #:</b> 03C1558583		<b>State:</b> NM											
<b>Project Name:</b> Poker Lake Unit 30-19 BS 154H		<b>Zip:</b> 88220											
<b>Project Location:</b>		<b>Phone #:</b>											
<b>Sampler Name:</b> Connor Whitman		<b>Fax #:</b>											
<small>FOR LAB USE ONLY</small>													
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>Sample Depth (feet)</b>	<b>(G)RAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>MATRIX</b>			<b>PRESERV.</b>	<b>SAMPLING</b>	<b>BTEX</b>	<b>TPH</b>	<b>CHLORIDE</b>	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :
<i>HSC0405</i>	5501	0.5	G	1									
	5502												
	5503												
	5504												
	5505												
	5506												
	5507												
	5508												
	5509												
	5510												
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<b>Relinquished By:</b> <i>CH</i>		<b>Date:</b> 9-3-25		<b>Received By:</b> <i>Connor Whitman</i>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b>					
<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>		<b>All Results are emailed. Please provide Email address:</b>							
<b>Time:</b>		<b>Time:</b>		<b>Time:</b>		<b>Thermometer ID:</b> #140							
<b>Observed Temp.: °C</b> 1.3		<b>Corrected Temp.: °C</b> 1.4		<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>CHECKED BY:</b> <i>CH</i>							
<b>Delivered By: (Circle One)</b>		<b>Observed Temp.: °C</b>		<b>Corrected Temp.: °C</b>		<b>Sample Condition</b>							
<b>Sampler - UPS - Bus - Other:</b>		<b>Observed Temp.: °C</b>		<b>Corrected Temp.: °C</b>		<b>Sample Condition</b>							
<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		<b>Bacteria (only)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Observed Temp.: °C</b>							
<b>Correction Factor:</b> <i>0.0038</i>		<b>Incident ID:</b> nAPP2434530896		<b>Remarks:</b> Cost Center: 2258891001									

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





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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Ensolum, LLC				<b>BILL TO</b>				ANALYSIS REQUEST													
Project Manager: Tracy Hillard				P.O. #:																	
Address: 3122 National Parks Hwy				Company: XTO Energy Inc.																	
City: Carlsbad				Attn: Colton Brown																	
Phone #: 337 257-8307				Address: 3104 E. Green St.																	
Fax #:				City: Carlsbad																	
Project #: 03C1558583				State: NM Zip: 88220																	
Project Name: Poker Lake Unit 30-19 BS 154H				Phone #:																	
Project Location:				Fax #:																	
Sampler Name: Connor Whitman																					
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	BTEX	TPH	CHLORIDE											
H250605	5811	0.5	G	1	GROUNDWATER																
12	5812				WASTEWATER																
13	5813				SOIL																
14	5814				OIL																
15	5815				SLUDGE																
16	5816				OTHER :																
17	5817				ACID/BASE:																
18	5818				ICE / COOL																
19	5819				OTHER :																
20	5820																				
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Relinquished By: <i>CH</i>		Date: 9-3-35		Received By: <i>Matthew C. Hillard</i>		Date: 9-3-35		Time: 12:00		Received By: <i>Matthew C. Hillard</i>		Date: 9-3-35		Time: 12:00		Remarks: Cost Center: 2258891001 Incident ID: nA-PP2434530896		Turnaround Time: Standard <i>12h</i>		Thermometer ID: <i>4113</i>	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time: Standard <i>12h</i>		Thermometer ID: <i>4113</i>		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C		Corrected Temp. °C		Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID: <i>4113</i>		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C		Corrected Temp. °C		Bacteria (only) Sample Condition		Cool Intact	

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



**From:** [Tacoma Morrissey](#)  
**To:** [Wells, Shelly, EMNRD](#)  
**Subject:** [EXTERNAL] Re: nAPP2434530896 POKER LAKE UNIT 30-19 BS 154H  
**Date:** Monday, December 8, 2025 3:18:47 PM  
**Attachments:** [image.png](#)  
[Outlook-4i44oybg.png](#)  
[Outlook-lba3siqd.png](#)  
[Outlook-hhc5cy23.png](#)  
[Outlook-ikyuvwgt](#)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Shelly,

Thank you for reaching out and for your patience while I draft this response.

