



CLOSURE REPORT

Property:

North Hobbs Grayburg SA #23

**Unit B, S23, T18S, R37E
32.7393875° N, 103.2187958° W
Lea County, New Mexico
API: 30-025-05464
NMOCD Incident ID: nAPP2305843365**

March 4, 2025

Ensolum Project No. 03B1417185

Prepared for:

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

Attn: Wade Dittrich

Prepared by:

Kelly Lowery, GYT
Project Geologist

Beaux Jennings
Associate Principal

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CLOSURE REPORT

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32.7393875° N, 103.2187958° W
Lea County, New Mexico
API: 30-025-05464
NMOCD Incident ID: nAPP2305843365

Ensolum Project No. 03B1417185

1.0 INTRODUCTION**1.1 Site Description and Background**

Operator:	Oxy USA, INC.
Site Name:	North Hobbs Grayburg SA #23
Location:	Unit B, Section 23, Township 18 South, Range 37 East American Petroleum Institute (API): 30-025-05464 32.7393875° N, 103.2187958° W Lea County, New Mexico
Property:	New Mexico State Trust Land managed by the New Mexico State Land Office (NMSLO)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On February 24, 2023, Oxy had a release of produced water at the Site due to a frac tank being pulled apart by cattle. Approximately 200 barrels (bbls) of produced water was released onto the ground surface with 110 bbls of produced water recovered. Oxy subsequently reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on February 27, 2023. The release was assigned Incident Number nAPP2305843365.

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**.

- Four exploratory water wells (L-03824, L-03786, United States Geological Survey (USGS) 324415103131801 and USGS 324406103124801) were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. The closest well (USGS 324415103131801) with groundwater data from February 24, 1996 indicated a depth to groundwater of 32.31 feet below ground surface (bgs) with a total depth of 110 feet bgs.
- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of 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, no freshwater wells have been identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal freshwater 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 low 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 (VEGETATIVE ZONE)			
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 February 24, 2023, Oxy had a release of produced water at the Site due to a frac tank being pulled apart by cattle. Approximately 200 bbls of produced water were released onto the ground surface on-pad with 110 bbls of produced water recovered.

Due to the Site being located on NMSLO land, an Archeological Records Management System (ARMS) Review was required prior to beginning remediation activities. This review would determine if any known cultural properties had been previously identified within the proposed remediation area and if the area had been previously surveyed for cultural resources.

On June 3, 2024, on behalf of Oxy, Beaver Creek Archaeology and Environmental (Beaver Creek) presented their ARMS Review findings to the NMSLO. Their review indicated that the area had been previously surveyed with no cultural properties found within the survey area.

On June 20, 2024, Oxy was awarded a positive response ARMS Review and approval from NMSLO to proceed with remediation activities with no conditions.

On November 8, 2024, subsequent to excavation activities, Ensolum arrived on-Site to collect 56 composite soil samples from the excavation floor (FS01 through FS56) at depths ranging from 4 to 11 feet bgs, and 18 composite soil samples from 12 locations on the excavation sidewalls (SW01 through SW12) at depths ranging from 0-4 and 4-11 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was required.

Due to the composition of the subsurface lithology consisting of a very hard, cemented limestone, excavation activities at the Site were prolonged. A hydraulic hammer attachment for the excavator was utilized to break through the cemented limestone in order to delineate the Site further.

On January 13, 2025, subsequent to additional excavation activities, Ensolum arrived on-Site to collect one composite soil sample from the excavation floor (FS31) at a depth of 5 feet below ground surface (bgs), and two composite soil samples from the excavation sidewalls (SW01 and SW06) at depths ranging from 0-4 and 4-11 feet bgs. Based on laboratory analytical data, no additional excavation and/or remediation was required.

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 (≤ 50 feet) (NMOCD Closure Criteria).

The final excavation area measured approximately 233 feet long at its maximum extent and varied from 4 feet to 45 feet wide, with a depth ranging from 4 to 11 feet bgs.

The lithology encountered during the completion of closure activities consisted of the Kimbrough-Lea complex, dry, 0 to 3 percent slopes (KU) with gravelly loam to loam from the surface to 10 inches bgs, and a cemented material from 10 inches bgs to at least 80 inches bgs.

