



CLOSURE REPORT

Property:

Llama Mall 26 35 Federal Com #311H

**Unit D, S26, T22S, R32E
32.3681° N, 103.6505° W
Lea County, New Mexico
NMOCD Incident ID: nAPP2401247161**

October 3, 2024

Ensolum Project No. 03B1417139

Prepared for:

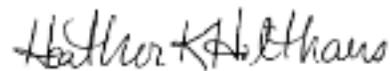
**Oxy USA, Inc.
PO Box 4324
Houston, Texas 77210**

Attn: Wade Dittrich

Prepared by:



Kelly Lowery
Project Geologist



Heather Holthaus
Senior Project Manager



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ENSOLUM

CLOSURE REPORT

Llama Mall 26 35 Federal Com #311H

**Unit D, S26, T22S, R32E
32.3681° N, 103.6505° W
Lea County, New Mexico
NMOCD Incident ID: nAPP2401247161**

Ensolum Project No. 03B1417139

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	OXY USA, Inc. (Oxy)
Site Name:	Llama Mall 26 35 Federal Com #311H
Location:	Unit D, Section 26, Township 22 South, Range 32 East 32.3681° N, 103.6505° W Lea County, New Mexico
Property:	Federal land managed by the Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On January 5, 2024, Oxy had a release of produced water at the Site due to a water transfer flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 45 barrels (bbls) of produced water were released onto the ground surface, with approximately 15 bbls recovered. Oxy reported the release to the New Mexico EMNRD OCD via email on January 6, 2024, and subsequently to the New Mexico EMNRD OCD online portal notification of release (NOR) form on January 12, 2024. The release was assigned Incident Number nAPP2401247161.

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**.



- No exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. However, there is one well record reported within 0.61-miles of the Site (C-02302) that was permitted in 1993 to a depth of 650 feet below ground surface (bgs) and was listed as a dry hole. In addition, two USGS groundwater well records were identified within 1.5-miles of the Site (322314103383601 and 322314103384301) with recorded depths to groundwater at 370.4 feet bgs and 367.8 feet bgs in 1972.
- 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 Cl 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 January 5, 2024, Oxy had a release of produced water at the Site due to a water transfer flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 45 bbls of produced water released onto the ground surface, with approximately 15 bbls recovered.

From January 5 through August 7, 2024, delineation and excavation activities were conducted at the Site.

On April 29, 2024, Ensolum arrived on-Site to collect 48 composite soil samples from the excavation floor (FS-01 through FS-48) and six composite soil samples from the excavation sidewalls (SW-01 through SW-06). The excavation floor samples were collected at a depth of 2 feet bgs and the excavation sidewall samples were collected at a depth of 0-2 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was necessary.

On July 23, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect 30 composite soil samples from the excavation floor (FS-01 through FS-06, FS-08, FS-10, FS-11, FS-14, FS-16, FS-17, FS-19, FS-21, FS-23, FS-25 through FS-28, FS-34 through FS-38, FS-40, FS-41, FS-43, FS-45, FS-46, and FS-47) at a depth of 4 feet bgs, and five composite soil samples from the excavation sidewalls (SW-02 through SW-06) at a depth of 2-4 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was necessary.

On August 7, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect two composite soil re-samples from the excavation floor (FS-17 and FS-42) at a depth of 4 feet bgs, and three composite soil samples from two locations on the excavation sidewalls (SW-01 and SW-02) at depths ranging from 0-2 and 2-4 feet bgs. Based on laboratory analytical data, no additional excavation activities or remediation activities were 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 measured approximately 255 feet long and 35 feet to 65 feet wide at the maximum extents, with a depth ranging from 2-4 feet bgs.

The excavation measured approximately 9,647 square feet in areal extent. A total of 1,171 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. After completion of confirmation sampling, the excavation was secured with fencing. Backfill of excavation was completed utilizing material purchased locally from the Mills Ranch Pit and recontoured to match pre-existing conditions. A BLM-approved seed mixture was sown into the surface area of the backfill for re-vegetation.

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 April 29, 2024 through August 7, 2024 included the collection of a total of 80 composite soil samples from 40 locations from the excavation floor (FS-01 through FS-48) and 14 composite soil samples from six locations from the excavation sidewalls (SW-01 through SW-06) for laboratory analysis. Additionally, one composite soil sample was collected from the backfill material prior to use at the Site (Mills Ranch 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** 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 (FS-01 through FS-48 and SW-01 through SW-06) for soils left in place at the Site and the backfill material (Mills Ranch Pit) to the NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the final composite soil samples collected from the excavation area 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 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 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 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

The release occurred off pad and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area: Soil in the vicinity of the release include: predominately fine sand and sandy clay loam;

- The backfilled areas were seeded utilizing a weed-free seed mix designed by the BLM to meet reclamation standards for this region, which was: Pecos District BLM Seed Mix for Sandy Plains CP-2 Ecological Site;
- The seed mixture was distributed with one of the following methods: push broadcaster seed spreader / tractor operated broadcast seed spreader / drill seeding / other means;
- Application of the seed mixture was at a coverage of either 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method, or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method, whichever was more applicable;
- Erosion control management will potentially include:
 - The placement of waddles in areas with a propensity for high run off rates;

- Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
- Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation utilized locally purchased material from the Mills Ranch Pit and recontoured to pre-existing conditions;
- The backfill material was sampled to comply with the above reclamation requirement. The laboratory analytical results are summarized in **Table 3** in **Appendix D**.
- Seeding was completed during the month of September 2024, during the month(s) when temperatures and precipitation is/are most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost.
- Annual inspections (at a minimum), will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the BLM-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion.

8.0 FINDINGS AND RECOMMENDATION

- On January 5, 2024, Oxy had a release of produced water at the Site due to a water transfer flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 45 bbls of produced water released onto the ground surface, with approximately 15 bbls recovered.
- Ensolum's soil sampling program from April 29, 2024 through August 7, 2024 included the collection of a total of 80 composite soil samples from 48 soil sample locations from the excavation floor (FS-01 through FS-48), and 13 sidewall soil samples from six soil sample locations (SW-01 through SW-06) for laboratory analysis. The composite floor samples were collected at depths ranging from 2 to 4 feet bgs and the sidewall samples were collected at depths ranging from 0-2 and 2-4 feet bgs. Additionally, one composite soil sample was collected from the backfill material prior to use at the Site (Mills Ranch 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 measured approximately 255 feet long and 35 feet to 65 feet wide at the maximum extents, with depths ranging from 2 to 4 feet bgs.
- Based on laboratory analytical results, the final composite soil samples collected from the excavation floor, sidewalls and the backfill material did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- Once the areas were brought back to original grade, a BLM-approved seed mixture was sown into the surface of the backfill for re-vegetation per the above stated Reclamation Plan.

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.

