



**CLOSURE REPORT**

Property:

**North Hobbs GSA UT 954-18**

**32.736937° N, 103.187229° W  
Lea County, New Mexico  
NMOCD Incident ID: nAPP2410136920**

September 27, 2024  
Ensolum Project No. 03B1417168

Prepared for:

**Oxy USA, Inc.  
PO Box 4324  
Houston, Texas 77210**

**Attn: Wade Dittrich**

Prepared by:

  
\_\_\_\_\_  
Kelly Lowery  
Project Geologist

  
\_\_\_\_\_  
Beaux Jennings  
Associate Principal



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# ENSOLUM

## CLOSURE REPORT

North Hobbs GSA UT 954-18

32.736937° N, 103.187229° W  
 Lea County, New Mexico  
 NMOCD Incident ID: nAPP2410136920

Ensolum Project No. 03B1417168

### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

<b>Operator:</b>	OXY USA, Inc. (Oxy)
<b>Site Name:</b>	North Hobbs GSA UT 954-18
<b>Location:</b>	32.736937° N, 103.187229° W Lea County, New Mexico
<b>Property:</b>	Private, (Ramirez & Sons)
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On April 3, 2024, Oxy had a minor release of produced water at the Site from a below ground water injection line. Approximately 10 barrels (bbls) of produced water released below the ground surface, with approximately 3 bbls of produced water recovered. Oxy reported the release to the New Mexico EMNRD OCD online portal notification of release (NOR) form on April 10, 2024. The release was assigned Incident Number nAPP2410136920.

The **Topographic Map** depicting the location of the Site is included as **Figure 1**, and the **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

#### 1.2 Project Objective

The primary objective of the closure activities was to reduce chemicals of concern (COC) concentrations in the on-Site soil to be in compliance with the applicable New Mexico EMNRD OCD closure criteria concentrations.

### 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Oxy, the general Site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**, and included as **Figure 4** in **Appendix A**.

- Numerous exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. The two closest water wells were identified as

follows: Well record L-04886 is located within 0.29-miles of the Site and was installed in 1962 to a depth of 100 feet below ground surface (bgs) with groundwater encountered at 45 ft bgs; and well record L-08832 is located within 0.32-miles of the Site and was installed in 1982 to a depth of 120 feet bgs with groundwater encountered at 44 ft bgs.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statute Annotated (NMSA) 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division’s Geographical Information System (GIS), Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is not located within an unstable area, also referred to as high karst potential.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### 3.0 SOIL REMEDIATION ACTIVITIES

On April 3, 2024, Oxy had a release of produced water at the Site from a below ground water injection line. Approximately 10 bbls of produced water released below the ground surface, with approximately 3 bbls of produced water recovered.

From April 10, 2024 through September 6, 2024, excavation, remediation and sampling activities were conducted at the Site.

On August 22 and 23, 2024, Ensolum arrived on-Site to collect 18 composite soil samples from the excavation floor (FS01 through FS15, FS-17, FS-18, and FS-19) at depths ranging from 0.5 to 1.5 feet bgs. In addition, Ensolum collected a total of 8 confirmation delineation step out soil samples (DS01 through DS08) from 8 locations outside of the excavation area at a depth of 0.5 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was necessary.

On September 6, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect 12 composite samples from the excavation floor (FS14, FS16, and FS20 through FS29) at depths ranging from 1 to 1.5 feet bgs, and 5 composite soil samples from the excavation sidewalls (SW01 through SW05) at depths ranging from 0-0.5 to 0-1.5 feet bgs. In addition, Ensolum collected a re-sample of one confirmation delineation step out soil sample (DS04) at a depth of 1-foot bgs. Based on laboratory analytical data, no additional excavation and/or remediation was necessary.

The composite soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil/lube oil range organics (MRO), and chloride in accordance with the New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation area consisted of an "L" shape, with each leg measuring approximately 170 feet long and 10 to 30 feet wide, with a depth ranging from 0.5 to 1.5 feet bgs.

The excavation measured approximately 5,962 square feet in areal extent. A total of 188 cubic yards (cy) of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land Facility located in Hobbs, New Mexico.

**Figure 3** is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the impacted soil and excavation extent with respect to the release (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

### 4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from August 22, 2024, through September 6, 2024, included the collection of a total of 30 composite soil samples from 29 locations from the excavation floor (FS01 through FS29), five composite sidewall soil samples from five locations from the excavation sidewalls (SW01 through SW05), and nine confirmation delineation step out soil samples from eight locations around the excavation (DS01 through DS08) and at depths ranging from 0 to 1.5 feet bgs. Additionally, one composite soil sample was collected from the backfill material prior to use at the Site (Ramirez & Sons Caliche Pit).

The soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico, under proper chain-of-custody procedures.

### 5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX following United States Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO following EPA SW-846 Method 8015M/D, and chloride using SM4500Cl-B.

Laboratory analytical results are summarized in **Table 1** and **Table 2** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

## 6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH-GRO/DRO/MRO, and chloride concentrations or laboratory sample detection limits (SDLs) associated with the final composite excavation soil samples (FS01 through FS29 and SW01 through SW05), the final confirmation delineation soil samples (DS01 through DS08), and the backfill material (Ramirez & Sons Caliche Pit) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the final composite soil samples collected from the excavation area, the final delineation samples, and the backfill material do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the final composite soil samples collected from the excavation area, the final delineation samples, and the backfill material do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated combined TPH-GRO/DRO/MRO concentrations for the final composite soil samples collected from the excavation area, the final delineation soil samples, and the backfill material do not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg.
- Laboratory analytical results indicated chloride concentrations for the final composite soil samples collected from the excavation area, the final delineation soil samples, and the backfill material do not exceed the applicable NMOCD Closure Criteria of 600 mg/kg.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**.

## 7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. A composite soil sample was collected from the backfill material prior to use at the Site. The excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade. Since the release area was on an active facility caliche pit, no reclamation or re-vegetation was required at this time.

## 8.0 FINDINGS AND RECOMMENDATION

- On April 3, 2024, Oxy had a release of produced water at the Site from a below ground water injection line. Approximately 10 bbls of produced water released beneath the ground surface, with approximately 3 bbls of produced water recovered.
- Ensolum's soil sampling program from August 22, 2024, through September 6, 2024, included the collection of a total of 30 composite floor soil samples from 29 locations from the excavation (FS01 through FS29), five composite sidewall soil samples from five locations from the excavation sidewalls (SW01 through SW05), and nine confirmation delineation step out soil samples from eight locations around the excavation (DS01 through DS08) and at depths ranging from 0 to 1.5 feet bgs. Additionally, one composite soil sample was collected from the backfill material prior to use at the Site (Ramirez & Sons Caliche Pit).
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.

- The final excavation area consisted of an “L” shape, with each leg measuring approximately 170 feet long and 10 to 30 feet wide, with a depth ranging from 0 to 1.5 feet bgs.
- Based on laboratory analytical results, the final composite soil samples collected from the excavation floor and sidewalls, the delineation soil samples, and the backfill material did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.

**Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.**

## **9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE**

### **9.1 Standard of Care**

Ensolum’s services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

### **9.2 Limitations**

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions in other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum’s findings and recommendations are based solely upon data available to Ensolum at the time of these services.

### **9.3 Reliance**

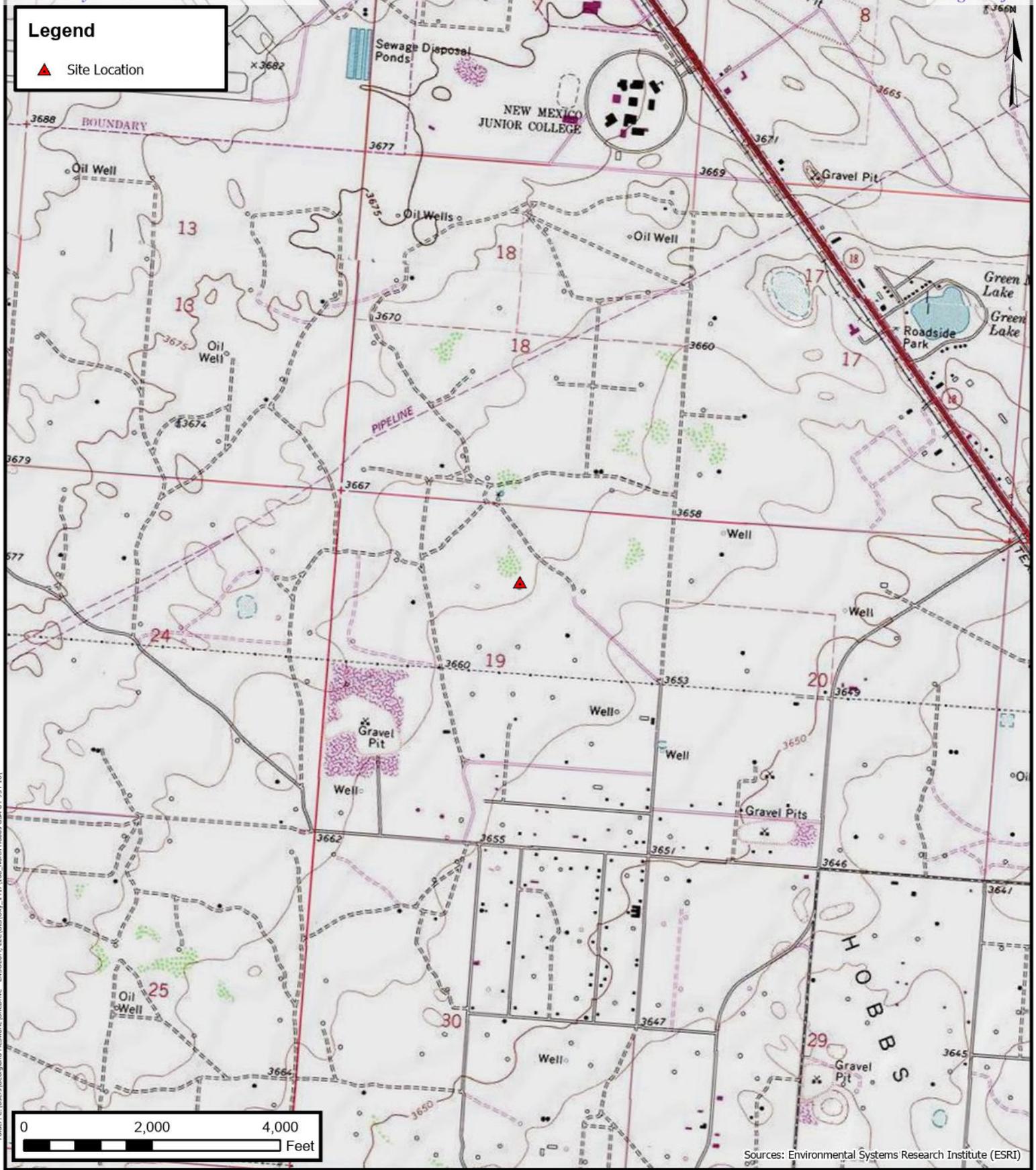
This report has been prepared for the exclusive use of Oxy USA, Inc, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc and Ensolum. Any unauthorized distribution or reuse is at the client’s sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum’s Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum’s liability to the client.



## APPENDIX A

### Figures

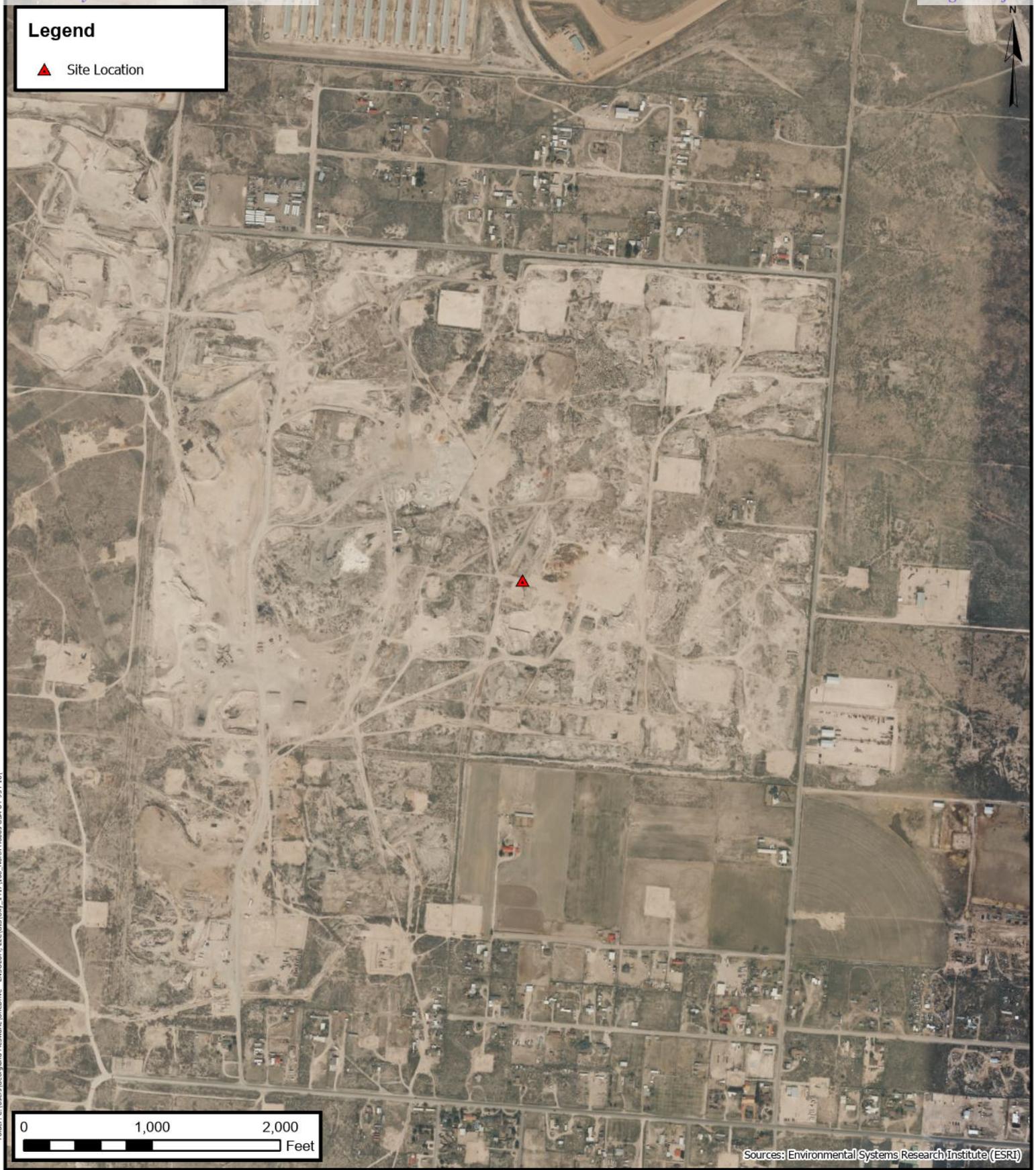
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**Topographic Map**  
 Oxy USA Inc.  
 North Hobbs GSA UT 954-18  
 32.736937° N, 103.187229° W  
 Lea County, New Mexico