The excavation measured approximately 10,930 square feet in arial extent. A total of approximately 2,185 cubic yards (cy) of soil were excavated from the Site and hauled off for proper disposal at the Lea Land Facility located in Hobbs, New Mexico. After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Ramirez & Sons Caliche pit for soils greater than 4 feet bgs (Non-Vegetative Zone) and from

the Jones Pit 1 for soils less than 4 feet bgs (Vegetative Zone) and then re-contoured to match pre-existing conditions.

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 November 8, 2024, to January 13, 2025, included the collection of a total of 57 composite soil samples from 56 locations from the excavation floor (FS01 through FS56) and 20 composite soil samples from 12 locations from the excavation sidewalls (SW01 through SW12). Additionally, one composite soil sample was collected from the backfill material used at the Site for soil in the Non-Vegetative Zone (Ramirez & Sons Caliche Pit) on September 19, 2024 and from the backfill material used at the Site for soils in the Vegetative Zone (Jones Pit 1) on February 6, 2025, prior to use at the Site.

The composite 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 the 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**, **Table 2**, and **Table 3** 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 to laboratory sample detection limits (SDLs) associated with the soils remaining in place at the Site to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicated benzene concentrations for the soils remaining in place at the Site, and the backfill materials did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the soils remaining in place at the Site and the backfill materials did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site, and the backfill materials did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site, and the backfill materials did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater ≤50 feet.

Laboratory analytical results are summarized in **Table 1** and **Table 2** 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 in the Vegetative Zone 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: The soil in the vicinity of the release includes: KU predominately gravelly loam from 0-10 inches bgs and a cemented material from 10-80 inches bgs;

- The excavation was backfilled with locally sourced topsoil from the Jones Pit 1 and recontoured to match the surrounding grade;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be Coarse (CS) Sites Seed Mixture as described in the NMSLO Revegetation Guidelines Handbook for Southeastern New Mexico, dated 2018;
- The seed mixture will be 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 will be 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 is 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 has already been completed;
- Seeding is anticipated to be completed in the spring/summer when temperatures and precipitation 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. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site; and
- 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 NMSLO-approved pure live seed mixture will be applied as well, and any needed BMPs will be installed to support growth and limit erosion.

8.0 FINDINGS AND RECOMMENDATION

- On February 24, 2023, Oxy had a release of produced water at the Site due to a frac tank being pulled apart by cattle. Approximately 200 bbls of produced water were released onto the ground surface on-pad with 110 bbls of produced water recovered.
- Ensolum's soil sampling program from November 8, 2024, through January 13, 2025, included the collection of a total of 57 composite soil samples from 56 locations from the excavation floor (FS01 through FS56) and 20 composite soil samples from 12 locations from the excavation sidewalls (SW01 through SW12). Additionally, one composite soil sample was collected from the backfill material used at the Site for soil in the Non-Vegetative Zone (Ramirez & Sons Caliche Pit) on September 19, 2024 and from the backfill material used at the Site for soils in the Vegetative Zone (Jones Pit 1) on February 6, 2025, prior to use at the Site.
- 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 233 feet long at its maximum extent and varied from 4 feet to 45 feet wide, with a depth ranging from 4 to 11 feet bgs.
- Based on laboratory analytical results, the final composite soil samples within the impacted area and the backfill materials did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria.
- After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Ramirez & Sons Caliche pit for soils in the Non-Vegetative Zone and from the Jones Pit 1 for soils in the (Vegetative Zone) and then re-contoured to match pre-existing conditions.

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.