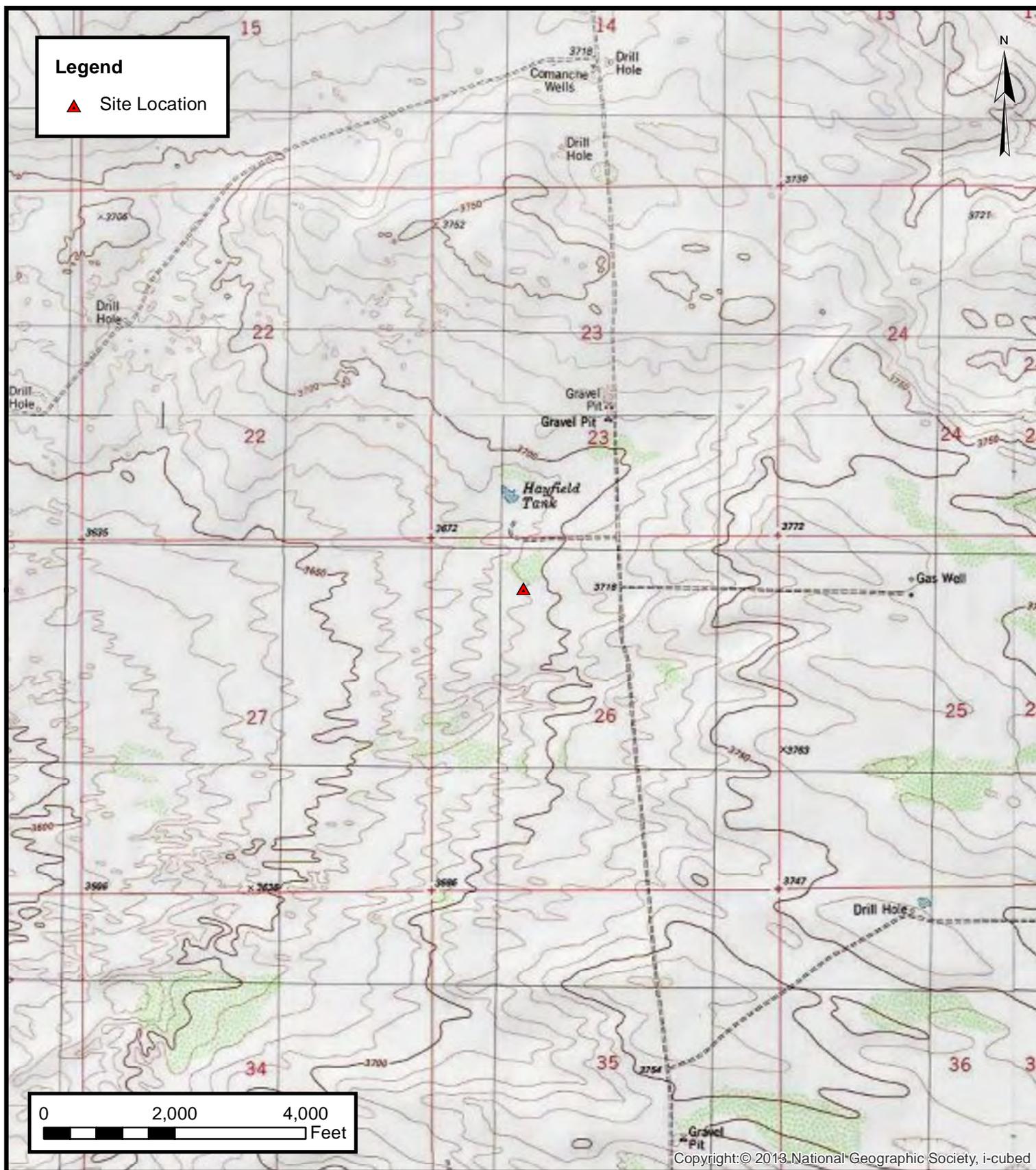
9.3 Reliance

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



Topographic Map
Oxy USA Inc.
Llama Mall 26 35 Federal Com. #311H
32.3681°N, 103.6505°W
Lea County, New Mexico

PROJECT NUMBER: 03B1417139

FIGURE
1



Site Vicinity Map
Oxy USA Inc.
Llama Mall 26 35 Federal Com. #311H
32.3681°N, 103.6505°W
Lea County, New Mexico
PROJECT NUMBER: 03B1417139

FIGURE
2

Legend

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- ▨ Release Extent
- - - Composite Soil Sample
- - - Boundaries



Sources: Environmental Systems Research Institute (ESRI)



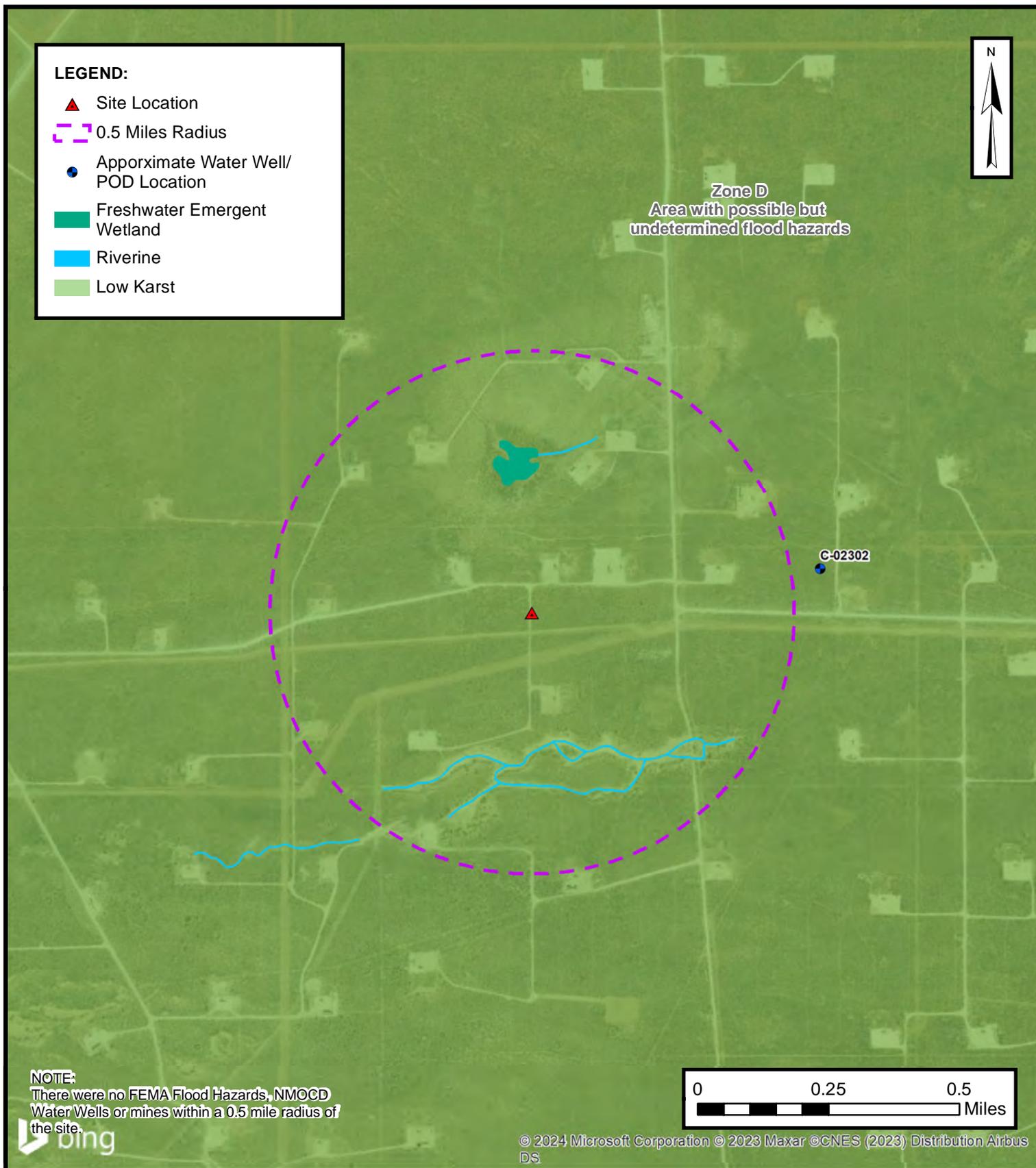
Site Map

Oxy USA Inc.
 Llama Mall 26 35 Federal Com. #311H
 32.3681° N, 103.6505° W
 Lea County, New Mexico

FIGURE

3

PROJECT NUMBER: 03B1417139

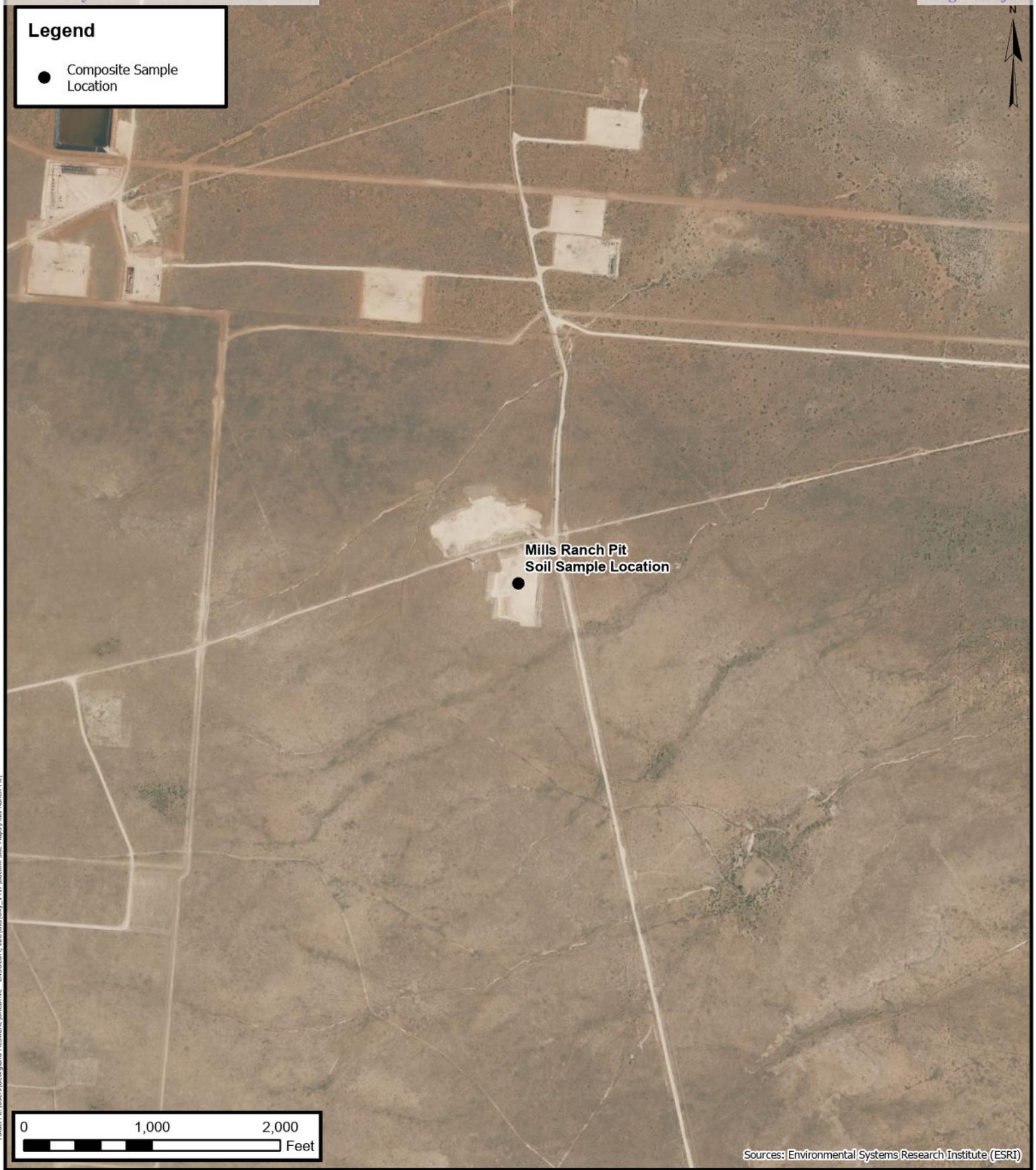


Closure Criteria Map
 Oxy USA Inc.
 Llama Mall 26 35 Federal Com. #311H
 32.3681° N, 103.6505° W
 Lea County, New Mexico
 PROJECT NUMBER: 03B1417139