PROJECT NUMBER: 03B1417168

**FIGURE**  
 1



Folder: C:\Users\Georgiana McSwane\OneDrive - ENSOLUM, LLC\GIS\Oxy - 1417168 - North Hobbs GSA UT 954-18\



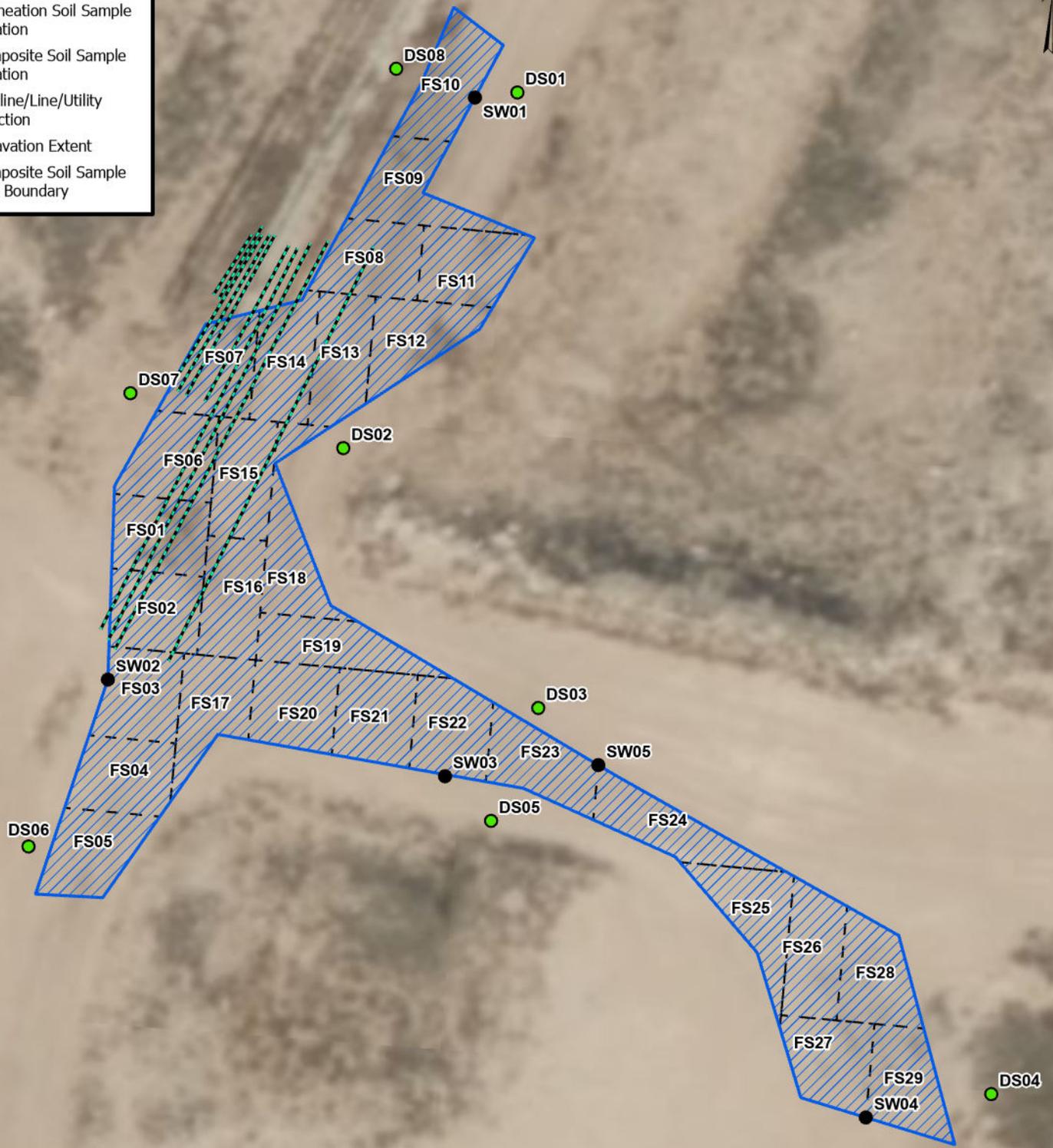
**Site Vicinity Map**  
 Oxy USA Inc.  
 North Hobbs GSA UT 954-18  
 32.736937° N, 103.187229° W  
 Lea County, New Mexico

PROJECT NUMBER: 03B1417168

**FIGURE**  
**2**

### Legend

- Delineation Soil Sample Location
- Composite Soil Sample Location
- Pipeline/Line/Utility selection
- Excavation Extent
- Composite Soil Sample Grid Boundary



Sources: Environmental Systems Research Institute (ESRI)



**Site Map**  
 Oxy USA Inc.  
 North Hobbs GSA UT 954-18  
 32.736937° N, 103.187229° W  
 Lea County, New Mexico

**FIGURE**  
**3**

PROJECT NUMBER: 03B1417168

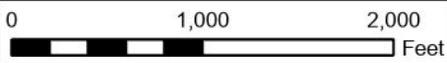


**Legend**

- Composite Soil Sample Location



**Ramirez & Sons Caliche Pit  
Backfill Composite Soil Sample**



Sources: Environmental Systems Research Institute (ESRI)



**Backfill Site Map**

Ramirez & Sons Caliche Pit  
32.736937° N, 103.187229° W  
Lea County, New Mexico

ATTACHMENT

**A**

Folder: C:\Users\Georgiana McSwane\OneDrive - ENSOLUM, LLC\GIS\Oxy - 1417\168 - North Hobbs GSA UT 954-181



