



August 7, 2024

**New Mexico Energy Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Deferral Request**  
**Poker Lake Unit 18 TWR CVB**  
**Incident Number NAPP2405454990**  
**Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, delineation, excavation, and soil sampling activities at the Poker Lake Unit 18 TWR CVB (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2405454990 until the Site is reconstructed, and/or the well pad is abandoned.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit D, Section 19, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.20603°, -103.82381°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On February 10, 2024, internal corrosion on a produced water pipeline resulted in the release of approximately 30.10 barrels (bbls) of produced water onto the surface of the well pad and around active production equipment and process piping. A vacuum truck was immediately dispatched to the Site and recovered approximately 5.00 bbls of released fluids. XTO submitted a Release Notification Form C-141 (Form C-141) on February 23, 2024 and the release was assigned Incident Number NAPP2405454990.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

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

Depth to groundwater at the Site is estimated to be greater than 110 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On August 7, 2023, a soil boring permitted by New Mexico Office of the State Engineer (OSE) well C-04759, located approximately 0.36 miles east of the Site was drilled utilizing a truck-mounted hollow-stem auger rig. The boring was drilled to a total depth of 110 feet bgs. A field geologist logged and described soils continuously. No

XTO Energy, Inc.  
Deferral Request  
Poker Lake Unit 18 TWR CVB

moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for the potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater at that location is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. Soil boring C-04759 well log is included in Appendix A. All wells used to evaluate depth to groundwater are presented on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 4,693 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

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

## SITE ASSESSMENT ACTIVITIES

On May 7, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven delineation soil samples (SS01 through SS07) were collected at a depth of 0.5 feet bgs. Delineation soil samples SS06 and SS07 were collected within the release extent and SS01 through SS05 were collected outside the release extent to define the edge of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected and a photographic log is included in Appendix B.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500. Soil samples delivered to the laboratory the same day they were collected may not have equilibrated to the 6 degrees Celsius required for shipment and long-term storage but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results for delineation soil sample SS06 indicated chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for soil sample SS07 indicated chloride concentrations exceeded reclamation requirement, indicating the presence of waste-containing soil. Soil samples collected outside of the release extent (SS01 through SS05) exhibited all COC concentrations

XTO Energy, Inc.  
Deferral Request  
Poker Lake Unit 18 TWR CVB

in compliance with the strictest Table I Closure Criteria and successfully defined the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results, additional delineation and excavation of impacted soil appeared warranted.

## DELINEATION AND EXCAVATION ACTIVITIES

Between May 31 and July 8, 2024, Ensolum personnel returned to the Site to oversee delineation and excavation activities. Eight potholes (PH01 through PH08) were advanced via hydrovac and six boreholes (BH01 through BH06) were advanced via hand auger to assess the lateral and vertical extent of the release. Some of the potholes (PH01 and PH02, PH04, PH06 through PH08) were advanced in the vicinity of where delineation soil samples were collected. PH01 was advanced in the area of SS07, PH02 in the area of SS06, PH04 in the area of SS05, PH06 in the area of SS01, PH07 in the area of SS02, and PH08 in the area SS03. All potholes and boreholes were advanced to depths ranging from 0.5 feet to 4 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 4 feet bgs. The delineation soil samples were field screened, handled, and submitted for analysis for the same COCs as described above. Field screening results and observations from all potholes and boreholes were logged on a lithologic/soil sampling log, which are included in Appendix C. All delineation soil sample locations are depicted on Figure 2.

Soil was excavated to the maximum extent possible (MEP) with a backhoe in the area represented by delineation soil sample SS06, which contained chloride concentrations exceeding the Closure Criteria. The excavation occurred on the well pad near active production equipment and pipelines. To direct excavation activities, Ensolum personnel screened soil for VOCs and chlorides. Following the removal of impacted soil, 5-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewall of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS05 were collected from the floor of the excavation at a depth of 1-foot bgs. Confirmation soil sample SW01 was collected from the sidewall of the excavation at depths ranging from ground surface to 1-foot bgs. All confirmation soil samples were handled and analyzed in the same manner as described above and submitted to Cardinal. All confirmation soil sample locations are depicted on Figure 3.

The final excavation extent measured approximately 970 square feet. A total of approximately 36 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the R360 Landfill Disposal Facility located in Hobbs, New Mexico. Subsequent to receipt of confirmation laboratory analytical results, the excavation area was backfilled with clean fill material and recontoured to match pre-existing conditions. Since the release occurred on a pad at an active facility, revegetation will not occur until final reclamation of the pad is conducted.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS06 and BH01 collected at 0.5 feet bgs indicated chloride concentrations exceeded Closure Criteria. Soils in the vicinity of soil sample SS06 were removed during excavation activities; however, the soils in the area of BH01 could not be removed due to the presence of active production equipment and pipelines restricting access of heavy equipment. The laboratory analytical results for delineation soil sample BH01A collected at 4 feet bgs did not indicate a chloride concentration that exceeded the Closure Criteria or the reclamation requirement. Therefore, the soils in the vicinity of BH01 have been vertically delineated to below the reclamation requirement at 4 feet bgs.

Laboratory analytical results for soil samples SS07, BH04, and BH06, all collected within the release area at 0.5 feet bgs, indicated elevated chloride concentrations that exceeded reclamation requirement.

XTO Energy, Inc.  
Deferral Request  
Poker Lake Unit 18 TWR CVB

These soil samples could not be accessed with heavy equipment either due to active production equipment and pipelines. The laboratory analytical results for delineations soil samples PH01 collected at 1 foot bgs, BH04B collected at 2 feet bgs, and BH06B collected at 2 feet bgs did not indicate chloride concentrations that exceed the Closure Criteria or the reclamation requirement. Therefore, the soils in the vicinity of SS07, BH04, and BH06 have been vertically delineated to below the reclamation requirement at 1 to 2 feet bgs. All other COC concentrations for the samples listed above and all other delineation soil samples collected indicated COC concentrations were below the strictest Table I Closure Criteria.

With the exception of chloride in soil sample BH01 collected at 0.5 feet bgs, laboratory analytical results for all confirmation soil samples collected indicated all COC concentrations were in compliance with the Closure Criteria. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix D.

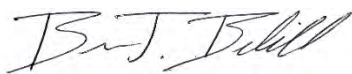
## DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to active production equipment and process piping present in the area of BH01. The estimated area of remaining impacted soil measures an area of 505 square feet, and a total of approximately 75 cubic yards of impacted soil remains in place, assuming a depth of 4 feet bgs based on laboratory analytical results from soil sample BH01A. The impacted soil is limited to the area where active production equipment and pipelines are present and remediation would require a major facility deconstruction. The deferral area has been vertically defined by soil sample BH01A at 4 feet bgs and laterally defined by SS01/PH06, SS02/PH07, BH06/BH06A and a lined containment wall. Waste-containing soil is present in the areas represented by delineation soil samples SS07, BH04, and BH06, where elevated chloride concentrations (ranging from 1,920 mg/kg to 13,000 mg/kg) exceed reclamation requirement. The chloride impacted soils in this area have been vertically delineated by soil samples PH01, BH04B, and BH06B to depths of 1 to 2 feet bgs. The soils in this area are located where active production equipment and pipelines are present and is approximately 1,490 square feet and includes approximately 111 yards of waste-containing soil. The proposed deferral area and the area with chloride concentrations exceeding reclamation requirement and all delineation soil samples used to define these areas are depicted on Figure 4.

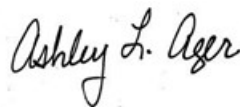
XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 110 feet, and the entirety of the release remained on pad. Based on the presence of active production equipment and process piping within the release area and the complete lateral and vertical definition of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2405454990 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,  
**Ensolum, LLC**



Benjamin J. Belill  
Senior Geologist



Ashley L. Ager, MS, PG  
Principal

XTO Energy, Inc.  
Deferral Request  
Poker Lake Unit 18 TWR CVB

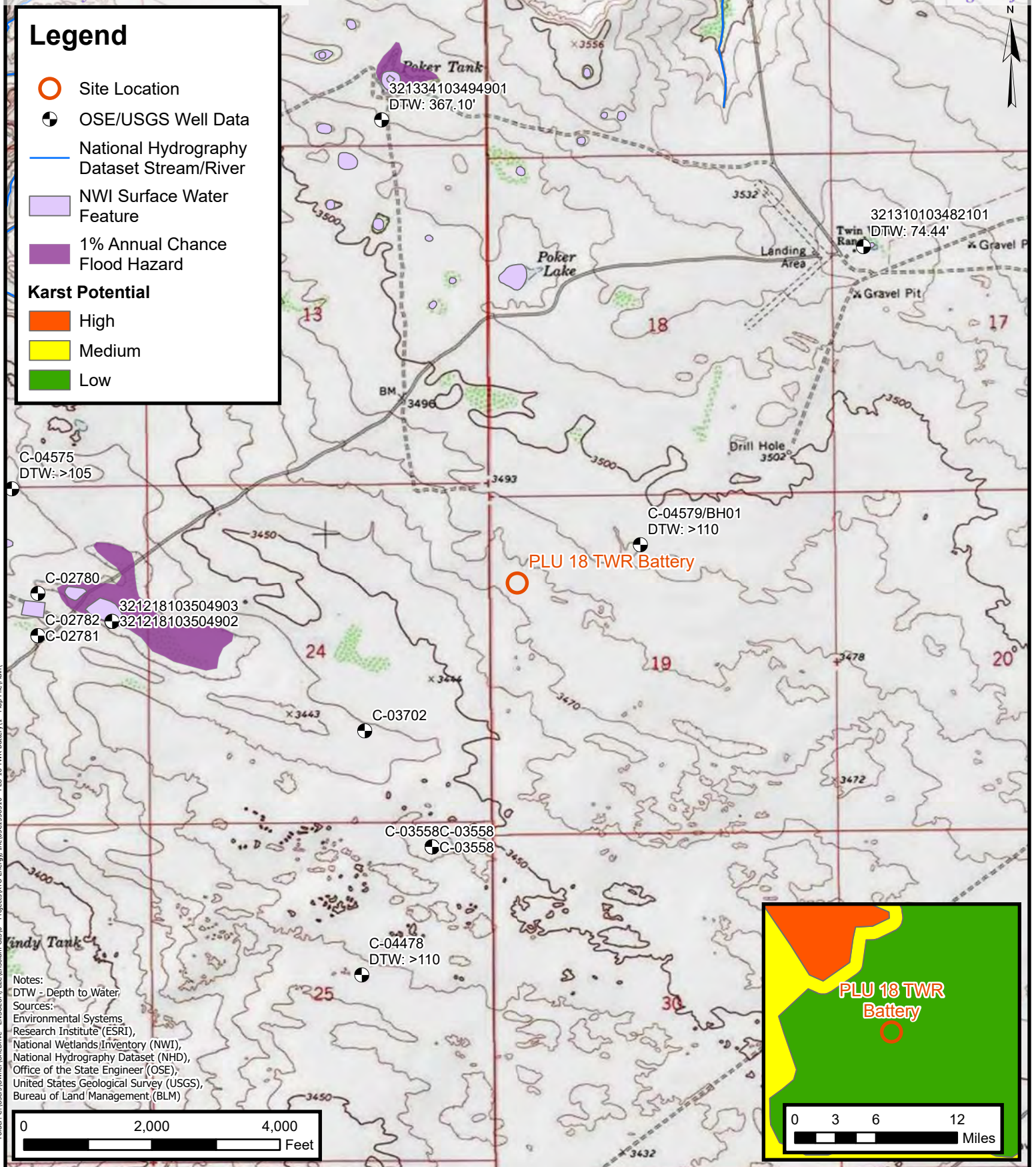
cc: Amy Ruth, XTO  
Amanda Garcia, XTO  
BLM