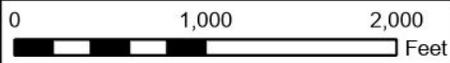
FIGURE
4

Legend

- Composite Sample Location



**Mills Ranch Pit
Soil Sample Location**



Sources: Environmental Systems Research Institute (ESRI)

Folder: C:\Users\Georgiana McSwane\OneDrive - ENSOLUM, LLC\GIS\Dry - 1417\Backfill Site Maps\Mills Ranch Pit



Backfill Site Map

Mills Ranch Pit
32.422889° N, 104.653139° W
Eddy County, New Mexico

ATTACHMENT

A



APPENDIX B

Supporting Documentation

Beaux Jennings

From: Dittrich, John W <Wade_Dittrich@oxy.com>
Sent: Saturday, January 6, 2024 2:25 PM
To: OCD.Enviro@emnrd.nm.gov; BLM_NM_CFO_Spill@blm.gov
Cc: Beaux Jennings; Pierce, Tyson (The Bergaila Company)
Subject: Initial Notification-Llama Mall 26 35 Fed. Com 311H

[**EXTERNAL EMAIL**]

All,

This is to inform you that Oxy Permian had a **Reportable** release in **Lea County** at the **Llama Mall 26 35 Fed. Com 311H** on 1/5/2024.

- **Release Location:** Legal -26-22S-32E-
- **Release Volume:** 0 bbls of Oil and 45 bbls of Produced Water.
- **Recovered:** 0 bbls of Oil recovered and 15 bbls of PW recovered
- **Cause of Release:** Water Transfer Line rupture
- **Approximate Area impacted by release:** TBD-**Leak is on location** (measurements are subject to change with GPS tracking)
- **GPS Coordinates of Leak and Driving Directions:** **32.265815, -103.74239287**- Int. of C29 and Mills Ranch Road, go 5.1 miles to Y in road, go Right for .6 miles, turn left and go 1 mile to location on Right.
- Please let me know if you have any questions.

Kelly Lowery

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, July 2, 2024 2:29 PM
To: Kelly Lowery
Cc: Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] Extension Request: Llama Mall 26 35 Federal Com. #311H (Incident ID: nAPP2401247161)

[**EXTERNAL EMAIL**]

Good afternoon Kelly,

Thank you for your request. Your 90-day time extension is approved. Remediation Due date has been updated to October 1, 2024.

This is the second 90-day extension approved by OCD.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, July 2, 2024 1:10 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: Llama Mall 26 35 Federal Com. #311H (Incident ID: nAPP2401247161)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Tuesday, July 2, 2024 12:15 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)

<tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>

Subject: [EXTERNAL] Extension Request: Llama Mall 26 35 Federal Com. #311H (Incident ID: nAPP2401247161)

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

Good afternoon,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 90-day extension for the Llama Mall 26 35 Federal Com. #311H (Incident ID: nAPP2401247161). Excavation and remediation activities are currently on-going at the Site but have been delayed due to scheduling challenges with personnel and contractors. We ask that you please approve this extension request for future sampling and subsequent reporting.

Please let us know if you have any questions.

Thank you,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC

in f 

Kelly Lowery

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, March 27, 2024 11:14 AM
To: Kelly Lowery
Cc: Wade Dittrich; tyson_pierce@oxy.com; Beaux Jennings; Bratcher, Michael, EMNRD
Subject: Re: [EXTERNAL] Llama Mall 26 35 Federal Com. #311H (nAPP2401247161)

[**EXTERNAL EMAIL**]

Good morning Kelly,

Thank you for the correspondence. Your 90-day time extension request is approved. Remediation Due date has been updated to July 3, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, March 22, 2024 2:56 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Llama Mall 26 35 Federal Com. #311H (nAPP2401247161)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Friday, March 22, 2024 2:46 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Llama Mall 26 35 Federal Com. #311H (nAPP2401247161)

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

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to request a 90-day extension for the Llama Mall 26 35 Federal Com. #311H (nAPP2401247161). Due to on-going drilling activities at the Site, remediation of the release was delayed until drilling was completed and the area was safe for entry. Around the week of February 21, 2024, drilling ceased, and remediation activities were able to begin. Excavation activities are currently being conducted at the Site; attached are a few representative photos of the area. Please let us know if you have any questions.

Thank you,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC



READ INSTRUCTIONS ON BACK

Revised June 1991

APPLICATION TO APPROPRIATE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

465390

204119

1. Name and mailing address of applicant: File No. C-2302

Pogo Producing Company
c/o Jeffrey L. Fornaciari
Hinkle, Cox, Eaton, Coffield & Hensley
Post Office Box 2068
Santa Fe, New Mexico 87504-2068

2. Describe well location under one of the following subheadings:

a. NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec. 26 Twp. 22S Rge. 32E NMPM
in Lea County.

b. X = _____ feet, Y = _____ feet, New Mexico Coordinate System
Zone in the _____ Grant.

3. Approximate depth (if known) 650 feet; outside diameter of casing 8 inches.

Name of driller (if known) Not yet known

4. Use of water (check use applied for):

- One household, non-commercial trees, lawn and garden not to exceed one acre.
- Livestock watering.
- More than one household, non-commercial trees, lawns and gardens not to exceed a total of _____ acres.
- Drill and test a well intended to be used for domestic, drinking and sanitary or stock water purposes in conjunction with the building or dwelling unit.
- Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.
- X Prospecting, mining or drilling operations to discover or develop natural resources.
- Construction of public works, highways and roads.

If any of the last three items were marked, give name and nature of business under Remarks (Item 5).

5. Remarks: Application is also being made to drill and test this well under an exploratory well permit, resulting in request for 8" casing. Applicant is an oil development and production company.

I, Jeffrey L. Fornaciari affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

Pogo Producing Company, Applicant

By: [Signature]

Date: 3/15/93

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions numbered 3, 5(a) & 5(d) on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before March 15, 1994.

Eluid L. Martinez, State Engineer

By: [Signature]
D.N. Stone, Chief, Water Rights Division

Date: March 16, 1993

File No. C-2302

WR Filed: 04-09-93
"Dry Hole"

STATE ENGINEER OFFICE
ROBERTO L. NEW MEXICO
'93 MAR 19 AM 10 58

STATE ENGINEER OFFICE
SANTA FE, NEW MEXICO
'93 MAR 15 PM 1 48

GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year (d) or upon completion of project if less than 30 days.
6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a \$5.00 filing fee to the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

Applications for appropriation, well records and requests for information in the following basins should be addressed to the State Engineer at the location indicated.

Bluewater, Estancia, Rio Grande, Sandia, Gallup and San Juan Basins
District No. 1, 3311 Candelaria, NE, Suite A, Albuquerque, NM 87107

Capitan, Carlsbad, Curry County, Fort Sumner, Hondo, Jal, Lea County, Penasco, Portales, Roswell, Tucumcari and Upper Pecos Basins District No. 2, 1900 West Second Street, Roswell, NM 88201

Animas, Gila-San Francisco, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon and Virden Valley Basins
District No. 3, P.O. Box 844, Deming, NM 88031

Lower Rio Grande, Tularosa, Hueco, Las Animas Creek and Hot Springs Basins
District No. 4, 133 Wyatt Drive, Suite 3, Las Cruces, NM 88005

Canadian River Basin
State Engineer Office, P.O. Box 25102, Santa Fe, NM 87504-5102



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
SANTA FE

ELUID L. MARTINEZ
State Engineer

BATAAN MEMORIAL BUILDING, ROOM 101
POST OFFICE BOX 25102
SANTA FE, NEW MEXICO 87504-5102

March 16, 1993

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
MAR 19 AM 10 58

Pogo Producing Company
c/o Jeffrey L. Fornaciari
Hinkle, Cox, Eaton, Coffield
& Hensley
P.O. Box 2068
Santa Fe, New Mexico 87504-2068

Re: File No. C-2302

Dear Mr. Fornaciari:

Enclosed is your client's copy of Application to Appropriate Underground Waters in Accordance with Section 72-12-1 New Mexico Statutes, as numbered above, which has been approved subject to the conditions on the permit. Please note the following:

Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.

A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the State Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water and pumping records shall be submitted to the District Supervisor for each calendar month, on or before the 30th day of the following month, or upon completion of the project if less than 30 days.

Please see that the well driller files well record in this office within 10 days after completion of drilling. Your rights under

C-2302
Page 2
March 16, 1993

this permit will expire on March 15, 1994, unless the well is drilled and well record is filed on or before the above date.