## APPENDIX B

### Supporting Documentation

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Form WR-23

STATE ENGINEER OFFICE

500411

SANTA FE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1


(A) Owner of well Norman G. Hallmark  
 Street and Number 701 E. Taylor  
 City Hobbs, State New Mexico  
 Well was drilled under Permit No. L-4886 and is located in the  
S. E. Corner  $\frac{1}{4}$   $\frac{1}{4}$  of Section 19 Twp. 18 S Rge. 38 E  
 (B) Drilling Contractor W. L. Van Noy License No. WD-208  
 Street and Number P. O. Box 74  
 City Oil Center, State New Mexico  
 Drilling was commenced April 23, 1962  
 Drilling was completed April 26, 1962

(Plat of 640 acres)

Elevation at top of casing in feet above sea level \_\_\_\_\_ Total depth of well 100'  
 State whether well is shallow or artesian Shallow Depth to water upon completion 45'

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	45	100	55	Water-sand.
2				
3				
4				
5				

1962 MAY -8 AM 8:57  
 STATE ENGINEER OFFICE  
 SANTA FE, N.M.

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
6		Welded	0	100	100	none	80	100

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor \_\_\_\_\_ License No. \_\_\_\_\_  
 Street and Number \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_  
 Tons of Clay used \_\_\_\_\_ Tons of Roughage used \_\_\_\_\_ Type of roughage \_\_\_\_\_  
 Plugging method used \_\_\_\_\_ Date Plugged \_\_\_\_\_ 19 \_\_\_\_\_  
 Plugging approved by: \_\_\_\_\_  
 \_\_\_\_\_ Basin Supervisor

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

FOR USE OF STATE ENGINEER ONLY  
 DISTRICT II  
 STATE ENGINEER OFFICE  
 Date Received 1962 APR 30 AM 8:22  
 File No. L-4886 Use Dem Location No. 18-38-19-744



Revised June 1972

STATE ENGINEER OFFICE  
WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Ken Romine Owner's Well No. \_\_\_\_\_  
 Street or Post Office Address 4001 Bensing Dr.  
 City and State Hobbs, NM 88240

Well was drilled under Permit No. L- 8832 and is located in the:  
 a.  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  SE of Section 18 Township 18S Range 38E N.M.P.M.  
 b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_  
 c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
 Subdivision, recorded in Lea County.  
 d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in  
 the \_\_\_\_\_ Grant.

(B) Drilling Contractor Larry's drilling License No. WD882  
 Address 2601 W. Bender Hobbs, NM 88240  
 Drilling Began 6-1-82 Completed 6-1-82 Type tools tricone Size of hole 8½ in.  
 Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 120 ft.  
 Completed well is  shallow  artesian. Depth to water upon completion of well 44 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<u>40</u>	<u>120</u>	<u>80</u>	<u>sand and sandstone</u>	<u>27</u>

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>5½</u>	<u>PVC160</u>		<u>0</u>	<u>120</u>	<u>120</u>		<u>100</u>	<u>120</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor \_\_\_\_\_  
 Address \_\_\_\_\_  
 Plugging Method \_\_\_\_\_  
 Date Well Plugged \_\_\_\_\_  
 Plugging approved by: \_\_\_\_\_  
 State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

Date Received June 4, 1982

FOR USE OF STATE ENGINEER ONLY

520297

Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_





## APPENDIX C

### Photographic Documentation

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Project: North Hobbs GSA UT 954-18  
Entity: Oxy USA, Inc  
Project #: 03B1417168



Soil sampling during remediation activities, facing east. (08/22/2024)



Soil sampling during remediation activities, facing northwest. (08/22/2024)

Project: North Hobbs GSA UT 954-18  
Entity: Oxy USA, Inc  
Project #: 03B1417168

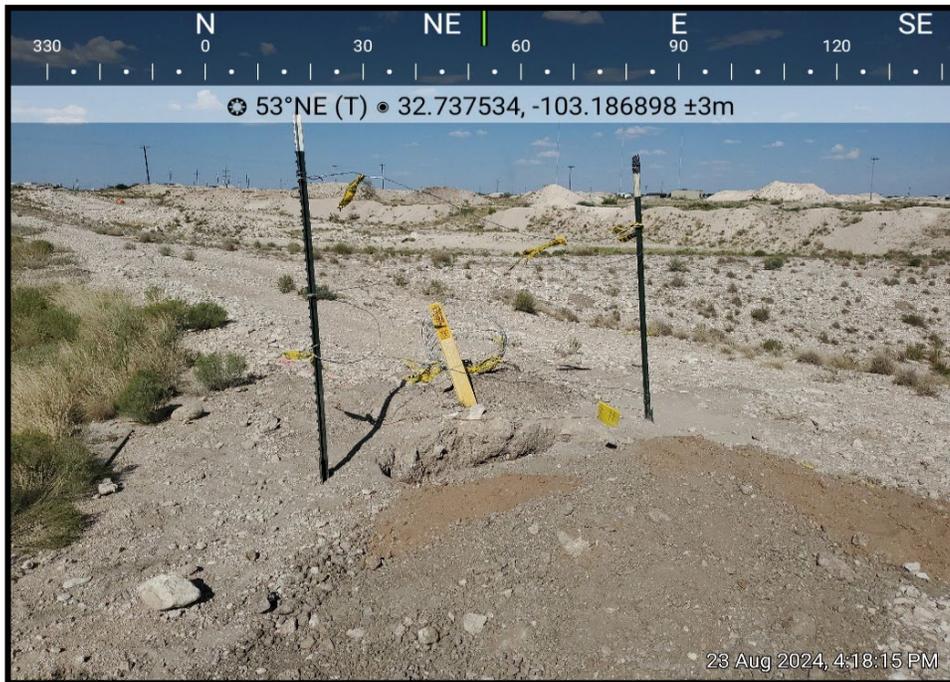


Soil sampling during remediation activities, facing west. (08/23/2024)



Soil sampling during remediation activities, facing north. (08/23/2024)

Project: North Hobbs GSA UT 954-18  
Entity: Oxy USA, Inc  
Project #: 03B1417168



Soil sampling during remediation activities, facing northeast. (08/23/2024)



Soil sampling during remediation activities, facing northeast. (08/23/2024)

Project: North Hobbs GSA UT 954-18  
Entity: Oxy USA, Inc  
Project #: 03B1417168