Appendices:

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



FIGURES



## Site Receptor Map

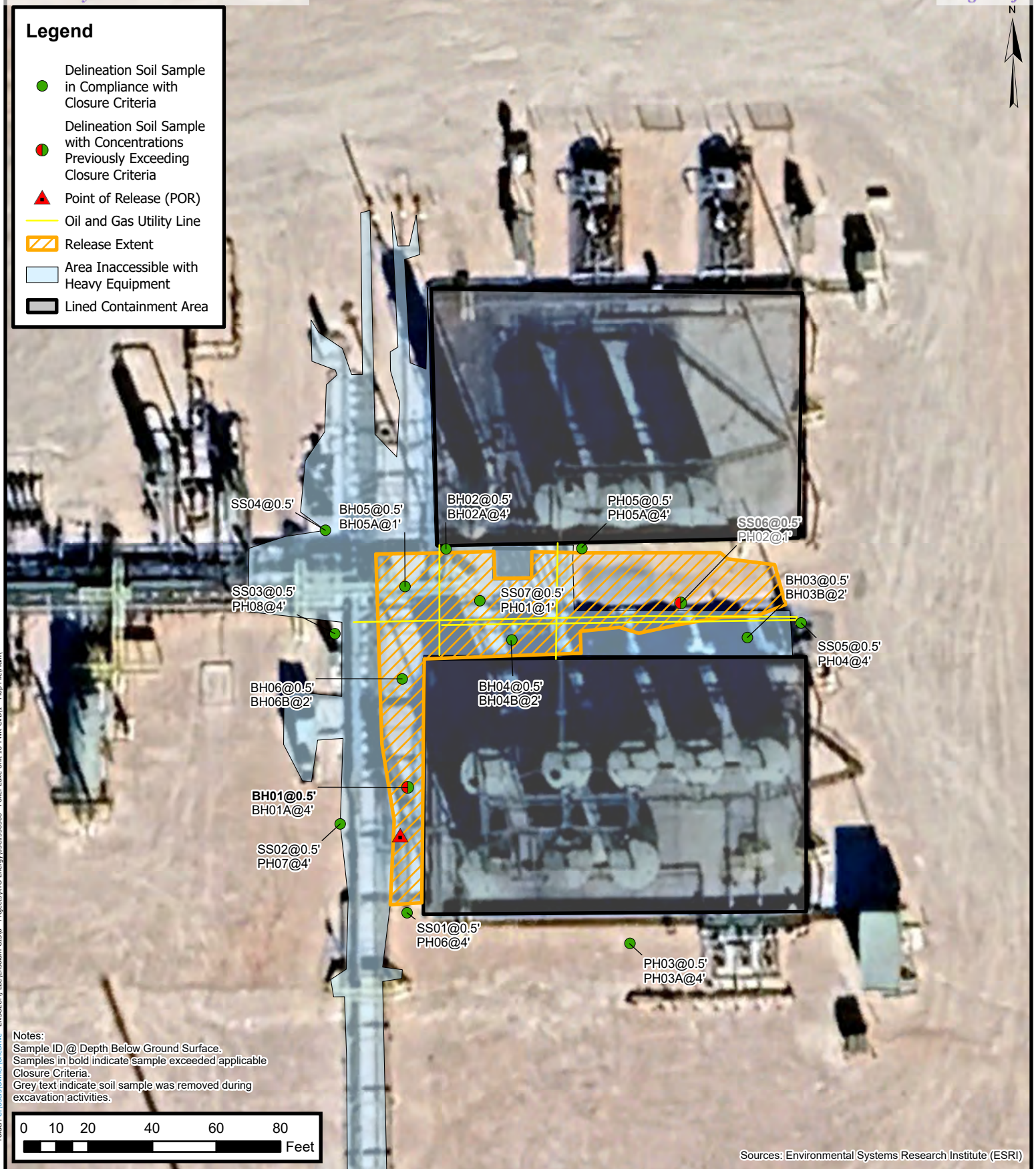
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Poker Lake Unit 18 TWR CVB  
Incident Number: nAPP2405454990  
Unit D, Sec. 19, T24S, R31E  
Eddy County, New Mexico

**FIGURE**

**1**

## Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Release Extent
- Area Inaccessible with Heavy Equipment
- Lined Containment Area

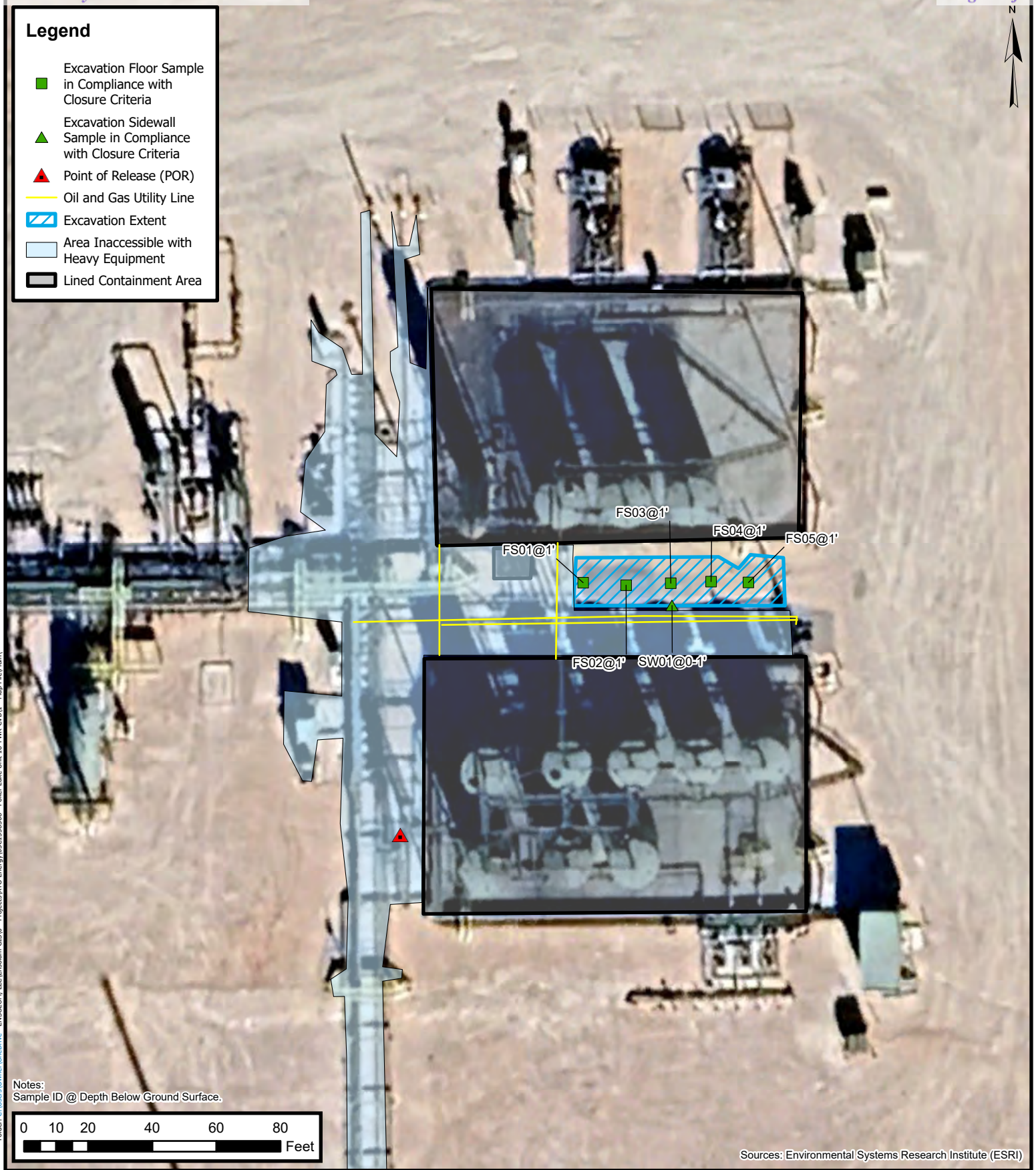


## Delineation Soil Sample Locations

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 Poker Lake Unit 18 TWR CVB  
 Incident Number: nAPP2405454990  
 Unit D, Sec. 19. T24S, R31E  
 Eddy County, New Mexico