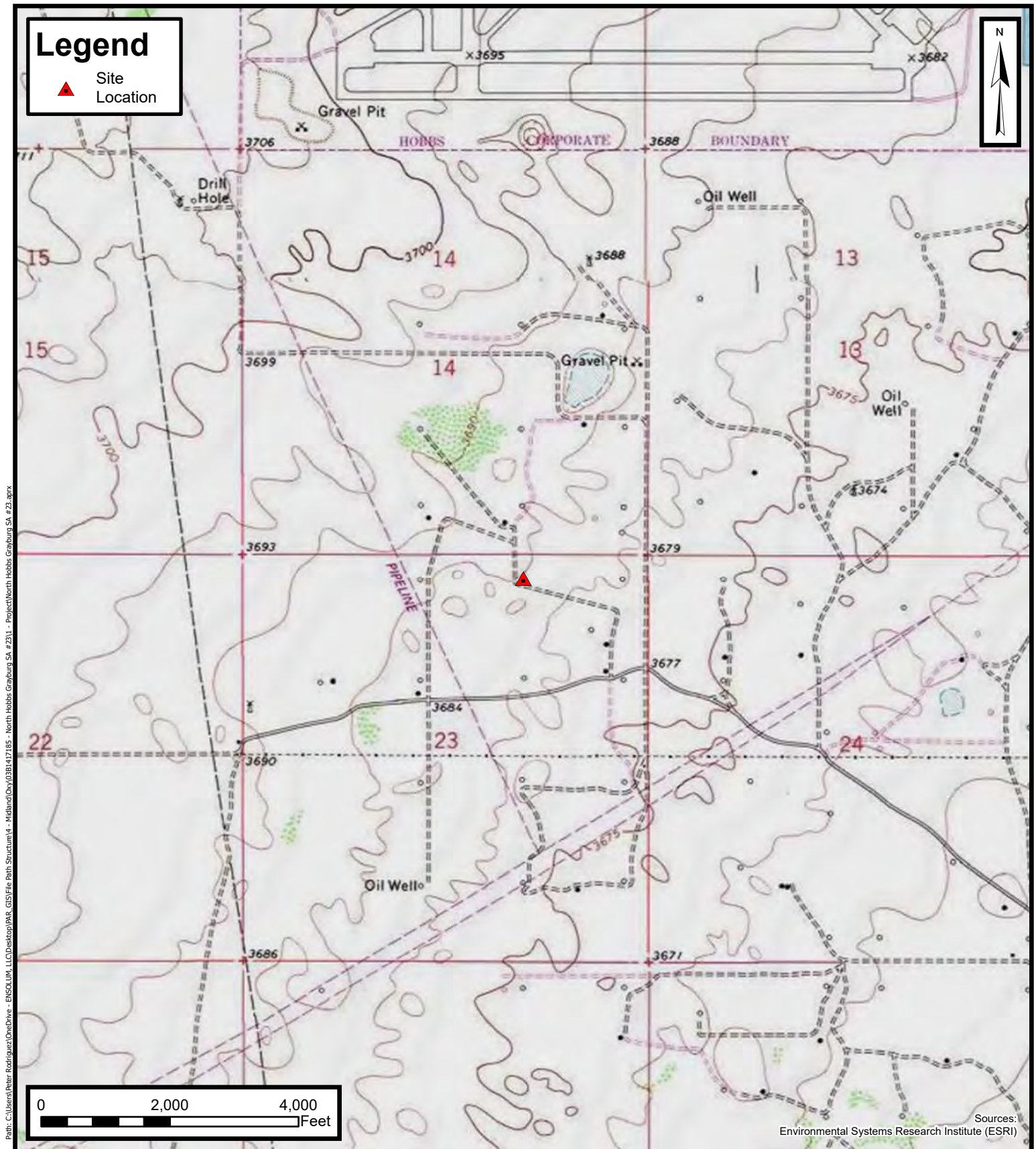
9.3 Reliance

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 of 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

North Hobbs Grayburg SA #23

Oxy USA Inc.