Sincerely,

Eluid L. Martinez
State Engineer

By: *D.N. Stone*
D.N. Stone, Chief
Water Rights Division

DNS:kb
encl.
cc: Roswell Office

STATE ENGINEER OFFICE
ROSWELL NEW MEXICO
93 APR 19 AM 10 58

HINKLE, COX, EATON, COFFIELD & HENSLEY

LEWIS C. COX
PAUL W. EATON
CONRAD E. COFFIELD
HAROLD L. HENSLEY, JR.
STUART D. SHANOR
ERIC D. LANPHERE
C. D. MARTIN
ROBERT P. TINNIN, JR.
MARSHALL G. MARTIN
OWEN M. LOPEZ
DOUGLAS L. LUNSFORD
JOHN J. KELLY
NICHOLAS J. NOEDING
T. CALDER EZZELL, JR.
WILLIAM B. BURFORD*
RICHARD E. OLSON
RICHARD R. WILPONG*
THOMAS J. MCBRIDE
JAMES J. WECHSLER
NANCY S. CUSACK
JEFFREY L. FORNACIARI
JEFFREY D. HEWETT
JAMES BRUCE
JERRY F. SHACKELFORD*
JEFFREY W. HELLBERG*
ALBERT L. PITTS
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JOHN C. CHAMBERS*
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DAVID T. MARKETTE*
MARK C. DOW

FRED W. SCHWENDIMANN
JAMES M. HUDSON
JEFFREY S. BAIRD*
REBECCA NICHOLS JOHNSON
WILLIAM P. JOHNSON
STANLEY K. KOTOVSKY, JR.
H. R. THOMAS
ELLEN S. CASEY
MARGARET CARTER LUDEWIG
S. BARRY PAISNER
STEPHEN M. CRAMPTON
MARTIN MEYERS
GREGORY S. WHEELER
ANDREW J. CLOUTIER
JAMES A. GILLESPIE
GARY W. LARSON
STEPHANIE LANDRY
JOHN R. KULSETH, JR.
MARGARET R. MCNETT
BRIAN T. CARTWRIGHT*
LISA K. SMITH*
ROBERT H. BETHEA*
BRADLEY W. HOWARD
CHARLES A. SUTTON
NORMAN D. EWART
DARREN T. GROCE*
MOLLY MCINTOSH
MARCIA B. LINCOLN
SCOTT A. SHUART*
DARREN L. BROOKS
CHRISTINE E. LALE
PAUL G. NASON
DARLA M. SILVA

ATTORNEYS AT LAW
218 MONTEZUMA
POST OFFICE BOX 2068
SANTA FE, NEW MEXICO 87504-2068

(505) 982-4554
FAX (505) 982-8623

CLARENCE E. HINKLE (1904-1985)
W. E. BONDURANT, JR. (1913-1973)
ROY C. SNOODGRASS, JR. (1914-1987)

OF COUNSEL
O. M. CALHOUN*
MACK EASLEY
JOE W. WOOD
RICHARD S. MORRIS

WASHINGTON, D.C.
SPECIAL COUNSEL
ALAN J. STATMAN*

March 15, 1993

*NOT LICENSED IN NEW MEXICO

HAND DELIVERED

Mr. Paul Saavedra, Deputy Chief
Water Rights Division
State Engineer Office
Bataan Memorial Building
Santa Fe, New Mexico 87503

Re: Pogo Producing Company

Dear Mr. Saavedra:

I am enclosing for filing three (3) applications on behalf of Pogo Producing Company as follows:

- 1. Application to appropriate a total of 200 acre-feet (consumptive use).
2. Application to appropriate 3.0 acre-feet for one (1) year under 72-12-1.
3. Application to drill and test an exploratory well.

All three (3) applications apply to one well which will be drilled in the NW 1/4, NE 1/4, NE 1/4 of Section 26, Township 22 South, Range 23 East, NMPM. I am also enclosing the Hinkle law firm's check in the amount of \$35.00 for the filing fees. As before, I am requesting either a letter of authorization to proceed with the exploratory well, or expedited approval of the exploratory well application, whichever you prefer. Pogo has a driller on site and hopes to proceed with the drilling as soon as possible.

700 UNITED BANK PLAZA
POST OFFICE BOX 10
ROSWELL, NEW MEXICO 88202
(505) 622-6510
(505) 623-9332
2800 CLAYDESTA CENTER
6 DESTA DRIVE
POST OFFICE BOX 3560
MIDLAND, TEXAS 79702
(915) 683-4891
FAX (915) 683-6548
1700 TEAM BANK BUILDING
POST OFFICE BOX 9238
AMARILLO, TEXAS 79105
(806) 372-5569
FAX (806) 372-9761
500 MARQUETTE N.W., SUITE 800
POST OFFICE BOX 2043
ALBUQUERQUE, NEW MEXICO 87103
(505) 768-1500
FAX (505) 768-1529

93 MAR 15 PM 1 50
STATE ENGINEER OFFICE
SANTA FE NEW MEXICO

Mr. Paul Saavedra
March 15, 1993
Page 2

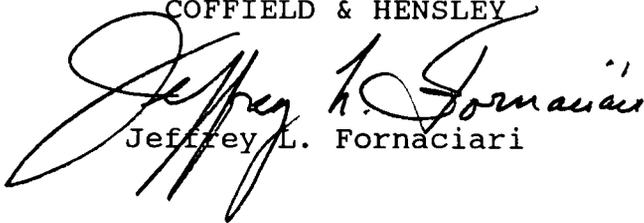
STATE ENGINEER OFFICE
ROSWELL NEW MEXICO
'93 MAR 19 AM 10 58

I am also writing to withdraw all three (3) applications associated with C-2269, in the name of Pogo Producing Company. The hole was drilled, but no water was encountered, and, therefore, Pogo is abandoning its application and permits for that particular location. The failure to find water prompted the applications I am enclosing today.

Please let me know if I can provide additional information. Thank you for your assistance in this matter.

Very truly yours,

HINKLE, COX, EATON,
COFFIELD & HENSLEY



Jeffrey L. Fornaciari

JLF: jr
Enclosures
cc: Terry Gant
Dennis R. Cooper

'93 MAR 15 PM 1 50
STATE ENGINEER OFFICE
SANTA FE NEW MEXICO

HINKLE, COX, EATON, COFFIELD & HENSLEY



APPENDIX C

Photographic Documentation

Project: Llama Mall 26 35 Federal Com. #311H
Entity: Oxy USA, Inc
Incident ID: nAPP2401247161



Impacted soil in release footprint prior to remediation activities, facing north (January 10, 2024).



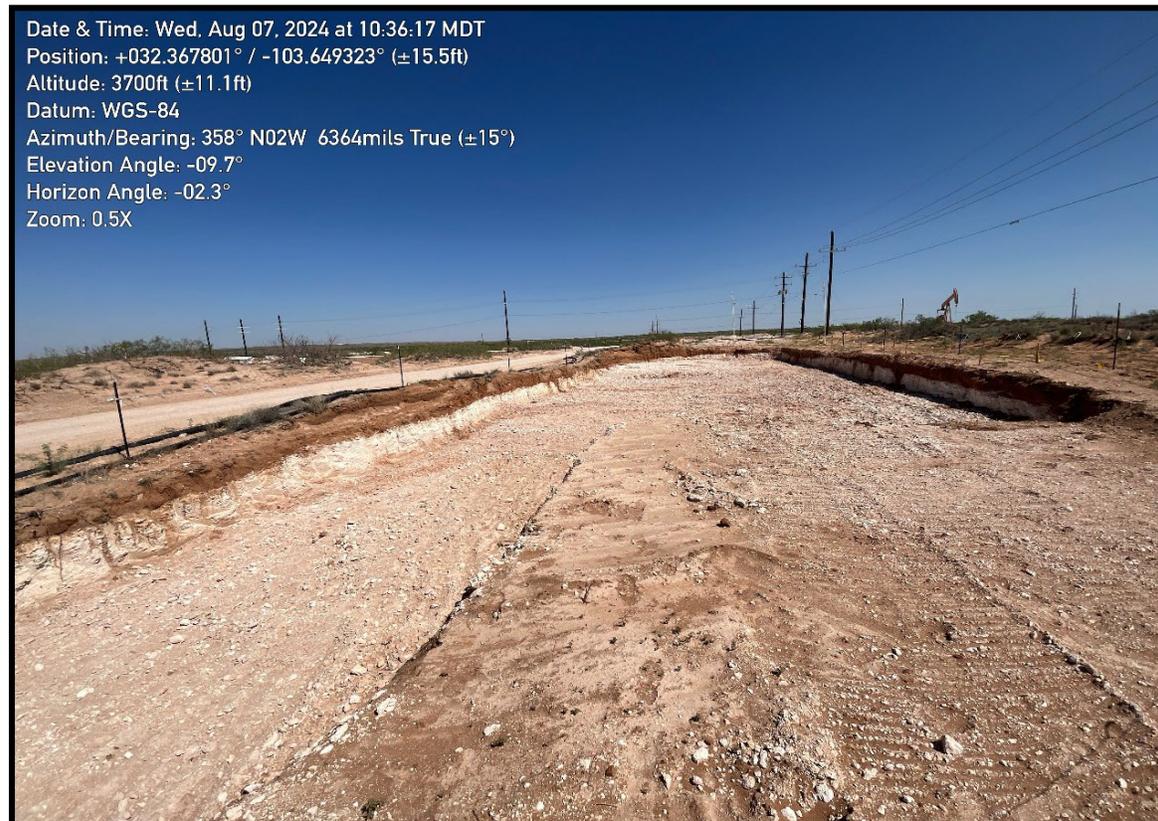
Impacted soil in release footprint prior to remediation activities, facing south (January 10, 2024).