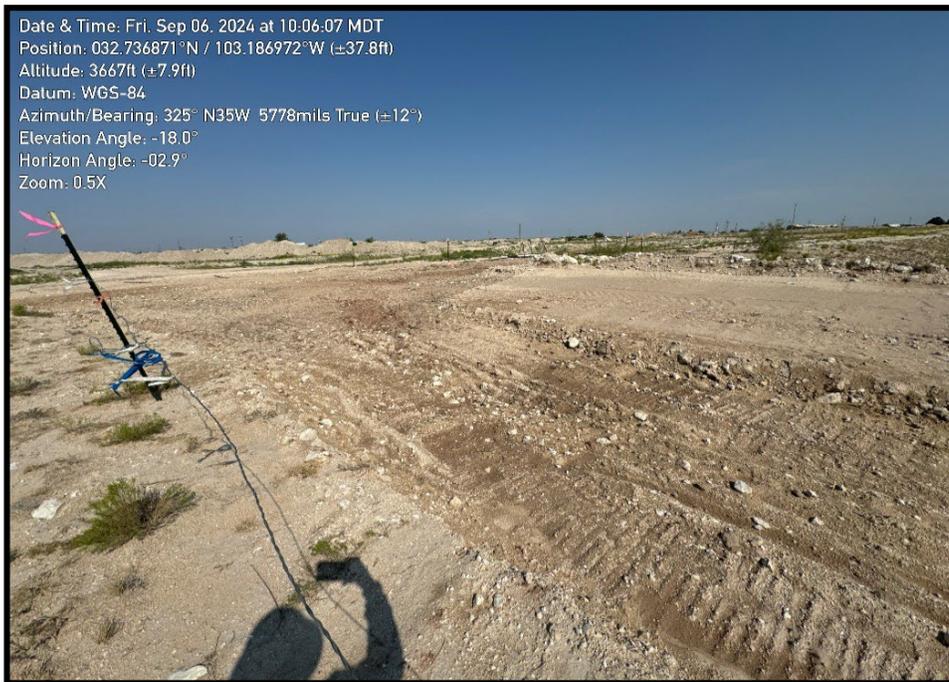


View of excavation area during remediation activities, facing northeast. (09/06/2024)



View of excavation area during remediation activities, facing southwest. (09/06/2024)

Project: North Hobbs GSA UT 954-18  
Entity: Oxy USA, Inc  
Project #: 03B1417168



Date & Time: Fri, Sep 06, 2024 at 10:06:07 MDT  
Position: 032.736871°N / 103.186972°W (±37.8ft)  
Altitude: 3667ft (±7.9ft)  
Datum: WGS-84  
Azimuth/Bearing: 325° N35W 5778mils True (±12°)  
Elevation Angle: -18.0°  
Horizon Angle: -02.9°  
Zoom: 0.5X

View of excavation area during remediation activities, facing northwest. (09/06/2024)



Date & Time: Fri, Sep 06, 2024 at 10:06:25 MDT  
Position: 032.736790°N / 103.186893°W (±15.0ft)  
Altitude: 3667ft (±11.8ft)  
Datum: WGS-84  
Azimuth/Bearing: 101° S79E 1796mils True (±11°)  
Elevation Angle: -15.2°  
Horizon Angle: +00.7°  
Zoom: 0.5X

View of excavation area during remediation activities, facing southeast. (09/06/2024)

Project: North Hobbs GSA UT 954-18  
Entity: Oxy USA, Inc  
Project #: 03B1417168



View of final backfilled excavation, looking southwest. (09/19/2024)



View of final backfilled excavation, looking northeast. (09/19/2024)



## APPENDIX D

Table

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 North Hobbs GSA UT 954-18  
 Oxy USA, Inc.  
 Lea County, New Mexico  
 Ensolium Project No. 03B1417168

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)</b>			<b>10</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Composite Floor Soil Sample Analytical Results</b>												
FS01	08/22/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>400</b>
FS02	08/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>416</b>
FS03	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>448</b>
FS04	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
FS05	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>192</b>
FS06	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>512</b>
FS07	08/23/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>304</b>
FS08	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>128</b>
FS09	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>208</b>
FS10	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>160</b>
FS11	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>416</b>
FS12	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>336</b>
FS13	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>400</b>
FS14	08/23/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>624</b>
	09/06/2024	1.5	NS					NS				
FS15	08/23/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>368</b>
FS16	09/06/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
FS17	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>112</b>
FS18	08/23/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>96.0</b>
FS19	08/23/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>416</b>
FS20	09/06/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS21	09/06/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
FS22	09/06/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>64.0</b>
FS23	09/06/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS24	09/06/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
FS25	09/06/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS26	09/06/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
FS27	09/06/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
FS28	09/06/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
FS29	09/06/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 North Hobbs GSA UT 954-18  
 Oxy USA, Inc.  
 Lea County, New Mexico  
 Ensolium Project No. 03B1417168

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)</b>			<b>10</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Composite Sidewall Soil Sample Analytical Results</b>												
SW01	09/06/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>16.0</b>
SW02	09/06/2024	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>192</b>
SW03	09/06/2024	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SW04	09/06/2024	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>32.0</b>
SW05	09/06/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
<b>Confirmation Delineation Step Out Soil Sample Analytical Results</b>												
DS01	08/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS02	08/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS03	08/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS04	08/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>170</b>	<b>177</b>	<b>347</b>	<b>80.0</b>
	09/06/2024	1.0	NS			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	NS
DS05	08/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS06	08/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS07	08/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<b>11.9</b>	<b>11.9</b>	<b>16.0</b>
DS08	08/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)

Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



**TABLE 2  
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS**  
Ramirez & Sons Caliche Pit  
Oxy USA, Inc.  
Lea County, New Mexico  
Ensolum Project No. NA

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
<b>New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)</b>			10	NE	NE	NE	50	NE	NE	NE	100	600
<b>Composite Background Soil Sample Analytical Result</b>												
Ramirez & Sons Caliche Pit	09/19/2024	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>96.0</b>

bgs: below ground surface  
 mg/kg: milligrams per kilogram  
 NA: Not Applicable  
 NE: Not Established  
 BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes  
 GRO: Gasoline Range Organics  
 DRO: Diesel Range Organics  
 MRO: Motor Oil/Lube Oil Range Organics  
 TPH: Total Petroleum Hydrocarbon



## APPENDIX E

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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

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August 28, 2024

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

RE: NORTH HOBBS GSA UT 954-18

Enclosed are the results of analyses for samples received by the laboratory on 08/22/24 16:29.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 01 1.5' (H245133-01)**

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/23/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 02 0.5' (H245133-02)**

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/23/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Beaux Jennings				P.O. #:				BTEX 8021B TPH 8015M Chloride 4500 Hold																			
Address: 601 N. Marienfeld St. STE 400				Company: OXY USA																							
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich																							
Phone #: (210)219-8858 Email: bjennings@ensolum.com				Address:																							
Project #: 0381417168 Project Owner:				City:																							
Project Name: North Hobbs CSA UT 954-18				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: Kaoru Shimada				Email:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX														PRESERV.	SAMPLING								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL:	DATE	TIME														
H205133	F501	1.5'	A			X				X		8-22-24	1633	X	X	X											
2	F502	2.5'	C			X				X		8-22-24	1003	X	X	X											
N F F SK 8-22-24																											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Kaoru Shimada	Date: 8-22-24	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: bjennings@ensolum.com, klowery@ensolum.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 28.2 Corrected Temp. °C: 2.22	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) AD	REMARKS: Paykey/AFE/NonAFE:
			Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition	
			Thermometer ID #11140 Correction Factor -0.6°C	

FORM-006 R 3.2 10/07/21

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



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

---

August 28, 2024

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

RE: NORTH HOBBS GSA UT 954-18

Enclosed are the results of analyses for samples received by the laboratory on 08/22/24 16:29.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: DS 01 0.5 (H245134-01)**