32.7393875, -103.2187958

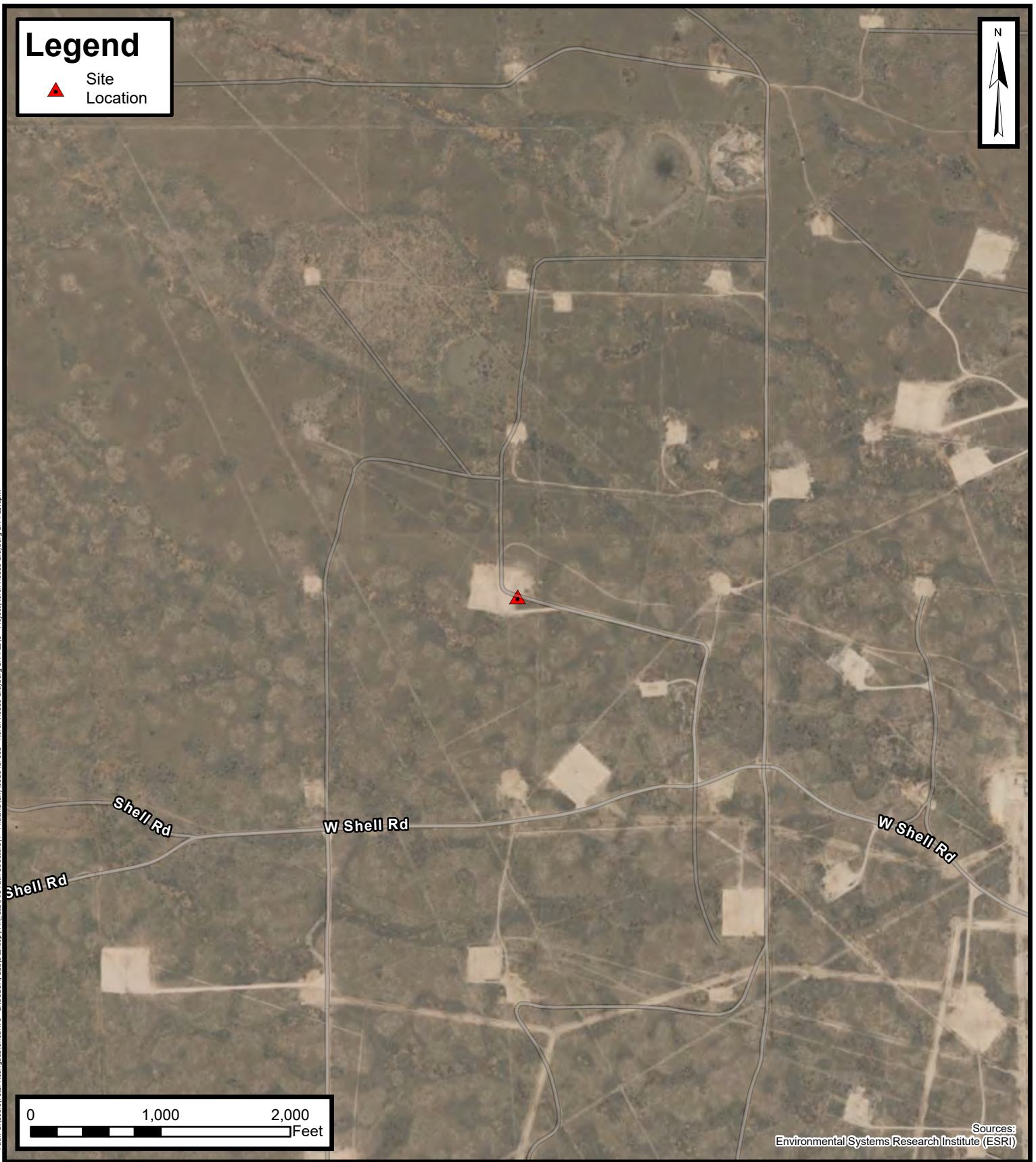
Lea County, New Mexico

Project Number: 03B1417185

FIGURE

1

Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\Site Path Structure\4 - Midland\Oxy\03B1417185 - North Hobbs Grayburg SA #231 - Project\North Hobbs Grayburg SA #23.aprx



Site Vicinity Map

North Hobbs Grayburg SA #23

Oxy USA Inc.