FIGURE

2



## Excavation Soil Sample Locations

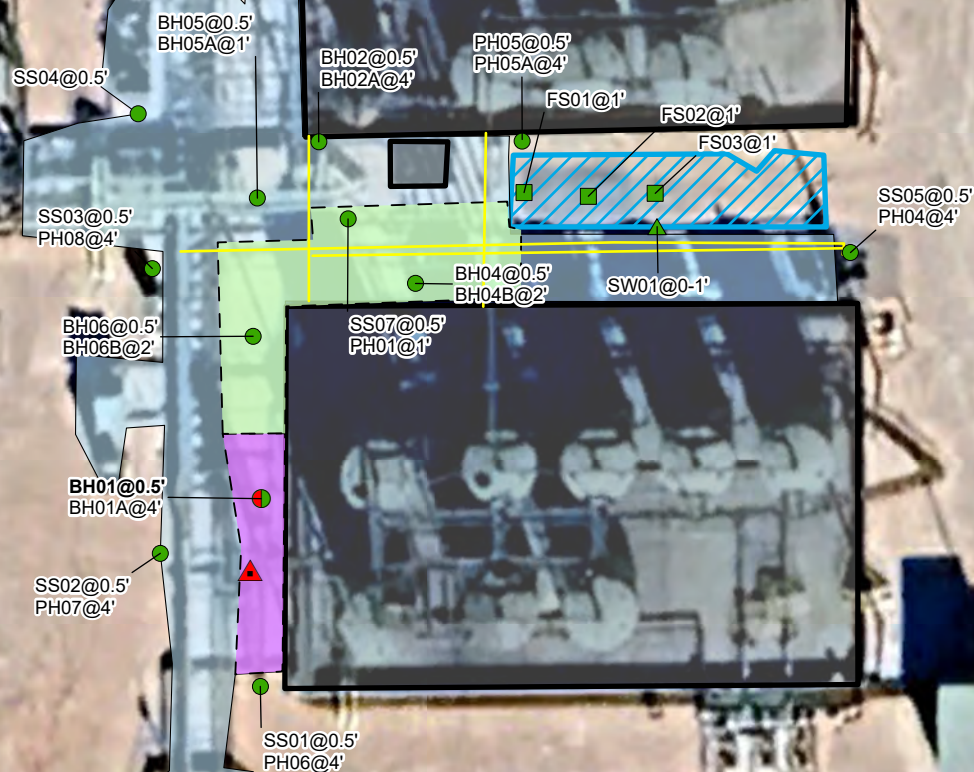
XTO Energy  
Poker Lake Unit 18 TWR CVB  
Incident Number: nAPP2405454990  
Unit D, Sec. 19, T24S, R31E  
Eddy County, New Mexico

**FIGURE**

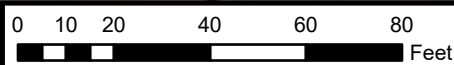
**3**

## Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- ▨ Excavation Extent
- Area Inaccessible with Heavy Equipment
- Lined Containment Area
- Area With concentrations Exceeding Reclamation Requirement
- Deferral Area



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



Sources: Environmental Systems Research Institute (ESRI)



**Deferral Area**  
 XTO Energy  
 Poker Lake Unit 18 TWR CVB  
 Incident Number: nAPP2405454990  
 Unit D, Sec. 19, T24S, R31E  
 Eddy County, New Mexico

**FIGURE**  
**4**



TABLES

TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Poker Lake Unit 18 TWR CVB  
XTO Energy, Inc  
Eddy County, New Mexico

| Sample I.D.                                    | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| Delineation Soil Samples                       |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01   | 05/07/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| PH06   | 05/31/2024  | 4                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 16.0             |
| SS02   | 05/07/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 32.0             |
| PH07   | 05/31/2024  | 4                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| SS03   | 05/07/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 80.0             |
| PH08   | 05/31/2024  | 4                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 16.0             |
| SS04   | 05/07/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 80.0             |
| SS05   | 05/07/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 80.0             |
| PH04   | 05/31/2024  | 4                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 32.0             |
| SS06   | 05/07/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | 11.0            | 32.0            | 11.0            | 43.0              | 20,800           |
| PH02   | 05/31/2024  | 4                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 32.0             |
| SS07   | 05/07/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | 20.4            | <10.0           | 20                | 13,000           |
| PH01   | 05/31/2024  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 288              |
| PH03   | 05/31/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 16.0             |
| PH03A  | 05/31/2024  | 4                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | <16.0            |
| PH05   | 05/31/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 112              |
| PH05A  | 05/31/2024  | 4                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 112              |
| BH01   | 05/31/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | 27.6            | <10.0           | 27.6            | 27.6              | 20,800           |
| BH01A  | 05/31/2024  | 4                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 400              |
| BH02   | 05/31/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 64.0             |
| BH02A  | 05/31/2024  | 4                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| BH03   | 07/08/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| BH03B  | 07/08/2024  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 32.0             |
| BH04   | 07/08/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 4,800            |
| BH04B  | 07/08/2024  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 16.0             |
| BH05   | 07/08/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 592              |
| BH05A  | 07/08/2024  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 240              |
| BH06   | 07/08/2024  | 0.5                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 1,920            |
| BH06B  | 07/08/2024  | 2                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 144              |

TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Poker Lake Unit 18 TWR CVB  
XTO Energy, Inc  
Eddy County, New Mexico

| Sample I.D.                                    | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| Confirmation Soil Samples                      |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| FS01   | 06/03/2024  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |
| FS02   | 06/03/2024  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 32.0             |
| FS03   | 06/03/2024  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 32.0             |
| FS04   | 06/03/2024  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 64.0             |
| FS05   | 06/03/2024  | 1                       | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 32.0             |
| SW01   | 06/03/2024  | 0-1                     | <0.050          | <0.300             | <10.0           | <10.0           | <10.0           | <10.0           | <10.0             | 48.0             |

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code


Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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|  <b>ENSOLUM</b> |                | Sample Name: C-04759 (BH01)       |                   | Date: 8/7/2023     |                       |                |                  |   |
|--|----------------|-----------------------------------|-------------------|--------------------|-----------------------|----------------|------------------|---|
|  |                | Site Name: PLU 18 TWR SAT BATTERY |                   |                    |                       |                |                  |   |
|  |                | Incident Number: nAPP2230551957   |                   |                    |                       |                |                  |   |
|  |                | Job Number: 03C1558144            |                   |                    |                       |                |                  |   |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>  |                |                                   |                   |                    |                       |                |                  |   |
| Coordinates: 32.207892, -103.817942  |                |                                   | Hole Diameter: 6" | Method: Air Rotary |                       |                |                  |   |
| Total Depth: 110'  |                |                                   |                   |                    |                       |                |                  |   |
| Comments: No field screening or sampling was conducted at the site.                              |                |                                   |                   |                    |                       |                |                  |   |
| Moisture Content   | Chloride (ppm) | Vapor (ppm)                       | Staining          | Sample ID          | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |
|  |                |                                   |                   |                    |                       | 0              | SP               | 0-10'. Sand w/ trace caliche. Reddish brown, very fine to fine grained, subrounded to subangular, poorly graded, dry.   |
|  |                |                                   |                   |                    |                       | 10             | CCHE             | 10-40'. Caliche w/ sand. Light brown to tan, very fine to fine grained, subrounded to subangular, poorly graded, dry.   |
|  |                |                                   |                   |                    | 20                    |                |                  |   |
|  |                |                                   |                   |                    | 30                    |                |                  |   |
|  |                |                                   |                   |                    | 40                    |                |                  |   |
|  |                |                                   |                   |                    |                       | 50             | SP               | 40-100'. Sand w/ trace caliche. Reddish brown, very fine to fine grained, subrounded to subangular grains, poorly graded, dry.<br><br>50': Injecting/adding water & soap at 50' |
|  |                |                                   |                   |                    | 60                    |                |                  |   |
|  |                |                                   |                   |                    | 70                    |                |                  |   |
|  |                |                                   |                   |                    | 80                    |                |                  |   |
|  |                |                                   |                   |                    | 90                    |                |                  |   |
|  |                |                                   |                   |                    | 100                   | 100            | SC               | 100-110'. Clayey sand, reddish orange very fine to fine grained, poorly graded, dry.  |
|  |                |                                   |                   |                    | 110                   | 110            |                  | 110': stopped drilling and set casing at 110'.  |
| TD @ 110' bgs.   |                |                                   |                   |                    |                       |                |                  |   |



## APPENDIX B

### Photographic Log

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## Photographic Log

XTO Energy, Inc

Poker Lake Unit 18 TWR CVB

Incident Number: nAPP2405454990



Photograph: 1 Date: 5/7/2024  
Description: Site assessment activities  
View: West

Photograph: 2 Date: 5/7/2024  
Description: Site assessment, release area.  
View: South



Photograph: 3 Date: 5/31/2024  
Description: Delineation activities, PH06.  
View: North

Photograph: 4 Date: 5/31/2024  
Description: Delineation activities, PH07.  
View: South

**Photographic Log**

XTO Energy, Inc

Poker Lake Unit 18 TWR CVB

Incident Number: nAPP2405454990



Photograph: 5                      Date: 6/3/2024  
Description: Surface scraping activities.  
View: East



Photograph: 6                      Date: 6/3/2024  
Description: Deferral area.  
View: South



Photograph: 7                      Date: 6/3/2024  
Description: Final excavation extent.  
View: East



Photograph: 8                      Date: 6/3/2024  
Description: Final excavation extent.  
View: West

**Photographic Log**

XTO Energy, Inc

Poker Lake Unit 18 TWR CVB

Incident Number: nAPP2405454990



Photograph: 9                      Date: 7/23/2024  
Description: Excavation backfilled.  
View: West




Photograph: 10                      Date: 7/23/2024  
Description: Excavation backfilled.  
View: West