Project: Llama Mall 26 35 Federal Com. #311H
Entity: Oxy USA, Inc
Incident ID: nAPP2401247161



Date & Time: Wed, Aug 07, 2024 at 10:35:21 MDT
Position: +032.367492° / -103.649330° (±11.6ft)
Altitude: 3704ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 338° N22W 6009mils True (±18°)
Elevation Angle: -13.7°
Horizon Angle: -02.4°
Zoom: 0.5X

View of excavated release area during remediation activities, facing northwest (August 07, 2024).



Date & Time: Wed, Aug 07, 2024 at 10:36:17 MDT
Position: +032.367801° / -103.649323° (±15.5ft)
Altitude: 3700ft (±11.1ft)
Datum: WGS-84
Azimuth/Bearing: 358° N02W 6364mils True (±15°)
Elevation Angle: -09.7°
Horizon Angle: -02.3°
Zoom: 0.5X

View of excavated release area during remediation activities, facing north (August 07, 2024).

Project: Llama Mall 26 35 Federal Com. #311H
Entity: Oxy USA, Inc
Incident ID: nAPP2401247161



View of excavated release area during remediation activities, facing southwest (August 07, 2024).



View of excavated release area during remediation activities, facing southwest (August 07, 2024).

Project: Llama Mall 26 35 Federal Com. #311H
Entity: Oxy USA, Inc
Incident ID: nAPP2401247161



View of backfilled and reseeded area post remediation activities, facing west (September 18, 2024).



View of backfilled and reseeded area post remediation activities, facing north (September 18, 2024).



APPENDIX D

Table(s)

TABLE 1
SAMPLE ANALYTICAL RESULTS
 Llama Mall 26 35 Federal Com. #311H
 Oxy USA, Inc.
 Lea County, New Mexico
 Ensolum Project No. 03B1417139

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)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Floor Sample Analytical Results												
FS-01	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.4	<10.0	27.4	1,280
	07/23/2024	4	NS					NS				
FS-02	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	175	<10.0	175	2,040
	07/23/2024	4	NS					<10.0	<10.0	<10.0	<10.0	64.0
FS-03	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	98.3	<10.0	98.3	1,490
	07/23/2024	4	NS					NS				
FS-04	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78.3	<10.0	78.3	1,170
	07/23/2024	4	NS					NS				
FS-05	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	100	<10.0	100	1,340
	07/23/2024	4	NS					<10.0	<10.0	<10.0	<10.0	64.0
FS-06	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.8	<10.0	62.8	1,070
	07/23/2024	4	NS					NS				
FS-07	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
FS-08	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.7	<10.0	44.7	944
	07/23/2024	4	NS					NS				
FS-09	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.9	<10.0	19.9	352
FS-10	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	112	14.8	127	1,570
	07/23/2024	4	NS					<10.0	<10.0	<10.0	<10.0	48.0
FS-11	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	55.1	<10.0	55.1	976
	07/23/2024	4	NS					NS				
FS-12	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.1	<10.0	20.1	448
FS-13	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.4	<10.0	17.4	592
FS-14	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	42.1	<10.0	42.1	832
	07/23/2024	4	NS					NS				
FS-15	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.8	<10.0	19.8	368
FS-16	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	70.8	<10.0	70.8	1,220
	07/23/2024	4	NS					NS				
FS-17	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	98.6	12.2	111	1,260
	07/23/2024	4	NS					<10.0	<10.0	<10.0	<10.0	672
	08/07/2024	4	NS					NS				
FS-18	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.9	<10.0	19.9	400
FS-19	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.0	<10.0	31.0	1,600
	07/23/2024	4	NS					NS				
FS-20	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.4	<10.0	19.4	496

TABLE 1
SAMPLE ANALYTICAL RESULTS
 Llama Mall 26 35 Federal Com. #311H
 Oxy USA, Inc.
 Lea County, New Mexico
 Ensolum Project No. 03B1417139

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)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
FS-21	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	640
	07/23/2024	4	NS					NS				
FS-22	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
FS-23	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	34.9	<10.0	34.9	1,090
	07/23/2024	4	NS					NS				
FS-24	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.0	<10.0	21.0	528
FS-25	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	35.8	<10.0	35.8	912
	07/23/2024	4	NS					NS				
FS-26	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.3	<10.0	18.3	736
	07/23/2024	4	NS					NS				
FS-27	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.6	<10.0	15.6	928
	07/23/2024	4	NS					NS				
FS-28	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	816
	07/23/2024	4	NS					NS				
FS-29	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	464
FS-30	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
FS-31	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
FS-32	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.0	<10.0	14.0	544
FS-33	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
FS-34	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	800
	07/23/2024	4	NS					NS				
FS-35	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,680
	07/23/2024	4	NS					NS				
FS-36	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	720
	07/23/2024	4	NS					NS				
FS-37	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	720
	07/23/2024	4	NS					NS				
FS-38	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,070
	07/23/2024	4	NS					NS				
FS-39	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
FS-40	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,380
	07/23/2024	4	NS					NS				
FS-41	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	992
	07/23/2024	4	NS					NS				

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 Oxy USA, Inc.
 Lea County, New Mexico
 Ensolum Project No. 03B1417139

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)	
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600	
FS-42	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	912	
	08/07/2024	4	NS					NS					48.0
FS-43	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.9	<10.0	27.9	2,840	
	07/23/2024	4	NS					NS					32.0
FS-44	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0	
FS-45	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	8,260	
	07/23/2024	4	NS					NS					96.0
FS-46	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	46.8	10.3	57.1	1,020	
	07/23/2024	4	NS					NS					32.0
FS-47	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,330	
	07/23/2024	4	NS					NS					112
FS-48	04/29/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.0	<10.0	23.0	496	
Composite Sidewall Sample Analytical Results													
SW-01	04/29/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192	
	08/07/2024	2-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0	
SW-02	04/29/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,680	
	08/07/2024	0-2	NS					NS					208
	07/23/2024	2-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688	
SW-03	08/07/2024	2-4	NS					NS					48.0
	04/29/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112	
SW-04	07/23/2024	2-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144	
	04/29/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0	
SW-05	07/23/2024	2-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0	
	04/29/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0	
SW-06	07/23/2024	2-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144	
	04/29/2024	0-2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224	
SW-06	07/23/2024	2-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176	

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
 Mills Ranch 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)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Background Soil Sample Analytical Result												
Mills Ranch Pit	09/30/2024	NA	<0.050	0.060	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

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



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

May 06, 2024

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

RE: LLAMA MALL 26 35 FEDERAL COM #311H

Enclosed are the results of analyses for samples received by the laboratory on 04/30/24 13:34.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 01 2' (H242300-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.11	106	2.00	5.61	
Toluene*	<0.050	0.050	05/02/2024	ND	2.20	110	2.00	5.41	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	5.74	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.72	112	6.00	4.92	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	05/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	212	106	200	4.40	
DRO >C10-C28*	27.4	10.0	05/02/2024	ND	203	101	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 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



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:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 02 2' (H242300-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.11	106	2.00	5.61	
Toluene*	<0.050	0.050	05/02/2024	ND	2.20	110	2.00	5.41	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	5.74	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.72	112	6.00	4.92	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	05/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	212	106	200	4.40	
DRO >C10-C28*	175	10.0	05/02/2024	ND	203	101	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 03 2' (H242300-03)

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	05/02/2024	ND	2.11	106	2.00	5.61	
Toluene*	<0.050	0.050	05/02/2024	ND	2.20	110	2.00	5.41	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	5.74	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.72	112	6.00	4.92	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	05/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	212	106	200	4.40	
DRO >C10-C28*	98.3	10.0	05/02/2024	ND	203	101	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 04 2' (H242300-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1170	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	212	106	200	4.40		
DRO >C10-C28*	78.3	10.0	05/02/2024	ND	203	101	200	1.77		
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND						

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 05 2' (H242300-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1340	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	212	106	200	4.40		
DRO >C10-C28*	100	10.0	05/02/2024	ND	203	101	200	1.77		
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND						

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 06 2' (H242300-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	1070	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	212	106	200	4.40		
DRO >C10-C28*	62.8	10.0	05/02/2024	ND	203	101	200	1.77		
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND						

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 07 2' (H242300-07)

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	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	176	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	212	106	200	4.40		
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	203	101	200	1.77		
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND						

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 08 2' (H242300-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41	
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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
Chloride	944	16.0	05/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	212	106	200	4.40	
DRO >C10-C28*	44.7	10.0	05/02/2024	ND	203	101	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 09 2' (H242300-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	352	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	19.9	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 10 2' (H242300-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	112	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	14.8	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 11 2' (H242300-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	976	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	55.1	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 12 2' (H242300-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	448	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	20.1	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 13 2' (H242300-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	592	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	17.4	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 14 2' (H242300-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41	
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	832	16.0	05/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35	
DRO >C10-C28*	42.1	10.0	05/01/2024	ND	221	110	200	8.46	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 15 2' (H242300-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	19.8	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 16 2' (H242300-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	1220	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	70.8	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 17 2' (H242300-17)