32.7393875, -103.2187958

Lea County, New Mexico






Project Number: 03B1417185

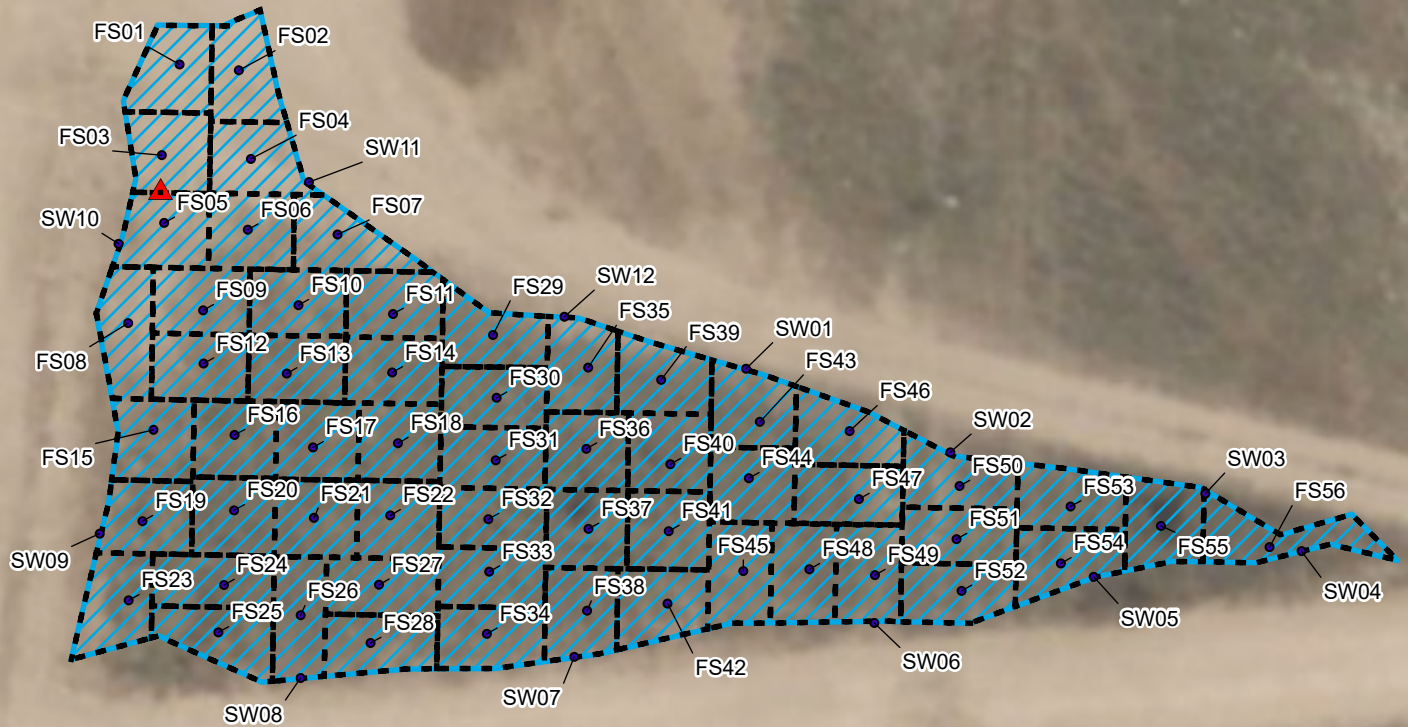
FIGURE

2

Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\4 - Midland\Oxy\03B1417185 - North Hobbs Grayburg SA #231 - Project\North Hobbs Grayburg SA #23.aprx

Legend

-  Point of Release
-  Confirmation Soil Sample Location
-  Production Equipment
-  Excavation Extent
-  200 Sq. Ft Polygon



0 40 80 Feet

Sources:
Bing Maps



Site Map

North Hobbs Grayburg SA #23

Oxy USA Inc.