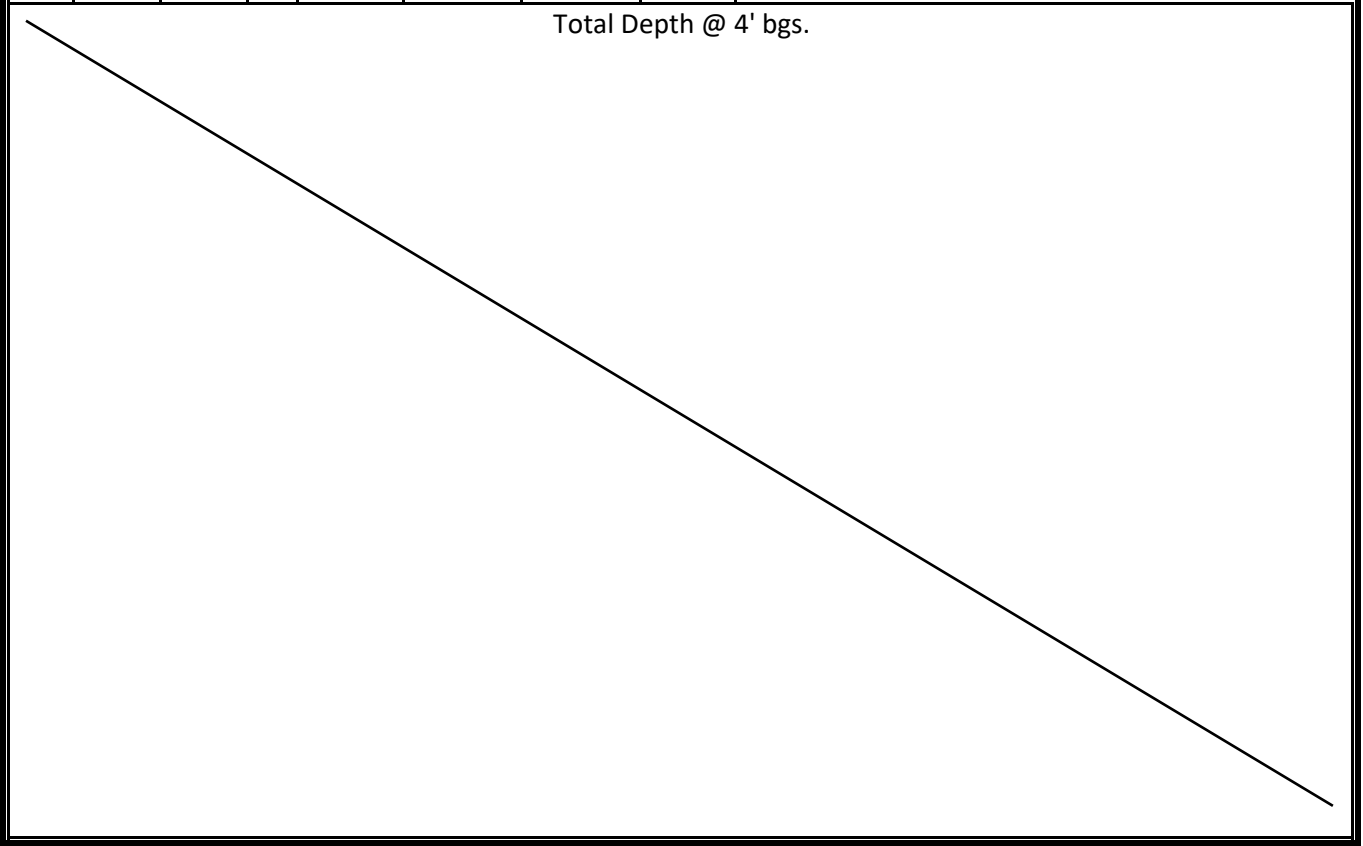
## APPENDIX C


### Lithologic Soil Sampling Logs


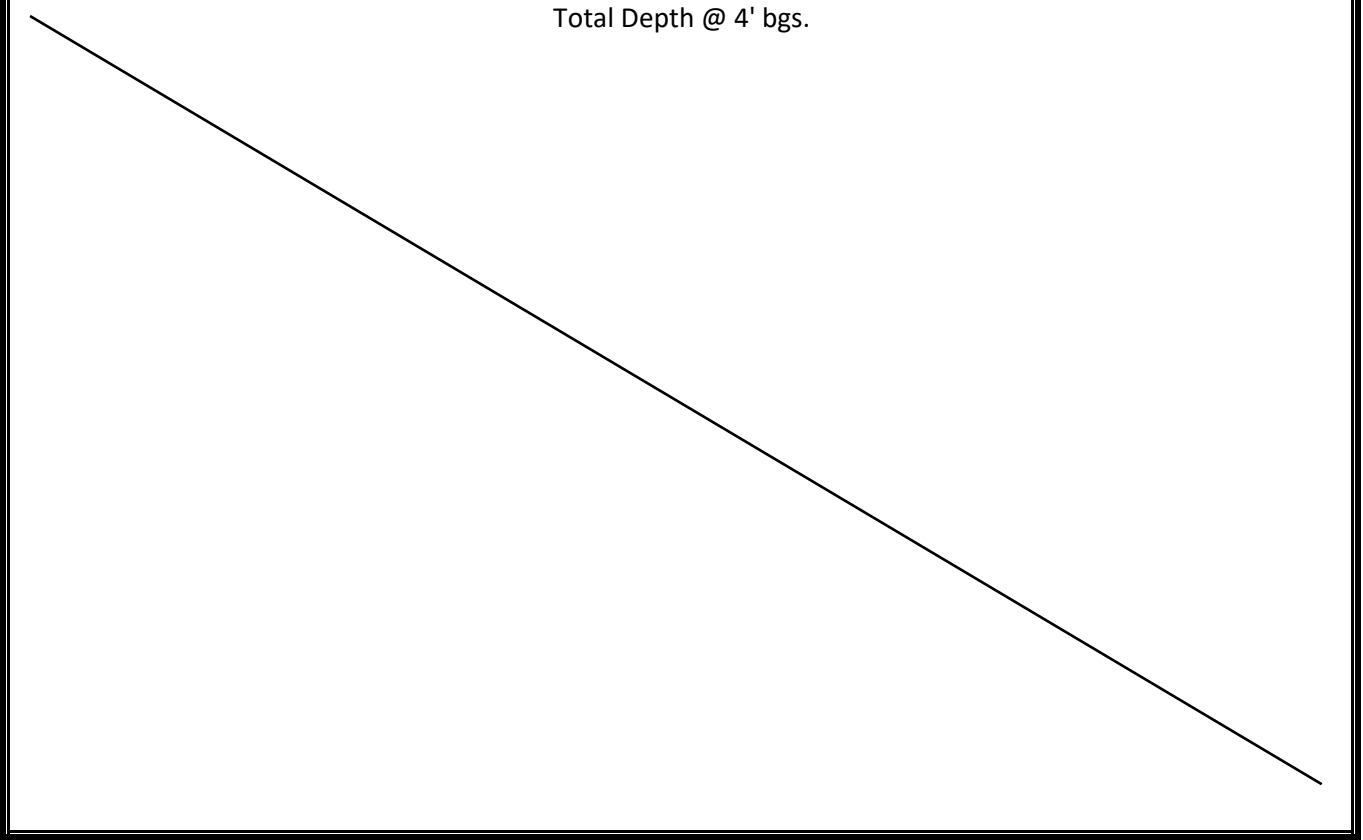
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|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|
|    |                |             |          |           |                       |                |                  | Sample Name: PH01  |  | Date: 5/31/2024  |  |
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman  |  | Method: Hydrovac |  |
| Coordinates: 32.206310, -103.823613   |                |             |          |           |                       |                |                  | Hole Diameter: ~1'   |  | Total Depth: 2'  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                  |  |
| D   | 9,206          | 0.0         | N        | SS07      | 0.5                   | 0              | SW               | Sand. Reddish brown, very fine - fine grained, well graded, some CCHF, dry, no odor, no staining.<br>Sand with silt. Brown, very fine grained, poorly graded, dry, no staining, no odor. |  |                  |  |
| D   | 274            | 0.0         | N        | PH01      | 1                     | 1              | SP               |  |  |                  |  |
| D   | <168           | 0.0         | N        |           | 2                     | 2              |                  |  |  |                  |  |
| Total Depth @ 2' bgs.   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |


|    |                |             |          |           |                       |                |                  | Sample Name: PH02   |  | Date: 5/31/2024  |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB   |  |                  |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990   |  |                  |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368  |  |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman   |  | Method: Hydrovac |  |
| Coordinates: 32.206305, -103.823396   |                |             |          |           |                       |                |                  | Hole Diameter: ~1'  |  | Total Depth: 2'  |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |   |  |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |  |                  |  |
|   |                |             |          |           |                       | 0              |                  |   |  |                  |  |
| D   | 11,827         | 0.0         | N        | SS06      | 0.5                   |                | SW               | Sand. Reddish brown, very fine - fine grained, well graded, some CCHF, dry, no odor, no staining. |  |                  |  |
| D   | 274            | 0.0         | N        | PH02      | 1                     | 1              | SP               | Sand with silt. Brown, very fine grained, poorly graded, dry, no staining, no odor.               |  |                  |  |
| D   | <168           | 0.0         | N        |           | 2                     | 2              |                  |   |  |                  |  |
| Total Depth @ 2' bgs.   |                |             |          |           |                       |                |                  |   |  |                  |  |


|   |                |             |          |           |                       |                |                  |   |  |                  |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|------------------|--|
|    |                |             |          |           |                       |                |                  | Sample Name: PH03   |  | Date: 5/31/2024  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB   |  |                  |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990   |  |                  |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368  |  |                  |  |
| Coordinates: 32.206014, -103.823451   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman   |  | Method: Hydrovac |  |
| Hole Diameter: ~1'  |                |             |          |           |                       |                |                  | 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. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |   |  |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |  |                  |  |
| D   | <168           | 0.0         | N        | PH03      | 0.5                   | 0              | CCHE             | Caliche with very fine brown sand and silt. Dry, no odor, no staining.<br>-----<br>Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, dry, no staining, no odor. |  |                  |  |
| D   | <168           | 0.0         | N        |           | 1                     | 1              | SP               |   |  |                  |  |
| D   | <168           | 0.0         | N        |           | 2                     | 2              |                  |   |  |                  |  |
| D   | <168           | 0.0         | N        |           | 3                     | 3              |                  |   |  |                  |  |
| D   | <168           | 0.0         | N        | PH03A     | 4                     | 4              |                  |   |  |                  |  |
| Total Depth @ 4' bgs.   |                |             |          |           |                       |                |                  |   |  |                  |  |
|   |                |             |          |           |                       |                |                  |   |  |                  |  |


|    |                |             |          |           |                       |                |                  | Sample Name: PH04  |  | Date: 5/31/2024  |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman  |  | Method: Hydrovac |  |
| Coordinates: 32.206287, -103.823275   |                |             |          |           |                       |                |                  | Hole Diameter: ~1'   |  | 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. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                  |  |
|   |                |             |          |           |                       | 0              |                  |  |  |                  |  |
| M   | <179           | 0.0         | N        | SS05      | 0.5                   |                | SW               | Sand. Reddish brown, very fine - fine grained, well graded, some CCH, dry, no odor or staining. Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor. |  |                  |  |
| M   | <168           | 0.0         | N        |           | 1                     | 1              | SP               |  |  |                  |  |
| M   | <168           | 0.0         | N        |           | 2                     | 2              |                  |  |  |                  |  |
| M   | <168           | 0.0         | N        |           | 3                     | 3              |                  |  |  |                  |  |
| M   | <168           | 0.0         | N        | PH04      | 4                     | 4              |                  |  |  |                  |  |
| Total Depth @ 4' bgs.   |                |             |          |           |                       |                |                  |  |  |                  |  |