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	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	05/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	98.6	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	12.2	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 18 2' (H242300-18)

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	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	19.9	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 19 2' (H242300-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	31.0	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 20 2' (H242300-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	19.4	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 21 2' (H242300-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 22 2' (H242300-22)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 23 2' (H242300-23)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.00	100	2.00	6.41		
Toluene*	<0.050	0.050	05/02/2024	ND	2.01	101	2.00	5.59		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	4.87		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.93	98.8	6.00	4.75		
Total BTEX	<0.300	0.300	05/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35		
DRO >C10-C28*	34.9	10.0	05/01/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 24 2' (H242300-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35	
DRO >C10-C28*	21.0	10.0	05/01/2024	ND	221	110	200	8.46	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 25 2' (H242300-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	213	106	200	2.35	
DRO >C10-C28*	35.8	10.0	05/01/2024	ND	221	110	200	8.46	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 26 2' (H242300-26)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617		
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	213	106	200	2.35		
DRO >C10-C28*	18.3	10.0	05/02/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND						

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 27 2' (H242300-27)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617		
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	213	106	200	2.35		
DRO >C10-C28*	15.6	10.0	05/02/2024	ND	221	110	200	8.46		
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND						

Surrogate: 1-Chlorooctane 99.7 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 28 2' (H242300-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	213	106	200	2.35	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	221	110	200	8.46	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 29 2' (H242300-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 30 2' (H242300-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 31 2' (H242300-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 32 2' (H242300-32)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	14.0	10.0	05/01/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 33 2' (H242300-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 34 2' (H242300-34)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 35 2' (H242300-35)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617		
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558		
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 36 2' (H242300-36)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617		
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558		
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 37 2' (H242300-37)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 38 2' (H242300-38)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617		
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	1070	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558		
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 39 2' (H242300-39)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 40 2' (H242300-40)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617		
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	
Chloride	1380	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558		
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 41 2' (H242300-41)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	992	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 42 2' (H242300-42)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617		
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	912	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	195	97.7	200	0.558		
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	199	99.5	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND						

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 43 2' (H242300-43)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.02	101	2.00	0.617	
Toluene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	0.900	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.400	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.91	98.5	6.00	0.334	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	2840	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	27.9	10.0	05/02/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 44 2' (H242300-44)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88	
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37	QM-07
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82	QM-07
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7	QM-07
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 45 2' (H242300-45)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88		
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7		
Total BTEX	<0.300	0.300	05/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	195	97.7	200	0.558		
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	199	99.5	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND						

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 46 2' (H242300-46)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88	
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	46.8	10.0	05/02/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	10.3	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 47 2' (H242300-47)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88		
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7		
Total BTEX	<0.300	0.300	05/02/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	195	97.7	200	0.558		
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	199	99.5	200	4.50		
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND						

Surrogate: 1-Chlorooctane 106 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 48 2' (H242300-48)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88	
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7	
Total BTEX	<0.300	0.300	05/02/2024	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	496	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	195	97.7	200	0.558	
DRO >C10-C28*	23.0	10.0	05/02/2024	ND	199	99.5	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.8 % 49.1-148

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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW - 01 0-2' (H242300-49)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88	
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	205	102	200	3.38	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	202	101	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW - 02 0-2' (H242300-50)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88	
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	205	102	200	3.38	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	202	101	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW - 03 0-2' (H242300-51)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88	
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	205	102	200	3.38	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	202	101	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW - 04 0-2' (H242300-52)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88	
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	205	102	200	3.38	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	202	101	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW - 05 0-2' (H242300-53)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88	
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	205	102	200	3.38	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	202	101	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/30/2024	Sampling Date:	04/29/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW - 06 0-2' (H242300-54)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.12	106	2.00	7.88	
Toluene*	<0.050	0.050	05/02/2024	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.22	111	2.00	9.82	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.79	113	6.00	10.7	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/02/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	205	102	200	3.38	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	202	101	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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.
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

Company Name: Ensolum, LLC
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Project Manager: Kelly Lowery

Address: 601 N. Marland St. STE 400
City: Midland State: TX Zip: 79701

Phone #: 214-733-3165

Project #: 0381417739

Project Name: Llama Mall 26 35 Federal Com. #311H

Project Location: Eddy County, New Mexico

Sampler Name: Kelly Lowery

BILL TO

ANALYSIS REQUEST

P.O. #:
Company: Ensolum Dry Dr. Inc.
Attn: Wade D. French
Address:
City:
State:
Zip:
Phone #: (575) 390-2825
Email:
Project Owner: Oxy USA, Inc.
City:
State:
Zip:
Project Location: Eddy County, New Mexico

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:						
1	FS-01	2'	C	1	X							4/29/24	1333	X	X	X
2	FS-02	2'	C	1	X							4/29/24	1335	X	X	X
3	FS-03	2'	C	1	X							4/29/24	1337	X	X	X
4	FS-04	2'	C	1	X							4/29/24	1343	X	X	X
5	FS-05	2'	C	1	X							4/29/24	1341	X	X	X
6	FS-06	2'	C	1	X							4/29/24	1339	X	X	X
7	FS-07	2'	C	1	X							4/29/24	1345	X	X	X
8	FS-08	2'	C	1	X							4/29/24	1347	X	X	X
9	FS-09	2'	C	1	X							4/29/24	1349	X	X	X
10	FS-10	2'	C	1	X							4/29/24	1352	X	X	X

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Relinquished By:
Date: 4/30/24
Time: 1:30
Received By:
Date: 4/30/24
Time: 1:34
Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Observed Temp. °C:
Corrected Temp. °C:
Sample Condition:
Cool Intact
Standard Bacteria (only Sample Condition)
Thermometer ID #443
Correction Factor -0.52C
Pg 119/120

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Project Manager: Kelly Lowery

Address: 601 N. Marland St. STE 400
City: Midland State: TX Zip: 79701

Phone #: 214-733-3165 Email: klowery@ensolum.com

Project #: 03B1417139 Project Owner: Oxy USA, Inc.

Project Name: Llama Mall 26 35 Federal Com. #311H

Project Location: Eddy County, New Mexico

Sampler Name: Kelly Lowery

BILL TO

ANALYSIS REQUEST

P.O. #:
Company: Ensolum Oxy USA, Inc
Attn: Made S. Smith
Address:
City:
State:
Zip:
Phone #: (575) 390-8818
Email:
Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: ACID/BASE, ICE / COOL, OTHER:
PRESERV.
SAMPLING

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015M	BTEX 8021B	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
4242300	FS-11	2'	C	1	X						4/26/24	1351	X	X	X
	FS-12	2'	C	1	X						4/26/24	1350	X	X	X
	FS-13	2'	C	1	X						4/26/24	1352	X	X	X
	FS-14	2'	C	1	X						4/26/24	1353	X	X	X
	FS-15	2'	C	1	X						4/26/24	1354	X	X	X
	FS-16	2'	C	1	X						4/26/24	1355	X	X	X
	FS-17	2'	C	1	X						4/26/24	1354	X	X	X
	FS-18	2'	C	1	X						4/26/24	1357	X	X	X
	FS-19	2'	C	1	X						4/26/24	1357	X	X	X
	FS-20	2'	C	1	X						4/26/24	1358	X	X	X

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Relinquished By: *[Signature]* Date: 4/30/24 Received By: *[Signature]* Date: 4/30/24

Delivered By: (Circle One) *UPS* Observed Temp. °C: 3.0°C Corrected Temp. °C: #140

Sampler - UPS - Bus - Other: Sample Condition: Cool Intact Yes No

Checked By: (Initials) *AP*

Thermometer ID #113 Correction Factor -0.06

Turnaround Time: Rush Standard Bacteria (only) Sample Condition: Yes No

Verbal Result: Yes No Add'l Phone #:
All Results are emailed. Please provide Email address: klowery@ensolum.com / blennings@ensolum.com

REMARKS: Paykey/AFFNONAFE:

Pg 219/6

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

FORM-006 R 3.2 10/07/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Project Manager: Kelly Lowery

Address: 601 N. Marientfield St. STE 400
City: Midland State: TX Zip: 79701

Phone #: 214-733-3165

Project #: 03B1417139

Project Name: Llama Mall 26 35 Federal Com. #311H

Project Location: Eddy County, New Mexico

Sampler Name: Kelly Lowery

BILL TO

ANALYSIS REQUEST

P.O. #:
Company: Ensolum Oxy USA, Inc
Attn: Wade Dittich
Address:
City:
State:
Zip:
Phone #: (575) 390-2828
Email:
FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015M	BTEX 8021B	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL					
4343300	21	2'	C	1	X							4/29/24	1359	X	X	X
	22	2'	C	1	X							4/29/24	1400	X	X	X
	23	2'	C	1	X							4/29/24	1401	X	X	X
	24	2'	C	1	X							4/29/24	1403	X	X	X
	25	2'	C	1	X							4/29/24	1415	X	X	X
	26	2'	C	1	X							4/29/24	1416	X	X	X
	27	2'	C	1	X							4/29/24	1409	X	X	X
	28	2'	C	1	X							4/29/24	1411	X	X	X
	29	2'	C	1	X							4/29/24	1417	X	X	X
	30	2'	C	1	X							4/29/24	1419	X	X	X