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	<16.0	16.0	08/23/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: DS 02 0.5 (H245134-02)**

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	08/23/2024	ND	2.21	111	2.00	2.32	
Toluene*	<0.050	0.050	08/23/2024	ND	2.12	106	2.00	0.258	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.24	112	2.00	0.834	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.88	115	6.00	0.849	
Total BTEX	<0.300	0.300	08/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: DS 03 0.5 (H245134-03)**

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	08/23/2024	ND	2.21	111	2.00	2.32		
Toluene*	<0.050	0.050	08/23/2024	ND	2.12	106	2.00	0.258		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.24	112	2.00	0.834		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.88	115	6.00	0.849		
Total BTEX	<0.300	0.300	08/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/23/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91		
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22		
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND						

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: DS 04 0.5 (H245134-04)**

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	08/23/2024	ND	2.21	111	2.00	2.32		
Toluene*	<0.050	0.050	08/23/2024	ND	2.12	106	2.00	0.258		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.24	112	2.00	0.834		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.88	115	6.00	0.849		
Total BTEX	<0.300	0.300	08/23/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>80.0</b>	16.0	08/23/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91		
<b>DRO &gt;C10-C28*</b>	<b>170</b>	10.0	08/23/2024	ND	206	103	200	4.22		
<b>EXT DRO &gt;C28-C36</b>	<b>177</b>	10.0	08/23/2024	ND						

Surrogate: 1-Chlorooctane 63.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: DS 05 0.5 (H245134-05)**

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	08/24/2024	ND	2.21	111	2.00	2.32		
Toluene*	<0.050	0.050	08/24/2024	ND	2.12	106	2.00	0.258		
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.24	112	2.00	0.834		
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.88	115	6.00	0.849		
Total BTEX	<0.300	0.300	08/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/23/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91		
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22		
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND						

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: DS 06 0.5 (H245134-06)**

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	08/24/2024	ND	2.21	111	2.00	2.32		
Toluene*	<0.050	0.050	08/24/2024	ND	2.12	106	2.00	0.258		
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.24	112	2.00	0.834		
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.88	115	6.00	0.849		
Total BTEX	<0.300	0.300	08/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/23/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91		
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22		
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND						

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: DS 07 0.5 (H245134-07)**

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	08/24/2024	ND	2.21	111	2.00	2.32	
Toluene*	<0.050	0.050	08/24/2024	ND	2.12	106	2.00	0.258	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.24	112	2.00	0.834	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.88	115	6.00	0.849	
Total BTEX	<0.300	0.300	08/24/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/23/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	225	112	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	232	116	200	2.31	
EXT DRO >C28-C36	11.9	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/22/2024	Sampling Date:	08/22/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: DS 08 0.5 (H245134-08)**

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	08/24/2024	ND	2.21	111	2.00	2.32		
Toluene*	<0.050	0.050	08/24/2024	ND	2.12	106	2.00	0.258		
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.24	112	2.00	0.834		
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.88	115	6.00	0.849		
Total BTEX	<0.300	0.300	08/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/23/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	225	112	200	1.73		
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	232	116	200	2.31		
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND						

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>								
Project Manager: Beaux Jennings				P.O. #:				BTEX 8021B TPH 8015M Chloride 4500 Hold								
Address: 601 N. Mariefeld St. STE 400				Company: OXY USA												
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich												
Phone #: (210)219-8858 Email: bjennings@ensolum.com				Address:												
Project #: 03B1412169 Project Owner:				City:												
Project Name: North Hobbs GSA UT 954-18				State: Zip:												
Project Location:				Phone #:												
Sampler Name: Kaoru Shimada				Email:												
FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	Sample Depth (feet)	(GRAB OR (COMP. # CONTAINERS	MATRIX								PRESERV.	SAMPLING		DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL		OTHER:			
H245138	DS01	0.5	1		X					X		8-22-24	1445	X	X	X
2	DS02	1	1		X					X		1443	1443	X	X	X
3	DS03	1	1		X					X		1447	1447	X	X	X
4	DS04	1	1		X					X		1449	1449	X	X	X
5	DS05	1	1		X					X		1509	1509	X	X	X
6	DS06	1	1		X					X		1507	1507	X	X	X
7	DS07	1	1		X					X		1504	1504	X	X	X
8	DS08	0.5	1		X					X		8-22-24	1511	X	X	X
	N F	E										August				22, 2024

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Relinquished By: Kaoru Shimada	Date: 8-22-24	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: bjennings@ensolum.com, klowery@ensolum.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			REMARKS: Paykey/AFE/NonAFE:	
Observed Temp. °C: 2.82	Corrected Temp. °C: 2.22	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) AP	
Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition			Thermometer ID #113 1140	
Correction Factor -0.5°C			Correction Factor -0.62	
Rush <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C			AP 8-22-24	

FORM-006 R 3.2 10/07/21

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

1/1



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

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August 29, 2024

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

RE: NORTH HOBBS GSA UT 954-18

Enclosed are the results of analyses for samples received by the laboratory on 08/23/24 16:36.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 03 0.5 (H245163-01)**

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	08/27/2024	ND	2.07	103	2.00	0.528	
Toluene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	0.839	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.07	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.18	103	6.00	1.06	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	448	16.0	08/27/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	211	106	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	212	106	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 04 0.5 (H245163-02)**

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	08/27/2024	ND	2.07	103	2.00	0.528	
Toluene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	0.839	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.07	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.18	103	6.00	1.06	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/27/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	211	106	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	212	106	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 05 0.5 (H245163-03)**

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	08/27/2024	ND	2.07	103	2.00	0.528	
Toluene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	0.839	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.07	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.18	103	6.00	1.06	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/27/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	211	106	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	212	106	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 06 0.5 (H245163-04)**

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	08/27/2024	ND	2.07	103	2.00	0.528	
Toluene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	0.839	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.07	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.18	103	6.00	1.06	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/27/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	211	106	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	212	106	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 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, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 07 1 (H245163-05)**

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	08/27/2024	ND	2.07	103	2.00	0.528	
Toluene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	0.839	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.07	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.18	103	6.00	1.06	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/27/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	211	106	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	212	106	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 08 0.5 (H245163-06)**

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	08/27/2024	ND	2.07	103	2.00	0.528		
Toluene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	0.839		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.07	104	2.00	1.06		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.18	103	6.00	1.06		
Total BTEX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/27/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232		
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71		
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND						

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 09 0.5 (H245163-07)**

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	08/27/2024	ND	2.07	103	2.00	0.528		
Toluene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	0.839		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.07	104	2.00	1.06		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.18	103	6.00	1.06		
Total BTEX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/27/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232		
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71		
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND						

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 10 0.5 (H245163-08)**

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	08/27/2024	ND	2.07	103	2.00	0.528	
Toluene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	0.839	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.07	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.18	103	6.00	1.06	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/27/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232	
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 11 0.5 (H245163-09)**