|   |                |             |          |           |                       |                |                  |  |  |                  |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|
|    |                |             |          |           |                       |                |                  | Sample Name: PH05  |  | Date: 5/31/2024  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                  |  |
| Coordinates: 32.206353, -103.823495   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman  |  | Method: Hydrovac |  |
| Hole Diameter: ~1'  |                |             |          |           |                       |                |                  | 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. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                  |  |
| D   | <168           | 0.0         | N        | PH05      | 0.5                   | 0              | CCHE             | Caliche. Tan with brown sand and silt, dry, no odor, no staining.<br>-----<br>Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor. |  |                  |  |
| M   | <168           | 0.0         | N        |           | 1                     | 1              | SP               |  |  |                  |  |
| M   | <168           | 0.0         | N        |           | 2                     | 2              |                  |  |  |                  |  |
| M   | <168           | 0.0         | N        |           | 3                     | 3              |                  |  |  |                  |  |
| M   | <168           | 0.1         | N        | PH05A     | 4                     | 4              |                  |  |  |                  |  |
| Total Depth @ 4' bgs.   |                |             |          |           |                       |                |                  |  |  |                  |  |
|   |                |             |          |           |                       |                |                  |  |  |                  |  |


|    |                |             |          |           |                       |                |                  | Sample Name: PH06  |  | Date: 5/31/2024  |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman  |  | Method: Hydrovac |  |
| Coordinates: 32.206042, -103.823676   |                |             |          |           |                       |                |                  | Hole Diameter: ~1'   |  | 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. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                  |  |
|   |                |             |          |           |                       | 0              |                  |  |  |                  |  |
| D   | <179           | 0.0         | N        | SS01      | 0.5                   |                | SW               | Sand. Reddish brown, very fine - fine grained, well graded, some CCH, dry, no odor or staining. Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor. |  |                  |  |
| M   | <168           | 0.0         | N        |           | 1                     | 1              | SP               |  |  |                  |  |
| M   | <168           | 0.0         | N        |           | 2                     | 2              |                  |  |  |                  |  |
| M   | <168           | 0.0         | N        |           | 3                     | 3              |                  |  |  |                  |  |
| M   | <168           | 0.0         | N        | PH06A     | 4                     | 4              |                  |  |  |                  |  |
| Total Depth @ 4' bgs.   |                |             |          |           |                       |                |                  |  |  |                  |  |


|    |                |             |          |           |                       |                |                  | Sample Name: PH07   |  | Date: 5/31/2024  |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB   |  |                  |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990   |  |                  |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368  |  |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman   |  | Method: Hydrovac |  |
| Coordinates: 32.206119, -103.823742   |                |             |          |           |                       |                |                  | Hole Diameter: ~1'  |  | 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. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |   |  |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions   |  |                  |  |
|   |                |             |          |           |                       | 0              |                  |   |  |                  |  |
| D   | <179           | 0.0         | N        | SS02      | 0.5                   |                | SW               | Sand. Reddish brown, very fine - fine grained, well graded, some CCH, dry, no odor or staining.<br>Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor. |  |                  |  |
| M   | <168           | 0.0         | N        |           | 1                     | 1              | SP               |   |  |                  |  |
| M   | <168           | 0.0         | N        |           | 2                     | 2              |                  |   |  |                  |  |
| M   | <168           | 0.0         | N        |           | 3                     | 3              |                  |   |  |                  |  |
| M   | <168           | 0.0         | N        | PH07      | 4                     | 4              |                  |   |  |                  |  |
| Total Depth @ 4' bgs.   |                |             |          |           |                       |                |                  |   |  |                  |  |


|    |                |             |          |           |                       |                |                  | Sample Name: PH08  |  | Date: 5/31/2024  |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990  |  |                  |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman  |  | Method: Hydrovac |  |
| Coordinates: 32.206282, -103.823745   |                |             |          |           |                       |                |                  | Hole Diameter: ~1'   |  | 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. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                  |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                  |  |
|   |                |             |          |           |                       | 0              |                  |  |  |                  |  |
| D   | <179           | 0.0         | N        | SS03      | 0.5                   |                | SW               | Sand. Reddish brown, very fine - fine grained, well graded, some CCH, dry, no odor or staining. Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor. |  |                  |  |
| M   | <168           | 0.0         | N        |           | 1                     | 1              | SP               |  |  |                  |  |
| M   | <168           | 0.0         | N        |           | 2                     | 2              |                  |  |  |                  |  |
| M   | <168           | 0.0         | N        |           | 3                     | 3              |                  |  |  |                  |  |
| M   | <168           | 0.0         | N        | PH08      | 4                     | 4              |                  |  |  |                  |  |
| Total Depth @ 4' bgs.   |                |             |          |           |                       |                |                  |  |  |                  |  |


|    |                |             |          |           |                       |                |                  | Sample Name: BH01  |  | Date: 5/31/2024    |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB  |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990  |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman  |  | Method: Hand auger |  |
| Coordinates: 32.206150, -103.823673   |                |             |          |           |                       |                |                  | Hole Diameter: ~4"   |  | 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. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                    |  |
|   |                |             |          |           |                       | 0              |                  |  |  |                    |  |
| D   | 28,005         | 0.0         | Y        | BH01      | 0.5                   |                | CCHE             | Caliche. Tan with very fine brown sand and silt, <del>dry, slightly stained, no odor.</del>                                  |  |                    |  |
| M   | 2,794          | 0.0         | N        |           | 1                     | 1              | SP               | Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor. |  |                    |  |
| M   | 2,794          | 0.0         | N        |           | 2                     | 2              |                  |  |  |                    |  |
| M   | 2,794          | 0.0         | N        |           | 3                     | 3              |                  |  |  |                    |  |
| M   | 408            | 0.0         | N        | BH01A     | 4                     | 4              |                  |  |  |                    |  |
| M   | 514            | 0.0         | N        |           | 5                     | 5              |                  | some caliche.  |  |                    |  |
| Total Depth @ 5' bgs.   |                |             |          |           |                       |                |                  |  |  |                    |  |

|    |                |             |          |           |                       |                |                  | Sample Name: BH02  |  | Date: 5/31/2024    |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB  |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990  |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Connor Whitman  |  | Method: Hand auger |  |
| Coordinates: 32.206354, -103.823632   |                |             |          |           |                       |                |                  | Hole Diameter: ~4"   |  | 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. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                    |  |
|   |                |             |          |           |                       | 0              |                  |  |  |                    |  |
| D   | 201            | 0.0         | N        | BH02      | 0.5                   |                | CCHE             | Caliche. Tan with very fine brown sand and silt, dry, slightly stained, no odor.   |  |                    |  |
| M   | <168           | 0.0         | N        |           | 1                     | 1              | SP               | Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor. |  |                    |  |
| M   | <168           | 0.0         | N        |           | 2                     | 2              |                  |  |  |                    |  |
| M   | <168           | 0.0         | N        |           | 3                     | 3              |                  |  |  |                    |  |
| M   | <168           | 0.0         | N        | BH02A     | 4                     | 4              |                  |  |  |                    |  |
| Total Depth @ 4' bgs.   |                |             |          |           |                       |                |                  |  |  |                    |  |

|    |                |             |          |           |                       |                |                  | Sample Name: BH03  |  | Date: 7/8/24       |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB                          |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990                                |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Joshua Boxley                                       |  | Method: Hand Auger |  |
| Coordinates: 32.206275, -103.823329   |                |             |          |           |                       |                |                  | Hole Diameter: 4"  |  | Total Depth: 2'    |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                    |  |
| D   | <162.4         | 0.0         | N        | BH03      | 0.5                   | 0              | CCHE             | (0-1') CALICHE beige, brown sand, silt, dry, no odor, no stain |  |                    |  |
| D   | <162.4         | 0.0         | N        |           | 1                     | 1              | SP               | (1-2') SAND, dark brown, with LP clay no odor, no stain        |  |                    |  |
| D   | <162.4         | 0.0         | N        | BH03B     | 2                     | 2              |                  | Total depth @ 2' bgs   |  |                    |  |

|    |                |             |          |           |                       |                |                  | Sample Name: BH04  |  | Date: 7/8/24       |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB                          |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990                                |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Joshua Boxley                                       |  | Method: Hand Auger |  |
| Coordinates: 32.206272, -103.823568   |                |             |          |           |                       |                |                  | Hole Diameter: 4"  |  | Total Depth: 2'    |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                    |  |
| D   | 5,885.6        | 0.0         | N        | BH04      | 0.5                   | 0              | CCHE             | (0-1') CALICHE beige, brown sand, silt, dry, no odor, no stain |  |                    |  |
| D   | 1,416.8        | 0.0         | N        |           | 1                     | 1              | SP               | (1-2') SAND, dark brown, with LP clay no odor, no stain        |  |                    |  |
| D   | <162.4         | 0.0         | N        | BH04B     | 2                     | 2              |                  | Total depth @ 2' bgs   |  |                    |  |

|    |                |             |          |           |                       |                |                  | Sample Name: BH05  |  | Date: 7/8/24       |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB                          |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990                                |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Joshua Boxley                                       |  | Method: Hand Auger |  |
| Coordinates: 32.2062322, -103.823674  |                |             |          |           |                       |                |                  | Hole Diameter: 4"  |  | Total Depth: 2'    |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                    |  |
| D   | 800            | 0.0         | N        | BH05      | 0.5                   | 0              | CCHE             | (0-1') CALICHE beige, brown sand, silt, dry, no odor, no stain |  |                    |  |
| D   | 302.4          | 0.0         | N        | BH05A     | 1                     | 1              | SP               | (1-2') SAND, dark brown, with LP clay no odor, no stain        |  |                    |  |
| D   | <162.4         | 0.0         | N        |           | 2                     | 2              |                  | Total depth @ 2' bgs   |  |                    |  |

|    |                |             |          |           |                       |                |                  | Sample Name: BH06  |  | Date: 7/8/24       |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: Poker Lake Unit 18 TWR CVB                          |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAPP2405454990                                |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03C1558368   |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Joshua Boxley                                       |  | Method: Hand Auger |  |
| Coordinates: 32.206243, -103.823678   |                |             |          |           |                       |                |                  | Hole Diameter: 4"  |  | Total Depth: 2'    |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor. |                |             |          |           |                       |                |                  |  |  |                    |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                    |  |
| D   | 1,316          | 0.0         | N        | BH06      | 0.5                   | 0              | CCHE             | (0-1') CALICHE beige, brown sand, silt, dry, no odor, no stain |  |                    |  |
| D   | 728            | 0.0         | N        |           | 1                     | 1              | SP               | (1-2') SAND, dark brown, with LP clay no odor, no stain        |  |                    |  |
| D   | <162.4         | 0.0         | N        | BH06B     | 2                     | 2              |                  | Total depth @ 2' bgs   |  |                    |  |