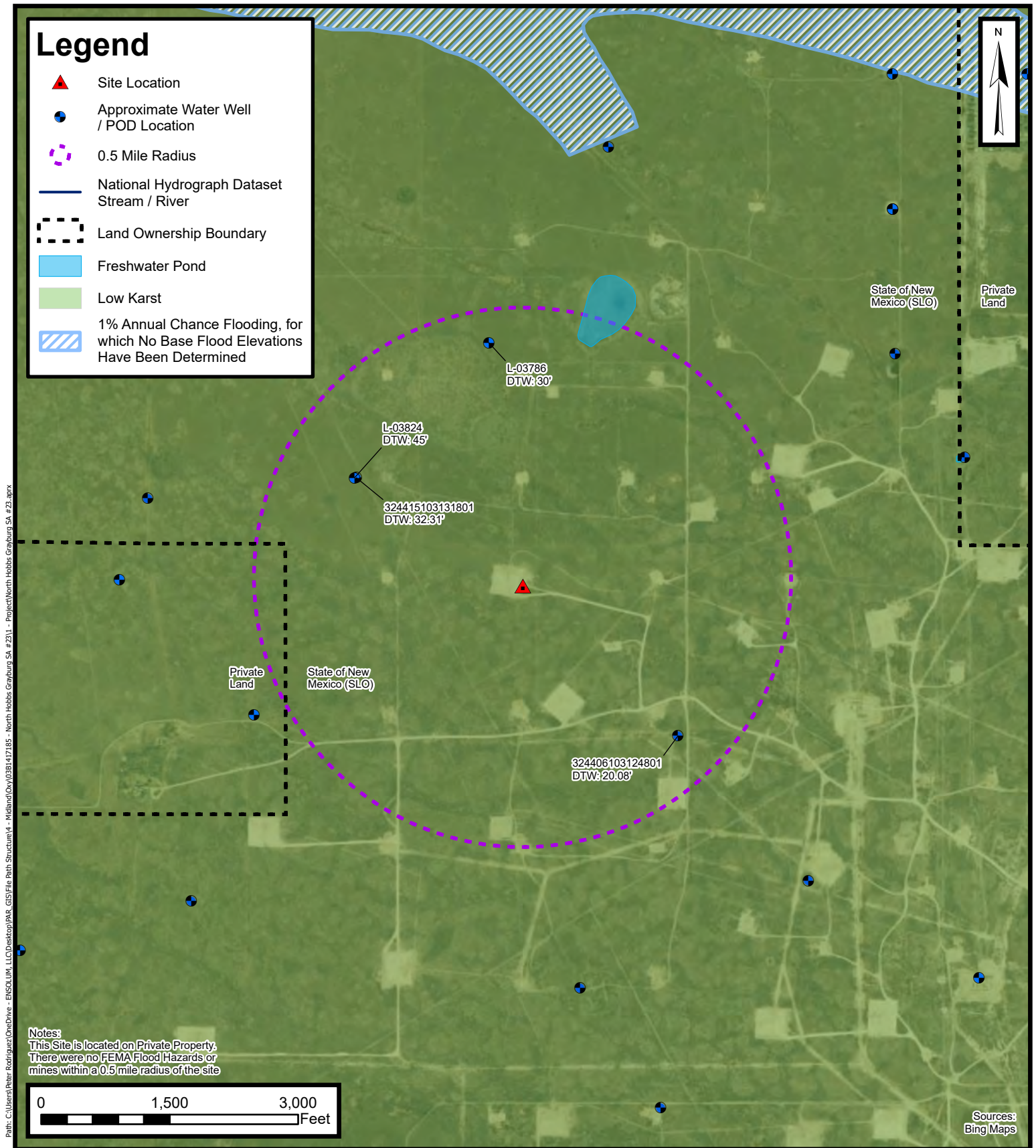
32.7393875, -103.2187958

Lea County, New Mexico

Project Number: 03B1417185

FIGURE

3



Closure Criteria Map

North Hobbs Grayburg SA #23

Oxy USA Inc.

32.7393875, -103.2187958

Lea County, New Mexico

Project Number: 03B1417185

FIGURE

4





APPENDIX B

Supporting Documentation

Kelly Lowery

From: Kelly Lowery
Sent: Tuesday, November 5, 2024 2:44 PM
To: eco@nmslo.gov
Cc: Dittrich, John W; Pierce, Tyson (Legacy Safety & Consulting LLC); Beaux Jennings
Subject: (Sampling Notification) Oxy, USA, Inc. - North Hobbs Grayburg SA #23 (Incident ID: nAPP2305843365) - Release Date: 2/24/2023

Good afternoon,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to submit this two-day sampling notification for the North Hobbs Grayburg SA #23 (Incident ID: nAPP2305843365). Based on current ongoing excavation activities at the Site, confirmation soil sampling will be attempted this coming Friday, November 8th, 2024.

Thank you and please let me know if there are any questions.



Kelly Lowery, GIT
Project Geologist
214-733-3165
Ensolum, LLC
in f t

Kelly Lowery

From: Kelly Lowery
Sent: Thursday, January 9, 2025 2:15 PM
To: eco@slo.state.nm.us; eco@nmslo.gov
Cc: Dittrich, John W; Pierce, Tyson (Legacy Safety & Consulting LLC); Beaux Jennings
Subject: (Sampling Notification for 01/13/2025) Oxy USA, Inc - North Hobbs Grayburg SA #23 (Incident ID: nAPP2305843365) - 02/24/2023

Good afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the North Hobbs Grayburg SA #23 (Incident ID: nAPP2305843365) on Monday, January 13th at 1:15pm MST. The samples may be used for closure, provided they meet applicable closure limits.