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Relinquished By: *[Signature]* Date: 4/30/24 Time: 1:30
 Received By: *[Signature]* Date: 4/30/24 Time: 1:30
 Delivered By: (Circle One) UPS Bus Other:
 Observed Temp. °C: *30.0* Corrected Temp. °C: *30.0*
 Sample Condition: Intact Broken No
 CHECKED BY: *[Signature]*
 Turnaround Time: Standard Bacteria (only) Sample Condition
 Thermometer ID #118 Corrected Factor *0.00*
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: *klowery@ensolum.com / Bjennings@ensolum.com*
 REMARKS: Paykey/AFF/NonAFF:
 Pg 315/600

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

FORM-006 R 32 10/07/21



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: Kelly Lowery
Address: 801 N. Marlandfield St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 214-733-3165 Email: klowery@ensolum.com

Project #: 03B1H1B1A Project Owner: Oxy USA, Inc.
Project Name: Leonor Mall 216 35 Federal Em. #3114
Project Location: Eddy County New Mexico

Sampler Name: Kelly Lowery
FOR LAB USE ONLY
P.O. #: Company: Ensolum, LLC Oxy USA, Inc.
Attn: Mado Dittman
Address: City: State: Zip: Phone #: (575) 390-2808
Email:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:						
H342300	FS-31	2'	C	1							4/29/24	1421	X	X	X	
	FS-32	2'	C	1							4/29/24	1423	X	X	X	
	FS-33	2'	C	1							4/29/24	1425	X	X	X	
	FS-34	2'	C	1							4/29/24	1427	X	X	X	
	FS-35	2'	C	1							4/29/24	1429	X	X	X	
	FS-36	2'	C	1							4/29/24	1431	X	X	X	
	FS-37	2'	C	1							4/29/24	1433	X	X	X	
	FS-38	2'	C	1							4/29/24	1435	X	X	X	
	FS-39	2'	C	1							4/29/24	1437	X	X	X	
	FS-40	2'	C	1							4/29/24	1439	X	X	X	

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Relinquished By: *[Signature]* Date: 4/29/24 Time: 1:35
 Received By: *[Signature]* Date: 4/29/24 Time: 1:35
 Delivered By: (Circle One) *[Signature]* Observed Temp. °C: 30.0 Corrected Temp. °C: 30.0
 Sampler: UPS - Bus - Other: *[Signature]* Sample Condition: Cool Intact Pres No No
 CHECKED BY: (Initials) *AP*
 Remarks: PAYEE/JAFEN/MAFE: 3.9nmms@ensolum.com
 Verbal Result: Yes No Add'l Phone #: *4/10*
 All Results are emailed. Please provide Email address: klowery@ensolum.com / rlowery@ensolum.com
 Thermometer ID: *8843* Standard Observed Temp. °C: *30.0*
 Correction Factor: *0.00* Bacteria (only) Sample Condition: Yes No Yes No Corrected Temp. °C: *30.0*

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

FORM-006 R.3.2 10/07/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Project Manager: Kelly Lowery

Address: 601 N. Marland St. STE 400
City: Midland State: TX Zip: 79701

Phone #: 214-733-3165
Project #: 03B1417139

Project Name: Lama Mall 26 35 Federal Com. #311H
Project Location: Eddy County, New Mexico

Sampler Name: Kelly Lowery

BILL TO

P.O. #: Company: Ensolum Oxy USA, Inc
Attn: Made D. Troth

Address: City: State: Zip:

Phone #: (575) 390-2808
Email:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:							
41	FS-41	2'	C	1	X							4/23/24	1441	X	X	X	
42	FS-42	2'	C	1	X							4/23/24	1443	X	X	X	
43	FS-43	2'	C	1	X							4/23/24	1445	X	X	X	
44	FS-44	2'	C	1	X							4/23/24	1447	X	X	X	
45	FS-45	2'	C	1	X							4/23/24	1449	X	X	X	
46	FS-46	2'	C	1	X							4/23/24	1451	X	X	X	
47	FS-47	2'	C	1	X							4/23/24	1453	X	X	X	
48	FS-48	2'	C	1	X							4/23/24	1455	X	X	X	
49	SW-01	0-2'	C	1	X							4/23/24	1457	X	X	X	
50	SW-02	0-2'	C	1	X							4/23/24	1459	X	X	X	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim 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: [Signature] Date: 4/23/24 Time: 1:30

Received By: [Signature] Date: 4/23/24 Time: 1:30

Relinquished By: [Signature] Date: 4/23/24 Time: 1:30

Received By: [Signature] Date: 4/23/24 Time: 1:30

Delivered By: [Signature] Date: 4/23/24 Time: 1:30

Sampler - UPS - Bus - Other: [Signature]

Observed Temp. °C: 30.0 Corrected Temp. °C: 30.0

Sample Condition: Intact Leaked No

Checked By: [Signature]

Turnaround Time: Standard Expedite

Thermometer ID # [Signature] Correction Factor: [Signature]

Additional Phone #: []

Remarks: Paykey/AFFENONAFE: [Signature]

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: Kelly Lowery
Address: 601 N. Marland St. STE 400
City: Midland State: TX Zip: 79701

Phone #: 214-733-3165

Email: klowery@ensolum.com

Project #: 0331417139

Project Owner: Oxy USA, Inc

Project Location: Ucoma, Mail Box 35 Federal Cm. #311H

Sampler Name: Kelly Lowery

FOR USE ONLY

Lab I.D.

Sample I.D.

Sample Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEx 8021B

TPH 8015M

Chloride 4500

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Requisitioned By: Kelly Lowery
Received By: [Signature]
Date: 4/30/24
Time: 1:30
Date: 4/30/24
Time: 1:30
Observed Temp. °C: 30
Corrected Temp. °C: 30
Sample Condition: Cool Intact
Checked By: [Signature]
Remarks: Paykey/AE/NomATE: 3jennings@ensolum.com
Turnaround Time: Standard
Thermometer ID: #443
Correction Factor: +0.3°C
Bacteria (only) Sample Condition: []
Add'l Phone #: []

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FORM-006 R.3.2.1007/21



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

July 31, 2024

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

RE: LLAMA MALL 26 35 FEDERAL COM #311H

Enclosed are the results of analyses for samples received by the laboratory on 07/25/24 14:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS 01 4' (H244459-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 02 4' (H244459-02)

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	07/29/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.5	200	4.49	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	174	87.1	200	0.581	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

Sample ID: FS 03 4' (H244459-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	448	112	400	3.64	

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS 04 4' (H244459-04)

Chloride, SM4500CI-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	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 05 4' (H244459-05)

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	07/29/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.5	200	4.49	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	174	87.1	200	0.581	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134
 Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

Sample ID: FS 06 4' (H244459-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	448	112	400	3.64	

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #311I	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS 08 4' (H244459-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 10 4' (H244459-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/29/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.5	200	4.49	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	174	87.1	200	0.581	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134
 Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

Sample ID: FS 11 4' (H244459-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	448	112	400	3.64	

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS 14 4' (H244459-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/30/2024	ND	448	112	400	3.64	

Sample ID: FS 16 4' (H244459-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 17 4' (H244459-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	07/29/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.5	200	4.49	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	174	87.1	200	0.581	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134
 Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS 19 4' (H244459-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 21 4' (H244459-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 23 4' (H244459-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 25 4' (H244459-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 26 4' (H244459-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	448	112	400	3.64	

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS 27 4' (H244459-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 28 4' (H244459-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 34 4' (H244459-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 35 4' (H244459-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 36 4' (H244459-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/29/2024	ND	448	112	400	3.64	

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Analytical Results For:

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS 37 4' (H244459-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 38 4' (H244459-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 40 4' (H244459-25)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 41 4' (H244459-26)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 43 4' (H244459-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	448	112	400	3.64	

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Analytical Results For:

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS 45 4' (H244459-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 46 4' (H244459-29)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	448	112	400	3.64	

Sample ID: FS 47 4' (H244459-30)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/29/2024	ND	448	112	400	3.64	

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Analytical Results For:

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW 02 2-4' (H244459-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.00	100	2.00	7.14	
Toluene*	<0.050	0.050	07/29/2024	ND	1.95	97.6	2.00	7.53	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.2	2.00	8.31	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.83	97.2	6.00	8.80	
Total BTEX	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	688	16.0	07/29/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.5	200	4.49	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	174	87.1	200	0.581	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW 03 2-4' (H244459-32)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.00	100	2.00	7.14	
Toluene*	<0.050	0.050	07/29/2024	ND	1.95	97.6	2.00	7.53	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.2	2.00	8.31	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.83	97.2	6.00	8.80	
Total BTEX	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	144	16.0	07/29/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.5	200	4.49	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	174	87.1	200	0.581	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Analytical Results For:

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW 04 2-4' (H244459-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.00	100	2.00	7.14	
Toluene*	<0.050	0.050	07/29/2024	ND	1.95	97.6	2.00	7.53	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.2	2.00	8.31	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.83	97.2	6.00	8.80	
Total BTEX	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/29/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.5	200	4.49	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	174	87.1	200	0.581	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Analytical Results For:

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW 05 2-4' (H244459-34)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.00	100	2.00	7.14	
Toluene*	<0.050	0.050	07/29/2024	ND	1.95	97.6	2.00	7.53	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.2	2.00	8.31	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.83	97.2	6.00	8.80	
Total BTEX	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	144	16.0	07/29/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	185	92.3	200	0.519	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	182	91.0	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/25/2024	Sampling Date:	07/23/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Tamara Oldaker
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW 06 2-4' (H244459-35)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	3.43	
Toluene*	<0.050	0.050	07/29/2024	ND	2.08	104	2.00	3.65	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	3.69	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.66	111	6.00	3.42	
Total BTEX	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	176	16.0	07/29/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	185	92.3	200	0.519	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	182	91.0	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

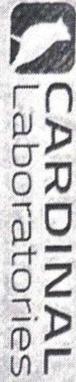
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mainland, Hobbs, NM 88240
(575) 393-2228 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Kelly Lowery
 Address: 901 N. Mainland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 214-733-3165 Email: lowery@ensolum.com
 Project #: 05B1917139 Project Owner: OXY
 Project Name: Long Mall 2435 Federal Court #3111
 Project Location: 32.5081 -103.4505
 Sampler Name: David E. Kelly
 P.O. #: Company: Oxy USA, Inc.
 Address: Valde Dierich
 City: State: Zip: Phone #: (575) 390-2828
 Email: weale_dierich@oxy.com

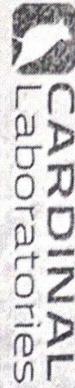
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	ANALYSIS REQUEST
12	ES16	1'	C1	1	GROUNDWATER	7/23/24	1140	X
13	19	1'	C1	1	WASTEWATER	7/23/24	1429	X
14	21	1'	C1	1	SOIL	7/23/24	1155	X
15	23	1'	C1	1	OIL	7/23/24	1138	X
16	25	1'	C1	1	SLUDGE	7/23/24	1140	X
17	26	1'	C1	1	OTHER	7/23/24	1141	X
18	27	1'	C1	1	ACID/BASE	7/23/24	1143	X
19	28	1'	C1	1	ICE / COOL	7/23/24	1144	X
20	29	1'	C1	1	OTHER	7/23/24	1148	X

Retrieved By: [Signature] Received By: [Signature]
 Date: 7/23/24
 Time: 11:35
 Checked By: [Signature] (Initials)
 Sample Condition: Cool Hot
 Container: Bus Other

Vertical Results: Yes No
 All Results are emailed. Please provide Email address: Kelly.Lowery@ensolum.com / weale_dierich@oxy.com
 REMARKS: Poly/A/E/Mon/ATE
 Thermal Seal: Standard Bus
 Thermo ID: 4899
 Correction Factor: 1.140
 Date: 7/23/24

FOUO-2008 R 3.3 10/07/21
Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalassnm.com

2/4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: EnsoLum, LLC
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Project Manager: Kelly Lowery

Address: 501 N. Marland St. STE 400

City: Midland

State: TX Zip: 79701

Phone #: 214-733-3165

Email: klowery@ensolum.com

P.O. #: Company: Dry USA, Inc.

Attn: Wade Ditch

Address:

Project #: 0381917139

Project Owner: OXY

Project Name:

Lava Mall 26 35 Fed Com #3118

City: State: Zip:

Project Location:

32-3681-103-6505

Phone #: (575) 390-2626

Sampler Name:

Isaac B. Smith

Email: wade_ditch@dry.com

FOR USE ONLY:

PRESENCE: SAMPLING

DATE TIME

Lab I.D. Sample I.D.

Sample Depth (feet)

(D)RAB OR (C)OMP

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER

ACID/BASE

ICE / COOL

OTHER

DATE TIME

Lab I.D.	Sample I.D.	Sample Depth (feet)	(D)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	ANALYSIS REQUEST
A24459	5W02	2-41	61	1										7/23/24	1517	XXXXX BTEX/8021 B.
	03		61	1											1207	XXXXX Chloride/14500
	04		61	1											1215	XXXXX TPH/8015
	05		61	1											1214	
	06		61	1											1525	

FOR USE ONLY: PRESENCE: SAMPLING

DATE TIME

XXXXX BTEX/8021 B.

XXXXX Chloride/14500

XXXXX TPH/8015

Relinquished By: [Signature]

Received By: [Signature]

Time: 7:35:24

Date: 7/23/24

Prepared By: [Signature]

Thermal Result: Yes No

All Results are emailed. Please provide Email address: klowery@ensolum.com / wade_ditch@dry.com

REMARKS: Puykay/EF/NonAF

Add Phone #:

Relinquished By: [Signature]

Checked By: [Signature]

Thermometer ID: [Signature]

Standard:

Correction Factor:

Thermometer ID: [Signature]

Standard:

Correction Factor:

Company Name: EnsoLum, LLC

Project Manager: Kelly Lowery

Address: 501 N. Marland St. STE 400

City: Midland

State: TX Zip: 79701

Phone #: 214-733-3165

Project #: 0381917139

Project Name: Lava Mall 26 35 Fed Com #3118

Project Location: 32-3681-103-6505

Sampler Name: Isaac B. Smith

Received by OCD: 10/4/2024 9:01:03 AM

Page 118 of 136

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

9/4



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

August 13, 2024

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

RE: LLAMA MALL 26 35 FEDERAL COM #311H

Enclosed are the results of analyses for samples received by the laboratory on 08/07/24 15:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/07/2024	Sampling Date:	08/07/2024
Reported:	08/13/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Alyssa Parras
Project Location:	OXY (32.3681-103.6505)		

Sample ID: FS - 17 4' (H244765-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/09/2024	ND	416	104	400	0.00	

Sample ID: FS - 42 4' (H244765-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/09/2024	ND	416	104	400	0.00	

Sample ID: SW - 01 2-4' (H244765-03)

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	08/08/2024	ND	2.40	120	2.00	3.52	
Toluene*	<0.050	0.050	08/08/2024	ND	2.38	119	2.00	7.43	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.46	123	2.00	8.17	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	7.40	123	6.00	7.78	
Total BTEX	<0.300	0.300	08/08/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/09/2024	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

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

Received:	08/07/2024	Sampling Date:	08/07/2024
Reported:	08/13/2024	Sampling Type:	Soil
Project Name:	LLAMA MALL 26 35 FEDERAL COM #3111	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Alyssa Parras
Project Location:	OXY (32.3681-103.6505)		

Sample ID: SW - 01 2-4' (H244765-03)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2024	ND	222	111	200	1.54	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	210	105	200	0.283	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>80.1 %</i>	<i>48.2-134</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>93.6 %</i>	<i>49.1-148</i>						

Sample ID: SW - 02 0-2' (H244765-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/09/2024	ND	416	104	400	0.00	

Sample ID: SW - 02 2-4' (H244765-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/09/2024	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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.
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



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

October 03, 2024

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

RE: MILLS RANCH PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/30/24 13:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	MILLS RANCH PIT	Sampling Condition:	Cool & Intact
Project Number:	03B1417139	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: MILLS RANCH PIT 0.25' (H245925-01)

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	10/02/2024	ND	1.99	99.6	2.00	6.75	
Toluene*	0.060	0.050	10/02/2024	ND	2.05	103	2.00	6.79	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.07	104	2.00	7.11	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.16	103	6.00	7.03	
Total BTEX	<0.300	0.300	10/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2024	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	205	103	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	183	91.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*=Accredited Analyte

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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 389940

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 389940
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401247161
Incident Name	NAPP2401247161 LLAMA MALL 26 35 FEDERAL COM. #311H @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	LLAMA MALL 26 35 FEDERAL COM. #311H
Date Release Discovered	01/05/2024
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 45 BBL Recovered: 15 BBL Lost: 30 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)	Leak in lay flat hose.

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 389940

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 389940
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<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: 10/04/2024
--	---

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 3

Action 389940

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 389940
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	None
A 100-year floodplain	Greater than 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)	8260
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	175
GRO+DRO (EPA SW-846 Method 8015M)	175
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	01/05/2024
On what date will (or did) the final sampling or liner inspection occur	08/07/2024
On what date will (or was) the remediation complete(d)	08/07/2024
What is the estimated surface area (in square feet) that will be reclaimed	9647
What is the estimated volume (in cubic yards) that will be reclaimed	1171
What is the estimated surface area (in square feet) that will be remediated	9647
What is the estimated volume (in cubic yards) that will be remediated	1171

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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Oil Conservation Division
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QUESTIONS, Page 4

Action 389940

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 389940
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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: 10/04/2024
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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 389940

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 389940
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 389940

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 389940
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	369648
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/07/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<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	9647
What was the total volume (cubic yards) remediated	1171
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	9647
What was the total volume (in cubic yards) reclaimed	1171
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: 10/04/2024
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QUESTIONS, Page 7

Action 389940

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 389940
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	9647
What was the total volume of replacement material (in cubic yards) for this site	1171
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	09/18/2024
Summarize any additional reclamation activities not included by answers (above)	NA
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. 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: 10/04/2024

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Action 389940

QUESTIONS (continued)

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	Action Number: 389940
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 389940

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 389940
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure and reclamation report approved.	12/26/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/26/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	12/26/2024