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

May 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 18 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/07/24 15:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/07/2024  
Reported: 05/13/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS06 0.5' (H242478-01)**

| 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           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 3.31 |           |
| Toluene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 106        | 2.00          | 3.76 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 107        | 2.00          | 5.16 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/10/2024 | ND              | 6.51 | 108        | 6.00          | 6.19 |           |
| Total BTEX     | <0.300 | 0.300           | 05/10/2024 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 20800  | 16.0            | 05/10/2024 | ND              | 432 | 108        | 400           | 3.64 | 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            | 05/09/2024 | ND              | 197 | 98.5       | 200           | 0.158 |           |
| DRO >C10-C28*    | 32.0   | 10.0            | 05/09/2024 | ND              | 208 | 104        | 200           | 1.39  |           |
| EXT DRO >C28-C36 | 11.0   | 10.0            | 05/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/07/2024  
Reported: 05/13/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS07 0.5' (H242478-02)**

| 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           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 3.31 |           |
| Toluene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 106        | 2.00          | 3.76 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 107        | 2.00          | 5.16 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/10/2024 | ND              | 6.51 | 108        | 6.00          | 6.19 |           |
| Total BTEX     | <0.300 | 0.300           | 05/10/2024 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 13000  | 16.0            | 05/10/2024 | ND              | 432 | 108        | 400           | 3.64 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/09/2024 | ND              | 197 | 98.5       | 200           | 0.158 |           |
| DRO >C10-C28*    | 20.4   | 10.0            | 05/09/2024 | ND              | 208 | 104        | 200           | 1.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 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

- 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 "Caley D. Keene".

Caley D. Keene, Lab Director/Quality Manager



Ensolium, LLC  
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC

Project Manager: Ben Beill

City: Carlsbad State: NM Zip: 92008

Phone #: 1891854-0852 Fax #: 00220  
Project #: 03C15583108 Binford Qu...

Project Name: POKER Lake Unit 18 T

Project Location: 32.201803 - 103 833061

Sample Name: Mariah O'Dell

【FBI】

Phone #:

State: NM Zip: 88220

City: Carlsbad

Address: 3204 E. Greene St

**Name:** Amy Ruth

Company: X 10 Energy

P.O. #

01-77108

ANALYSIS REQUEST

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

Page 5 of 5



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

May 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 18 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/07/24 15:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/07/2024  
Reported: 05/13/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 01 0.5' (H242479-01)**

| 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           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 3.31 |           |
| Toluene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 106        | 2.00          | 3.76 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 107        | 2.00          | 5.16 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/10/2024 | ND              | 6.51 | 108        | 6.00          | 6.19 |           |
| Total BTX      | <0.300 | 0.300           | 05/10/2024 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 05/10/2024 | ND              | 432 | 108        | 400           | 3.64 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/09/2024 | ND              | 197 | 98.5       | 200           | 0.158 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/09/2024 | ND              | 208 | 104        | 200           | 1.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/07/2024  
Reported: 05/13/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 02 0.5' (H242479-02)**

| 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           | 05/13/2024 | ND              | 2.06 | 103        | 2.00          | 3.31 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/13/2024 | ND              | 2.13 | 106        | 2.00          | 3.76 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/13/2024 | ND              | 2.13 | 107        | 2.00          | 5.16 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/13/2024 | ND              | 6.51 | 108        | 6.00          | 6.19 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/13/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 05/10/2024 | ND              | 432 | 108        | 400           | 3.64 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/09/2024 | ND              | 197 | 98.5       | 200           | 0.158 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/09/2024 | ND              | 208 | 104        | 200           | 1.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/07/2024  
Reported: 05/13/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 03 0.5' (H242479-03)**

| 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           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 3.31 |           |
| Toluene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 106        | 2.00          | 3.76 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 107        | 2.00          | 5.16 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/10/2024 | ND              | 6.51 | 108        | 6.00          | 6.19 |           |
| Total BTX      | <0.300 | 0.300           | 05/10/2024 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 05/10/2024 | ND              | 432 | 108        | 400           | 3.64 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/09/2024 | ND              | 197 | 98.5       | 200           | 0.158 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/09/2024 | ND              | 208 | 104        | 200           | 1.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/07/2024  
Reported: 05/13/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 04 0.5' (H242479-04)**

| 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           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 3.31 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 106        | 2.00          | 3.76 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 107        | 2.00          | 5.16 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/10/2024 | ND              | 6.51 | 108        | 6.00          | 6.19 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/10/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 80.0   | 16.0            | 05/10/2024 | ND              | 432 | 108        | 400           | 3.64 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/09/2024 | ND              | 197 | 98.5       | 200           | 0.158 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/09/2024 | ND              | 208 | 104        | 200           | 1.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/07/2024  
Reported: 05/13/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/07/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 05 0.5' (H242479-05)**

| 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           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 3.31 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 106        | 2.00          | 3.76 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/10/2024 | ND              | 2.13 | 107        | 2.00          | 5.16 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/10/2024 | ND              | 6.51 | 108        | 6.00          | 6.19 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/10/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 80.0   | 16.0            | 05/10/2024 | ND              | 432 | 108        | 400           | 3.64 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/09/2024 | ND              | 197 | 98.5       | 200           | 0.158 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/09/2024 | ND              | 208 | 104        | 200           | 1.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 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

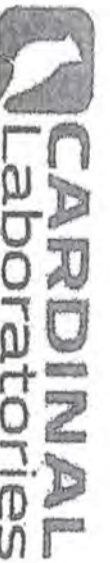
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Maryland, Hobbs, NM 88240  
(576) 393-2326 FAX (576) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ben Bell

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: (989) 854-0852 Fax #:

Project #: 03C1558308 Project Owner:

Project Name: POKER Lake Unit 18 TWR CVR

Project Location: 32.20003, -103.82381

Sampler Name: Manaha O'Dell

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: ~~Acme Energy~~

Attn: Amy Ruth

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chlorides

TPH

BTEX

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Relinquished By:

Date:

Received By:

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

All Results are emailed. Please provide Email address:

Relinquished By:

Date:

Received By:

REMARKS: Incident #: nApp2405454990  
cost center: 211011661

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: 5 days

Thermometer ID: #113

Standard ☒ Rusty ☐

Bacteria (only) Sample Condition Cool Intact ☒ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

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



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

June 07, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 18 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 06/04/24 14:20.

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

Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 01 1 (H243132-01)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        | mg/kg  |                 | Analyzed By: MS |              |     |            |               |      |           |
|------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024      | ND           | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024      | ND           | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024      | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 02 1 (H243132-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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             | 32.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BH 01 .5 (H243132-03)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 20800  | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | 27.6   | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BH 01A 4 (H243132-04)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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             | 400    | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 04 4 (H243132-05)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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             | 32.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 101 % 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05 .5 (H243132-06)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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             | 112    | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 05A 4 (H243132-07)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 103 % 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 06 4 (H243132-08)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 07 4 (H243132-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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             | 48.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 08 4 (H243132-10)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 03 .5 (H243132-11)**

| 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           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 16.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 229 | 114        | 200           | 2.45 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 230 | 115        | 200           | 3.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: PH 03A 4 (H243132-12)**

| 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           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 209 | 105        | 200           | 2.00 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 215 | 108        | 200           | 4.07 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 94.2 % 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BH 02 .5 (H243132-13)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |
| Total BTX      | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 64.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 209 | 105        | 200           | 2.00 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 215 | 108        | 200           | 4.07 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 05/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BH 02A 4 (H243132-14)**

| 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           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 209 | 105        | 200           | 2.00 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 215 | 108        | 200           | 4.07 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 67.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.5 % 49.1-148

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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

## 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> 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> Amy Ruth |                         |         |          |                                     |         |      |      |     |          |  |  |  |  |  |  |
| <b>Phone #:</b> 337 257-8307                    | <b>Fax #:</b>    |                        |                                   | <b>Address:</b> 3104 E. Green St. |             |            |                       |                         |         |          |                                     |         |      |      |     |          |  |  |  |  |  |  |
| <b>Project #:</b> 03C1558368                    |                  |                        |                                   | <b>Project Owner:</b> XTO         |             |            |                       | <b>City:</b> Carlsbad   |         |          |                                     |         |      |      |     |          |  |  |  |  |  |  |
| <b>Project Name:</b> Poker Lake Unit 18 TWR CVB |                  |                        |                                   | <b>State:</b> NM                  |             |            |                       | <b>Zip:</b> 88220       |         |          |                                     |         |      |      |     |          |  |  |  |  |  |  |
| <b>Project Location:</b>                        |                  |                        |                                   | <b>Phone #:</b>                   |             |            |                       |                         |         |          |                                     |         |      |      |     |          |  |  |  |  |  |  |
| <b>Sampler Name:</b> Connor Whitman             |                  |                        |                                   | <b>Fax #:</b>                     |             |            |                       |                         |         |          |                                     |         |      |      |     |          |  |  |  |  |  |  |
| FOR LAB USE ONLY                                |                  |                        |                                   |                                   |             |            |                       |                         |         |          |                                     |         |      |      |     |          |  |  |  |  |  |  |
| Lab I.D.  | Sample I.D.      | Sample Depth<br>(feet) | (G)RAB OR (C)OMP.<br># CONTAINERS |                                   | MATRIX      |            |                       |                         | PRESERV | SAMPLING |                                     |         |      |      |     |          |  |  |  |  |  |  |
|   |                  |                        |                                   |                                   | GROUNDWATER | WASTEWATER | SOIL                  | OIL                     | SLUDGE  | OTHER :  | ACID/BASE:<br>ICE / COOL<br>OTHER : | DATE    | TIME | BTEX | TPH | CHLORIDE |  |  |  |  |  |  |
| H343132   | PH01             | 1                      | G                                 | 1                                 |             |            |                       |                         |         |          |                                     | 5-31-24 | 950  |      |     |          |  |  |  |  |  |  |
|   | PH02             | 1                      |                                   |                                   |             |            |                       |                         |         |          |                                     |         | 1005 |      |     |          |  |  |  |  |  |  |
|   | BH01             | .5                     |                                   |                                   |             |            |                       |                         |         |          |                                     |         | 1020 |      |     |          |  |  |  |  |  |  |
|   | BH0A             | 4                      |                                   |                                   |             |            |                       |                         |         |          |                                     |         | 1050 |      |     |          |  |  |  |  |  |  |
|   | PH04             | 4                      |                                   |                                   |             |            |                       |                         |         |          |                                     |         | 1210 |      |     |          |  |  |  |  |  |  |
|   | PH05             | .5                     |                                   |                                   |             |            |                       |                         |         |          |                                     |         | 1215 |      |     |          |  |  |  |  |  |  |
|   | PH0SA            | 4                      |                                   |                                   |             |            |                       |                         |         |          |                                     |         | 1235 |      |     |          |  |  |  |  |  |  |
|   | PH06             | 4                      |                                   |                                   |             |            |                       |                         |         |          |                                     |         | 1255 |      |     |          |  |  |  |  |  |  |
|   | PH07             | 4                      |                                   |                                   |             |            |                       |                         |         |          |                                     |         | 1325 |      |     |          |  |  |  |  |  |  |
|   | PH08             | 4                      |                                   |                                   |             |            |                       |                         |         |          |                                     |         | 1355 |      |     |          |  |  |  |  |  |  |