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	08/27/2024	ND	2.07	103	2.00	0.528	
Toluene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	0.839	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.07	104	2.00	1.06	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.18	103	6.00	1.06	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>416</b>	16.0	08/27/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232	
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 12 0.5 (H245163-10)**

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	08/26/2024	ND	2.06	103	2.00	9.68	QM-07
Toluene*	<0.050	0.050	08/26/2024	ND	2.15	108	2.00	9.18	
Ethylbenzene*	<0.050	0.050	08/26/2024	ND	2.20	110	2.00	9.49	QM-07
Total Xylenes*	<0.150	0.150	08/26/2024	ND	6.62	110	6.00	8.87	QM-07
Total BTEX	<0.300	0.300	08/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/27/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232	
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 13 0.5 (H245163-11)**

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	08/26/2024	ND	2.06	103	2.00	9.68		
Toluene*	<0.050	0.050	08/26/2024	ND	2.15	108	2.00	9.18		
Ethylbenzene*	<0.050	0.050	08/26/2024	ND	2.20	110	2.00	9.49		
Total Xylenes*	<0.150	0.150	08/26/2024	ND	6.62	110	6.00	8.87		
Total BTEX	<0.300	0.300	08/26/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	08/27/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232		
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71		
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND						

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 14 1 (H245163-12)**

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	08/26/2024	ND	2.06	103	2.00	9.68		
Toluene*	<0.050	0.050	08/26/2024	ND	2.15	108	2.00	9.18		
Ethylbenzene*	<0.050	0.050	08/26/2024	ND	2.20	110	2.00	9.49		
Total Xylenes*	<0.150	0.150	08/26/2024	ND	6.62	110	6.00	8.87		
Total BTEX	<0.300	0.300	08/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	08/27/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232		
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71		
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND						

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 15 1 (H245163-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2024	ND	2.06	103	2.00	9.68	
Toluene*	<0.050	0.050	08/26/2024	ND	2.15	108	2.00	9.18	
Ethylbenzene*	<0.050	0.050	08/26/2024	ND	2.20	110	2.00	9.49	
Total Xylenes*	<0.150	0.150	08/26/2024	ND	6.62	110	6.00	8.87	
Total BTEX	<0.300	0.300	08/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/27/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232	
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND					

Surrogate: 1-Chlorooctane 64.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 17 0.5 (H245163-14)**

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	08/26/2024	ND	2.06	103	2.00	9.68		
Toluene*	<0.050	0.050	08/26/2024	ND	2.15	108	2.00	9.18		
Ethylbenzene*	<0.050	0.050	08/26/2024	ND	2.20	110	2.00	9.49		
Total Xylenes*	<0.150	0.150	08/26/2024	ND	6.62	110	6.00	8.87		
Total BTEX	<0.300	0.300	08/26/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/27/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232		
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71		
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND						

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 18 0.5 (H245163-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2024	ND	2.06	103	2.00	9.68		
Toluene*	<0.050	0.050	08/26/2024	ND	2.15	108	2.00	9.18		
Ethylbenzene*	<0.050	0.050	08/26/2024	ND	2.20	110	2.00	9.49		
Total Xylenes*	<0.150	0.150	08/26/2024	ND	6.62	110	6.00	8.87		
Total BTEX	<0.300	0.300	08/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/27/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232		
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71		
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND						

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/23/2024	Sampling Date:	08/23/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Alyssa Parras
Project Location:	OXY		

**Sample ID: FS 19 1 (H245163-16)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2024	ND	2.06	103	2.00	9.68		
Toluene*	<0.050	0.050	08/27/2024	ND	2.15	108	2.00	9.18		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.20	110	2.00	9.49		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.62	110	6.00	8.87		
Total BTEX	<0.300	0.300	08/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/27/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/26/2024	ND	224	112	200	0.232		
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	213	106	200	1.71		
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND						

Surrogate: 1-Chlorooctane 62.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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\*=Accredited Analyte

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>							
Project Manager: Beaux Jennings				P.O. #:											
Address: 601 N. Marienfeld St. STE 400				Company: OXY USA											
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich											
Phone #: (210)219-8858 Email:bjennings@ensolum.com				Address:											
Project #: 023141718 Project Owner:				City:											
Project Name: North Hobbs GSA VT 954-18				State: Zip:											
Project Location:				Phone #:											
Sampler Name: Kaoru Shimada				Email:											
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.	SAMPLING		BTEX 8021B	TPH 8015M	Chloride 4500	Hold
				GROUNDWATER	WASTEWATER	SOIL	OIL SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:				
H24503	E503	0.5	1		X				X	10-23-24	1010	X	X	X	
1	E504	0.5	1		X				X	1	746	1	1	1	
2	E505	0.5	1							1	1016				
3	E506	0.5	1							1	703				
4	E507	0.5	1							1	<del>746</del>				
5	E508	0.5	1							1	<del>746</del>				
6	E509	1	1							1	847				
7	E510	1	1							1	850				
8	E511	0.5	1							1	854	X	X	X	
9	E512	0.5	1		X				X	10-23-24	900	X	X	X	

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Relinquished By: Kaoru Shimada		Date: 8-23-24	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 10:30	Received By:	All Results are emailed. Please provide Email address: bjennings@ensolum.com, klowery@ensolum.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 29.6 Corrected Temp. °C: 2.3i	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	REMARKS: Paykey/AFE/NonAFE:	
			CHECKED BY: (Initials) AD	Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition	
				Rush <input type="checkbox"/> Cool Intact <input checked="" type="checkbox"/> Observed Temp. °C	
				Thermometer ID #115-140 Correction Factor -0.6°C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	

FORM-006 R 3.2 10/07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Beaux Jennings
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: (210)219-8858 Email: bjennings@ensolum.com
Project #: 03B147168 Project Owner:
Project Name: North Hobbs GSA UT 954-18
Project Location:
Sampler Name: Kaoru Shimada
BILL TO ANALYSIS REQUEST
Lab I.D. Sample I.D. Sample Depth (feet) MATRIX PRESERV. SAMPLING
11 ES13 0.5 C1 X X X
17 ES14 1 C1 X X X
13 ES15 1 C1 X X X
AD 148-23-24 ES16 SK
14 ES17 0.5 C1 X X X
15 ES18 0.5 C1 X X X
16 ES19 1 C1 X X X
N F E SK August 22, 2024
Relinquished By: Kaoru Shimada Date: 8-23-24 Received By: AD Date: 8-23-24
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C 2.9°C Corrected Temp. °C 2.3°C
Sample Condition Cool Intact [X] Yes [ ] No [ ] No
CHECKED BY: (Initials) ADP
Turnaround Time: Standard [X] Bacteria (only) Sample Condition
Thermometer ID #118 #140 Correction Factor -0.5°C

FORM-006 R 3.2 10/07/21

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September 11, 2024

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

RE: NORTH HOBBS GSA UT 954-18

Enclosed are the results of analyses for samples received by the laboratory on 09/06/24 13:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 14 1.5' (H245408-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	09/09/2024	ND	400	100	400	11.3	