SS02: The SS02 collected on Feb 21, 2025 was collected approximately 3-4 feet from the original location at the base of the pad berm. The original SS02 location was collected in the scraped area (as you can see in the photo below), but identified waste-containing soil. Due to the size of the release, this distance is hard to depict on the figures, and we didn't want to introduce confusion by adding insets or creating too many multiples of figures. The location of SS02 is still on pad and laterally defines the waste containing soil in that area.



For PH17, there was a typo when making the table, and PH17 should not have been crossed

out. That area is located in the proposed excavation area. Please forgive the oversight; we'll make sure it does not happen again.

Thank you,



**Tacoma Morrissey,  
P.G.**

(licensed in TX)  
Associate Principal  
337-257-8307

**Ensolum, LLC**

**in f X**

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Friday, December 5, 2025 4:52 PM  
**To:** Tacoma Morrissey <tmorrissey@ensolum.com>  
**Subject:** nAPP2434530896 POKER LAKE UNIT 30-19 BS 154H

**[ \*\*EXTERNAL EMAIL \*\* ]**

Hi Tacoma,

I am reviewing the remediation plan submitted for nAPP2434530896 POKER LAKE UNIT 30-19 BS 154H and have two questions for you. Referring to pg. 2, "Based on analytical results for soil sample SS02 collected on January 31, 2025, indicating waste-containing soil existed in that location, a second sample was collected just outside the original sample location on February 21, 2025, to delineate the release extent to the reclamation requirement."

Specifically state how far you moved SS02 when it failed? Was it 5 feet? When a sample fails, OCD needs to know it's true sample location per 19.15.29.12.C NMAC. In addition, PH 17 was collected on 9/24/25 at .5' with a GRO + DRO concentration of 14,040 mg/kg. In the Table provided it is crossed out but nowhere in remediation summary does it say you have excavated since then. Was this a typo?

I look forward to hearing back from you when you get the chance,

Shelly

**Shelly Wells** \* Senior Environmental Scientist  
Environmental Bureau

EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

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

QUESTIONS

Action 529650

QUESTIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529650
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434530896
Incident Name	NAPP2434530896 POKER LAKE UNIT 30-19 BS 154H @ 30-015-53439
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Well	[30-015-53439] POKER LAKE UNIT 30 19 BS #154H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POKER LAKE UNIT 30-19 BS 154H
Date Release Discovered	12/09/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
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: Human Error   Tank (Any)   Crude Oil   Released: 113 BBL   Recovered: 77 BBL   Lost: 36 BBL.
Produced Water Released (bbls) Details	Cause: Human Error   Tank (Any)   Produced Water   Released: 429 BBL   Recovered: 293 BBL   Lost: 136 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Human Error   Tank (Any)   Natural Gas Vented   Released: 153 MCF   Recovered: 0 MCF   Lost: 153 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.



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QUESTIONS, Page 2

Action 529650

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 529650
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 11/25/2025
--	---

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QUESTIONS, Page 3

Action 529650

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529650
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	20200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	21800
GRO+DRO (EPA SW-846 Method 8015M)	20040
BTEX (EPA SW-846 Method 8021B or 8260B)	212
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	12/16/2024
On what date will (or did) the final sampling or liner inspection occur	09/20/2025
On what date will (or was) the remediation complete(d)	09/20/2025
What is the estimated surface area (in square feet) that will be reclaimed	81750
What is the estimated volume (in cubic yards) that will be reclaimed	12111
What is the estimated surface area (in square feet) that will be remediated	81750
What is the estimated volume (in cubic yards) that will be remediated	3100
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 529650

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529650
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 11/25/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 529650

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529650
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 529650

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 529650
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	507216
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/23/2025
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 529650

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 529650
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions:	12/8/2025
scwells	1) Entire length of excavation that SW06 and SW07 were collected along requires further excavation as GRO+DRO was 11,500 and 5,720 mg/kg respectively and these samples were collected on edge of pad.	12/8/2025
scwells	2) In addition, the entire length of excavation that SW02 was collected along requires further excavation as TPH was 4,680 mg/kg here.	12/8/2025
scwells	Submit remediation closure report to the OCD by 3/9/26.	12/8/2025