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|   |  |  |                                 |
|---|--|--|---------------------------------|
| <b>Relinquished By:</b> LHA                                       |  | <b>Date:</b> 6-4-24  | <b>Received By:</b> [Signature] |
| <b>Relinquished By:</b>   |  | <b>Date:</b>   | <b>Received By:</b>             |
| <b>Time:</b> 1400   |  | <b>Time:</b>   |                                 |
| <b>Observed Temp. °C:</b> 23                                      |  | <b>CHECKED BY:</b> [Initials]  |                                 |
| <b>Corrected Temp. °C:</b>  |  | <b>Sample Condition:</b><br><input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      |                                 |
| <b>Delivered By: (Circle One)</b><br>Sampler - UPS - Bus - Other: |  | <b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>   |                                 |
|   |  | <b>Thermometer ID #:</b> 443 #140  |                                 |
|   |  | <b>Corrosion Factor:</b> SSC SPC 6/14/24   |                                 |
|   |  | <b>Bacteria (only) Sample Condition:</b><br><input type="checkbox"/> Cool <input type="checkbox"/> Intact<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                                 |
|   |  | <b>Observed Temp. °C:</b>  |                                 |
|   |  | <b>Corrected Temp. °C:</b>   |                                 |

**REMARKS:**  
Cost Center: Fapp2126740996 Incident ID: nAPP2405454990

All Results are emailed. Please provide Email address: tbeil@ensolum.com, TMorrissey@ensolum.com

Verbal Result: ☐ Yes ☐ 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

Project Manager: Ben Bell

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 337 257-8307

State: NM Zip: 88220

Project #: 03C1558368

Fax #:

Project Owner: XTO

Project Name: Poker Lake Unit 18 TWR CVB

Project Location:

Sampler Name: Connor Whitman

BILL TO

P.O. #:

Company: XTO Energy Inc.

Attn: Amy Ruth

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Depth (feet)

(G)RAB OR (C)OMP.  
# CONTAINERS

MATRIX

PRESERV.

SAMPLING

BTEX  
TPH  
CHLORIDE

11 PHG3  
12 PHG3A  
13 BHQ2  
14 BHQ2A

.5  
4  
5  
4

1  
1  
1  
1

GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER :

ACID/BASE:  
ICE / COOL  
OTHER :

DATE  
TIME

5-31-24  
1410  
1430  
1435  
1455

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Relinquished By:

Date: 6-4-24

Received By:

Signature

Relinquished By:

Date: 6-4-24

Received By:

Signature

Delivered By: (Circle One)

Observed Temp.: °C

27.3

Sample Condition  
Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: Standard ☒ Rush ☐

Cost Center: Fapp21267/40996 Incident ID: nAPP2405454990

Sampler - UPS - Bus - Other:

Corrected Temp.: °C

Bacteria (only) Sample Condition  
Cool Intact ☐ Yes ☐ No

Thermometer ID #140

Correction Factor: -0.5°C

Observed Temp.: °C

Corrected Temp.: °C

FORM 006 R 3.2 T010721

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



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

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June 07, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 18 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 06/04/24 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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, appearing to read "Mike Snyder", is written over a light gray rectangular background.

Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 06/03/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 01 1' (H243133-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |
| Total BTX      | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 209 | 105        | 200           | 2.00 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 215 | 108        | 200           | 4.07 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 06/03/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 02 1' (H243133-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 209 | 105        | 200           | 2.00 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 215 | 108        | 200           | 4.07 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 06/03/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 03 1' (H243133-03)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 209 | 105        | 200           | 2.00 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 215 | 108        | 200           | 4.07 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 06/03/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 04 1' (H243133-04)**

| 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           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |
| Total BTX      | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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             | 64.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 209 | 105        | 200           | 2.00 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 215 | 108        | 200           | 4.07 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 06/03/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 05 1' (H243133-05)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 06/07/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 209 | 105        | 200           | 2.00 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 215 | 108        | 200           | 4.07 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 06/04/2024  
Reported: 06/07/2024  
Project Name: POKER LAKE UNIT 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603, -103.82381

Sampling Date: 06/03/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 01 0-1' (H243133-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.92 | 96.1       | 2.00          | 1.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/05/2024 | ND              | 1.89 | 94.7       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2024 | ND              | 1.77 | 88.5       | 2.00          | 2.95 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2024 | ND              | 5.51 | 91.8       | 6.00          | 3.06 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/05/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 06/06/2024 | ND              | 432 | 108        | 400           | 3.64 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 06/05/2024 | ND              | 209 | 105        | 200           | 2.00 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/05/2024 | ND              | 215 | 108        | 200           | 4.07 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/05/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

|      |  |
|------|--|
| 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<br>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 "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC  
Project Manager: Ben Belli

Address: 3122 National Parks Hwy  
City: Carlsbad

Phone #: 337 257-8307 State: NM Zip: 88220  
Fax #: Project Owner: XTO

Project #: 03C1558368

Project Name: Poker Lake Unit 18 TWR CVB  
Project Location:

Sampler Name: Connor Whitman

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: XTO Energy Inc.

Attn: Amy Ruth

Address: 3104 E. Green St.  
City: Carlsbad

State: NM Zip: 88220  
Phone #:  
Fax #:

ANALYSIS REQUEST

| Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      | PRESERV.   | SAMPLING | DATE | TIME | BTEX | TPH | CHLORIDE |
|----------|-------------|---------------------|-------------------|--------------|-------------|------------|----------|------|------|------|-----|----------|
| 4243133  | F301        | 1                   | U                 | 1            | GROUNDWATER | ACID/BASE: | 6-3-24   | 1600 |      |      |     |          |
|          | F302        | 1                   | U                 | 1            | WASTEWATER  | ICE / COOL |          | 1605 |      |      |     |          |
|          | F303        | 1                   | U                 | 1            | SOIL        | OTHER:     |          | 1610 |      |      |     |          |
|          | F304        | 1                   | U                 | 1            | OIL         | OTHER:     |          | 1615 |      |      |     |          |
|          | F305        | 1                   | U                 | 1            | SLUDGE      | OTHER:     |          | 1620 |      |      |     |          |
|          | SL01        | 0-1                 | U                 | 1            | OTHER:      | OTHER:     |          | 1625 |      |      |     |          |

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Relinquished By:

CHW

Date: 6-4-24

Time: 1420

Received By:

Connor Whitman

Date:

Time:

Relinquished By:

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

FORM 000-R-3-2 (10/17/21)

Observed Temp. °C 2.3  
Corrected Temp. °C

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

CHECKED BY: (Initials)  
A.E.

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID: #1420  
Correction Factor: -0.3°C

Bacteria (only) Sample Condition  
Cool Intact ☒ Yes ☐ No  
Observed Temp. °C  
Corrected Temp. °C

REMARKS:

Cost Center: Fapp21267/40996 Incident ID: nAPP2405454990



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

July 15, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 18 TWR CVB

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 07/09/2024  
Reported: 07/15/2024  
Project Name: PLU 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603-103.82381

Sampling Date: 07/08/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 03 0.5' (H244064-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.89 | 94.6       | 2.00          | 1.21  |           |
| Toluene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.93 | 96.5       | 2.00          | 0.558 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/10/2024 | ND              | 2.07 | 103        | 2.00          | 0.821 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/10/2024 | ND              | 6.10 | 102        | 6.00          | 0.662 |           |
| Total BTX      | <0.300 | 0.300           | 07/10/2024 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: CT |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 07/10/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/10/2024 | ND              | 186 | 93.1       | 200           | 0.725 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/10/2024 | ND              | 183 | 91.7       | 200           | 0.735 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/10/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 07/09/2024  
Reported: 07/15/2024  
Project Name: PLU 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603-103.82381

Sampling Date: 07/08/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 03B 2' (H244064-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.89 | 94.6       | 2.00          | 1.21  |           |
| Toluene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.93 | 96.5       | 2.00          | 0.558 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/10/2024 | ND              | 2.07 | 103        | 2.00          | 0.821 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/10/2024 | ND              | 6.10 | 102        | 6.00          | 0.662 |           |
| Total BTEX     | <0.300 | 0.300           | 07/10/2024 | ND              |      |            |               |       |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: CT |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 07/10/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/10/2024 | ND              | 186 | 93.1       | 200           | 0.725 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/10/2024 | ND              | 183 | 91.7       | 200           | 0.735 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/10/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 07/09/2024  
Reported: 07/15/2024  
Project Name: PLU 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603-103.82381

Sampling Date: 07/08/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 04 0.5' (H244064-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.89 | 94.6       | 2.00          | 1.21  |           |  |
| Toluene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.93 | 96.5       | 2.00          | 0.558 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/10/2024 | ND              | 2.07 | 103        | 2.00          | 0.821 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/10/2024 | ND              | 6.10 | 102        | 6.00          | 0.662 |           |  |
| Total BTEX     | <0.300 | 0.300           | 07/10/2024 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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             | 4800   | 16.0            | 07/10/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/10/2024 | ND              | 186 | 93.1       | 200           | 0.725 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/10/2024 | ND              | 183 | 91.7       | 200           | 0.735 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/10/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 89.5 % 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: 07/09/2024  
Reported: 07/15/2024  
Project Name: PLU 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603-103.82381

Sampling Date: 07/08/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 04B 2' (H244064-04)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.89 | 94.6       | 2.00          | 1.21  |           |  |
| Toluene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.93 | 96.5       | 2.00          | 0.558 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/10/2024 | ND              | 2.07 | 103        | 2.00          | 0.821 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/10/2024 | ND              | 6.10 | 102        | 6.00          | 0.662 |           |  |
| Total BTEX     | <0.300 | 0.300           | 07/10/2024 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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             | 16.0   | 16.0            | 07/10/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/10/2024 | ND              | 186 | 93.1       | 200           | 0.725 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/10/2024 | ND              | 183 | 91.7       | 200           | 0.735 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/10/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 07/09/2024  
Reported: 07/15/2024  
Project Name: PLU 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603-103.82381