**Sample ID: FS 16 1' (H245408-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 16 1' (H245408-02)**

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctadecane	96.9 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 20 1' (H245408-03)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 118 % 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



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**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 21 1' (H245408-04)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 22 1' (H245408-05)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 23 1' (H245408-06)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 24 1.5' (H245408-07)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 25 1.5' (H245408-08)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 26 1' (H245408-09)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 27 1' (H245408-10)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	200	100	200	4.40	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	195	97.6	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 28 1' (H245408-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	205	103	200	2.34	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	207	103	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: FS 29 1' (H245408-12)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	205	103	200	2.34	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	207	103	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: DS 04 1' (H245408-13)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	205	103	200	2.34	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	207	103	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>101 %</i>	<i>48.2-134</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>115 %</i>	<i>49.1-148</i>							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 01 0-1.5' (H245408-14)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	205	103	200	2.34	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	207	103	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 02 0-0.5' (H245408-15)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	205	103	200	2.34	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	207	103	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 03 0-1' (H245408-16)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.98	99.1	2.00	5.72	
Toluene*	<0.050	0.050	09/09/2024	ND	2.22	111	2.00	5.89	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	2.30	115	2.00	3.10	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	6.97	116	6.00	0.0744	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	205	103	200	2.34	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	207	103	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 04 0-1' (H245408-17)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2024	ND	1.74	86.8	2.00	2.33	QR-03	
Toluene*	<0.050	0.050	09/09/2024	ND	1.68	84.1	2.00	3.19	QM-07, QR-03	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.69	84.4	2.00	3.41	QM-07, QR-03	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	5.04	84.0	6.00	3.49	QM-07, QR-03	
Total BTEX	<0.300	0.300	09/09/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/09/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	205	103	200	2.34		
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	207	103	200	2.29		
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/06/2024	Sampling Date:	09/06/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GSA UT 954-18	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY- LEA CO NM		

**Sample ID: SW 05 0-1.5' (H245408-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.74	86.8	2.00	2.33	
Toluene*	<0.050	0.050	09/09/2024	ND	1.68	84.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.69	84.4	2.00	3.41	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	5.04	84.0	6.00	3.49	
Total BTEX	<0.300	0.300	09/09/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/09/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2024	ND	205	103	200	2.34	
DRO >C10-C28*	<10.0	10.0	09/09/2024	ND	207	103	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	09/09/2024	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

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

<b>Company Name:</b> Ensolum, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
<b>Project Manager:</b> Beaux Jennings / Kelly Lowery		<b>P.O. #:</b>													
<b>Address:</b> 601 N. Marienfeld St. STE 400		<b>Company:</b> Oxy USA, Inc.													
<b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701		<b>Attn:</b> Wade Dittrich													
<b>Phone #:</b> 210-219-8858 <b>Fax #:</b>		<b>Address:</b>													
<b>Project #:</b> 03B1417168 <b>Project Owner:</b>		<b>City:</b>													
<b>Project Name:</b> North Hobbs GSA UT 954-18		<b>State:</b> <b>Zip:</b>													
<b>Project Location:</b> Lea County		<b>Phone #:</b> 575-390-2828													
<b>Sampler Name:</b> Tabitha Guadian		<b>Fax #:</b>													

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	TPH 8015 M	BTEX 8021 B	Chlorides 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
H245408	1 FS14	1.5'	C	1			X					X			9/6/24	0930			
	2 FS16	1														0932	X	X	X
	3 FS20	1														0934	X	X	X
	4 FS21	1														0936	X	X	X
	5 FS22	1														0938	X	X	X
	6 FS23	1														0940	X	X	X
	7 FS24	1.5'														0942	X	X	X
	8 FS25	1.5														0944	X	X	X
	9 FS26	1														0946	X	X	X
	10 FS27	1														0948	X	X	X

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<b>Relinquished By:</b> <i>Jair</i>	<b>Date:</b> 9/6/24 <b>Time:</b> 1:305	<b>Received By:</b> <i>Keenara Oldafsky</i>	<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Phone #:</b>
<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>	<b>REMARKS:</b>
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	<b>Observed Temp. °C</b> 1.0 <b>Corrected Temp. °C</b> 0.4	<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Turnaround Time:</b> #140 Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> <b>Thermometer ID</b> #113 <b>Correction Factor</b> -0.5°C <b>Checked By:</b> (Initials) <i>Y.</i>
			<b>Bacteria (only) Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Ensolium, LLC), project details (Project # 0381417168, Project Name: North Hobbs GSA UT 954-18), and a table for sample analysis with columns for Lab I.D., Sample I.D., Sample Depth, Matrix, and Sampling.

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Form for Relinquished/Received By, Date, Time, Verbal Result, and Turnaround Time information.

† 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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September 25, 2024

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

RE: RAMIREZ & SONS CALICHE PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/20/24 13:03.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	RAMIREZ & SONS CALICHE PIT	Sampling Condition:	Cool & Intact
Project Number:	03B1417168	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: RAMIREZ & SONS CALICHE PIT (H245739-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	1.94	96.9	2.00	9.04	
Toluene*	<0.050	0.050	09/23/2024	ND	1.92	95.9	2.00	8.44	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	1.99	99.4	2.00	7.64	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	5.95	99.2	6.00	7.49	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/23/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	220	110	200	2.49	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 388006

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388006
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2410136920
Incident Name	NAPP2410136920 NORTH HOBBS GSA UT 954-18 @ 30-025-07369
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-07369] NORTH HOBBS G/SA UNIT #311

**Location of Release Source**

Please answer all the questions in this group.

Site Name	NORTH HOBBS GSA UT 954-18
Date Release Discovered	04/03/2024
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Injection   Produced Water   Released: 10 BBL   Recovered: 3 BBL   Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 388006

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388006
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</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.*

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

*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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 09/27/2024
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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 388006

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388006
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between ½ and 1 (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 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	624
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	347
GRO+DRO (EPA SW-846 Method 8015M)	170
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	04/03/2024
On what date will (or did) the final sampling or liner inspection occur	09/06/2024
On what date will (or was) the remediation complete(d)	09/06/2024
What is the estimated surface area (in square feet) that will be reclaimed	5962
What is the estimated volume (in cubic yards) that will be reclaimed	188
What is the estimated surface area (in square feet) that will be remediated	5962
What is the estimated volume (in cubic yards) that will be remediated	188

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

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

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QUESTIONS, Page 4

Action 388006

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388006
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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	LEA LAND LANDFILL [fEEM0112342028]
<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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 09/27/2024
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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 388006

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388006
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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Action 388006

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388006
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>380170</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>09/06/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>13</b>
What was the sampling surface area in square feet	<b>2600</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5962
What was the total volume (cubic yards) remediated	188
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	5962
What was the total volume (in cubic yards) reclaimed	188
Summarize any additional remediation activities not included by answers (above)	NA

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 09/27/2024
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Action 388006

**QUESTIONS (continued)**

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	Action Number: 388006
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 388006

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 388006
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	None	2/5/2025