Sampling Date: 07/08/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 05 0.5' (H244064-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.89 | 94.6       | 2.00          | 1.21  |           |  |
| Toluene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.93 | 96.5       | 2.00          | 0.558 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/10/2024 | ND              | 2.07 | 103        | 2.00          | 0.821 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/10/2024 | ND              | 6.10 | 102        | 6.00          | 0.662 |           |  |
| Total BTEX     | <0.300 | 0.300           | 07/10/2024 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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             | 592    | 16.0            | 07/10/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/10/2024 | ND              | 186 | 93.1       | 200           | 0.725 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/10/2024 | ND              | 183 | 91.7       | 200           | 0.735 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/10/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received: 07/09/2024  
 Reported: 07/15/2024  
 Project Name: PLU 18 TWR CVB  
 Project Number: 03C1558368  
 Project Location: XTO 32.20603-103.82381

Sampling Date: 07/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 05A 1' (H244064-06)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.89 | 94.6       | 2.00          | 1.21  |           |
| Toluene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.93 | 96.5       | 2.00          | 0.558 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/10/2024 | ND              | 2.07 | 103        | 2.00          | 0.821 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/10/2024 | ND              | 6.10 | 102        | 6.00          | 0.662 |           |
| Total BTEX     | <0.300 | 0.300           | 07/10/2024 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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             | 240    | 16.0            | 07/10/2024 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/10/2024 | ND              | 186 | 93.1       | 200           | 0.725 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/10/2024 | ND              | 183 | 91.7       | 200           | 0.735 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/10/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 07/09/2024  
Reported: 07/15/2024  
Project Name: PLU 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603-103.82381

Sampling Date: 07/08/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 06 0.5' (H244064-07)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.89 | 94.6       | 2.00          | 1.21  |           |  |
| Toluene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.93 | 96.5       | 2.00          | 0.558 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/10/2024 | ND              | 2.07 | 103        | 2.00          | 0.821 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/10/2024 | ND              | 6.10 | 102        | 6.00          | 0.662 |           |  |
| Total BTEX     | <0.300 | 0.300           | 07/10/2024 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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            | 07/10/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/10/2024 | ND              | 186 | 93.1       | 200           | 0.725 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/10/2024 | ND              | 183 | 91.7       | 200           | 0.735 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/10/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 07/09/2024  
Reported: 07/15/2024  
Project Name: PLU 18 TWR CVB  
Project Number: 03C1558368  
Project Location: XTO 32.20603-103.82381

Sampling Date: 07/08/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 06B 2' (H244064-08)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.89 | 94.6       | 2.00          | 1.21  |           |  |
| Toluene*       | <0.050 | 0.050           | 07/10/2024 | ND              | 1.93 | 96.5       | 2.00          | 0.558 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/10/2024 | ND              | 2.07 | 103        | 2.00          | 0.821 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/10/2024 | ND              | 6.10 | 102        | 6.00          | 0.662 |           |  |
| Total BTEX     | <0.300 | 0.300           | 07/10/2024 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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             | 144    | 16.0            | 07/10/2024 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/10/2024 | ND              | 186 | 93.1       | 200           | 0.725 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/10/2024 | ND              | 183 | 91.7       | 200           | 0.735 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/10/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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<br>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]

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

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

QUESTIONS

Action 371378

QUESTIONS

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380  |
|   | Action Number:<br>371378  |
|   | Action Type:<br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

QUESTIONS

|                      |   |
|----------------------|---|
| <b>Prerequisites</b> |   |
| Incident ID (n#)     | nAPP2405454990                                |
| Incident Name        | NAPP2405454990 POKER LAKE UNIT 18 TWR CVB @ 0 |
| Incident Type        | Produced Water Release                        |
| Incident Status      | Deferral Request Received                     |

|   |                            |
|---|----------------------------|
| <b>Location of Release Source</b>                     |                            |
| <i>Please answer all the questions in this group.</i> |                            |
| Site Name   | Poker Lake Unit 18 TWR CVB |
| Date Release Discovered                               | 02/10/2024                 |
| Surface Owner   | Federal                    |

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

|   |  |
|---|--|
| <b>Nature and Volume of Release</b>   |  |
| <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i> |  |
| Crude Oil Released (bbls) Details   | Not answered.  |
| Produced Water Released (bbls) Details  | Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 30 BBL   Recovered: 5 BBL   Lost: 25 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  | Not answered.  |
| Natural Gas Flared (Mcf) Details  | Not answered.  |
| Other Released Details  | Not answered.  |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)  | Not answered.  |

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

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

**District IV**

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

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

QUESTIONS, Page 2

Action 371378

**QUESTIONS (continued)**

|   |                |   |
|---|----------------|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:         | 5380  |
|   | Action Number: | 371378  |
|   | Action Type:   | [C-141] Deferral Request C-141 (C-141-v-Deferral) |
|   |                |   |

**QUESTIONS**

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

**Initial Response**

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

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

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

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Colton Brown<br>Title: Environmental Advisor<br>Email: colton.s.brown@exxonmobil.com<br>Date: 08/07/2024 |
|--|--|

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 371378

QUESTIONS (continued)

|   |                |
|---|----------------|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:         |
|   | 5380           |
|   | Action Number: |
|   | 371378         |
| Action Type:  |                |
| [C-141] Deferral Request C-141 (C-141-v-Deferral)                               |                |

QUESTIONS

|  |                           |
|--|---------------------------|
| <b>Site Characterization</b>   |                           |
| <i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i> |                           |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)   | Between 100 and 500 (ft.) |
| What method was used to determine the depth to ground water  | Attached Document         |
| 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 ½ and 1 (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 ½ and 1 (mi.)     |
| A subsurface mine  | Greater than 5 (mi.)      |
| An (non-karst) unstable area   | Greater than 5 (mi.)      |
| Categorize the risk of this well / site being in a karst geology   | Low                       |
| A 100-year floodplain  | Between ½ and 1 (mi.)     |
| Did the release impact areas not on an exploration, development, production, or storage site   | No                        |

|   |            |
|---|------------|
| <b>Remediation Plan</b>   |            |
| <i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>  |            |
| Requesting a remediation plan approval with this submission   | Yes        |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>  |            |
| Have the lateral and vertical extents of contamination been fully delineated  | Yes        |
| Was this release entirely contained within a lined containment area   | No         |
| <b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)   |            |
| Chloride (EPA 300.0 or SM4500 Cl B)   | 20800      |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)   | 27.6       |
| GRO+DRO (EPA SW-846 Method 8015M)   | 27.6       |
| BTEX (EPA SW-846 Method 8021B or 8260B)   | 0          |
| 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  | 05/07/2024 |
| On what date will (or did) the final sampling or liner inspection occur   | 07/08/2024 |
| On what date will (or was) the remediation complete(d)  | 07/08/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 1490       |
| What is the estimated volume (in cubic yards) that will be reclaimed  | 111        |
| What is the estimated surface area (in square feet) that will be remediated   | 505        |
| What is the estimated volume (in cubic yards) that will be remediated   | 75         |
| <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 371378

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:  |
|   | 5380  |
|   | Action Number:                                    |
|   | 371378  |
|   | Action Type:                                      |
|   | [C-141] Deferral Request C-141 (C-141-v-Deferral) |

**QUESTIONS****Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

|   |  |
|---|--|
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.) | Yes  |
| Which OCD approved facility will be used for <b>off-site</b> disposal                 | HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal     | Not answered.                                  |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state              | Not answered.                                  |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility          | Not answered.                                  |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)         | Not answered.                                  |
| (In Situ) Soil Vapor Extraction   | Not answered.                                  |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)     | Not answered.                                  |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)                    | Not answered.                                  |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)              | Not answered.                                  |
| Ground Water Abatement pursuant to 19.15.30 NMAC                                      | Not answered.                                  |
| OTHER (Non-listed remedial process)   | Not answered.                                  |

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

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Colton Brown<br>Title: Environmental Advisor<br>Email: colton.s.brown@exxonmobil.com<br>Date: 08/07/2024 |
|--|--|

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

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QUESTIONS, Page 5

Action 371378

**QUESTIONS (continued)**

|   |                |   |
|---|----------------|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:         | 5380  |
|   | Action Number: | 371378  |
|   | Action Type:   | [C-141] Deferral Request C-141 (C-141-v-Deferral) |
|   |                |   |

**QUESTIONS****Deferral Requests Only**

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

|  |  |
|--|--|
| Requesting a deferral of the remediation closure due date with the approval of this submission   | Yes  |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes  |
| Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction   | Yes  |
| Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction  | "pipelines, stairs, stair supports, electrical lines, electrical support rails, pipeline supports, power poles, electrical power lines. Removal could cause inaccess to battery, electrical hazards to onsite staff, unstable production equipment, other releases." |
| What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted   | 505  |
| What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted   | 75   |
| Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.  |  |
| Enter the facility ID (F#) on which this deferral should be granted  | PLU 18 TWIN WELLS RANCH WEST [fAPP2126740996]  |
| Enter the well API (30-) on which this deferral should be granted  | Not answered.  |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater   | True   |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.  |  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |  |
| I hereby agree and sign off to the above statement   | Name: Colton Brown<br>Title: Environmental Advisor<br>Email: colton.s.brown@exxonmobil.com<br>Date: 08/07/2024   |

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QUESTIONS, Page 6  
  
Action 371378

QUESTIONS (continued)

|   |                |
|---|----------------|
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|   | 5380           |
|   | Action Number: |
|   | 371378         |
| Action Type:  |                |
| [C-141] Deferral Request C-141 (C-141-v-Deferral)                               |                |

QUESTIONS

| Sampling Event Information  |            |
|---|------------|
| Last sampling notification (C-141N) recorded  | 360687     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 07/08/2024 |
| What was the (estimated) number of samples that were to be gathered                             | 30         |
| What was the sampling surface area in square feet   | 6000       |

| 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 371378

CONDITIONS

|   |   |
|---|---|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380  |
|   | Action Number:<br><br>371378  |
|   | Action Type:<br><br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

CONDITIONS

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| rhamlet    | XTO's deferral requests final remediation for (Incident Number NAPP2405454990) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are limited to the area where active production equipment and pipelines are present and remediation would require a major facility deconstruction, which include sample area (BH01). At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. | 9/5/2024       |