Thank you,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC





Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

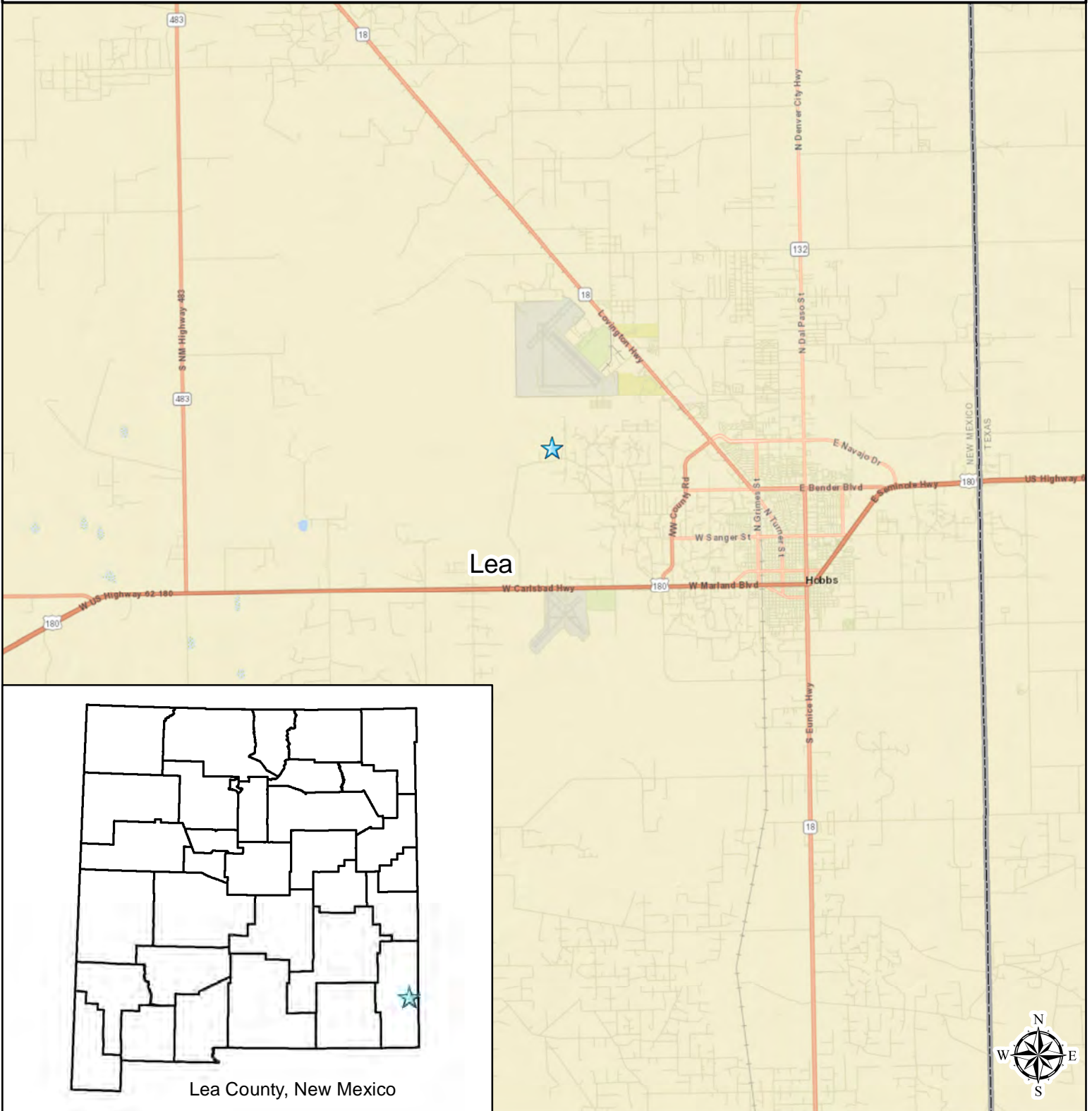
No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



Beaver Creek ARCHAEOLOGY

North Hobbs Grayburg SA #23
Ensolum, LLC
T18S R37E Sec. 23
Hobbs West(1979) Quad. Map
Monument-Seminole Draws Drainage
Lea County, New Mexico



Legend

★ Project Location



Base Map: USGS 7.5'
Scale: 1:180,000
UTM NAD83 Zone 13



Beaver Creek
ARCHAEOLOGY

REDACTED

North Hobbs Grayburg SA #23

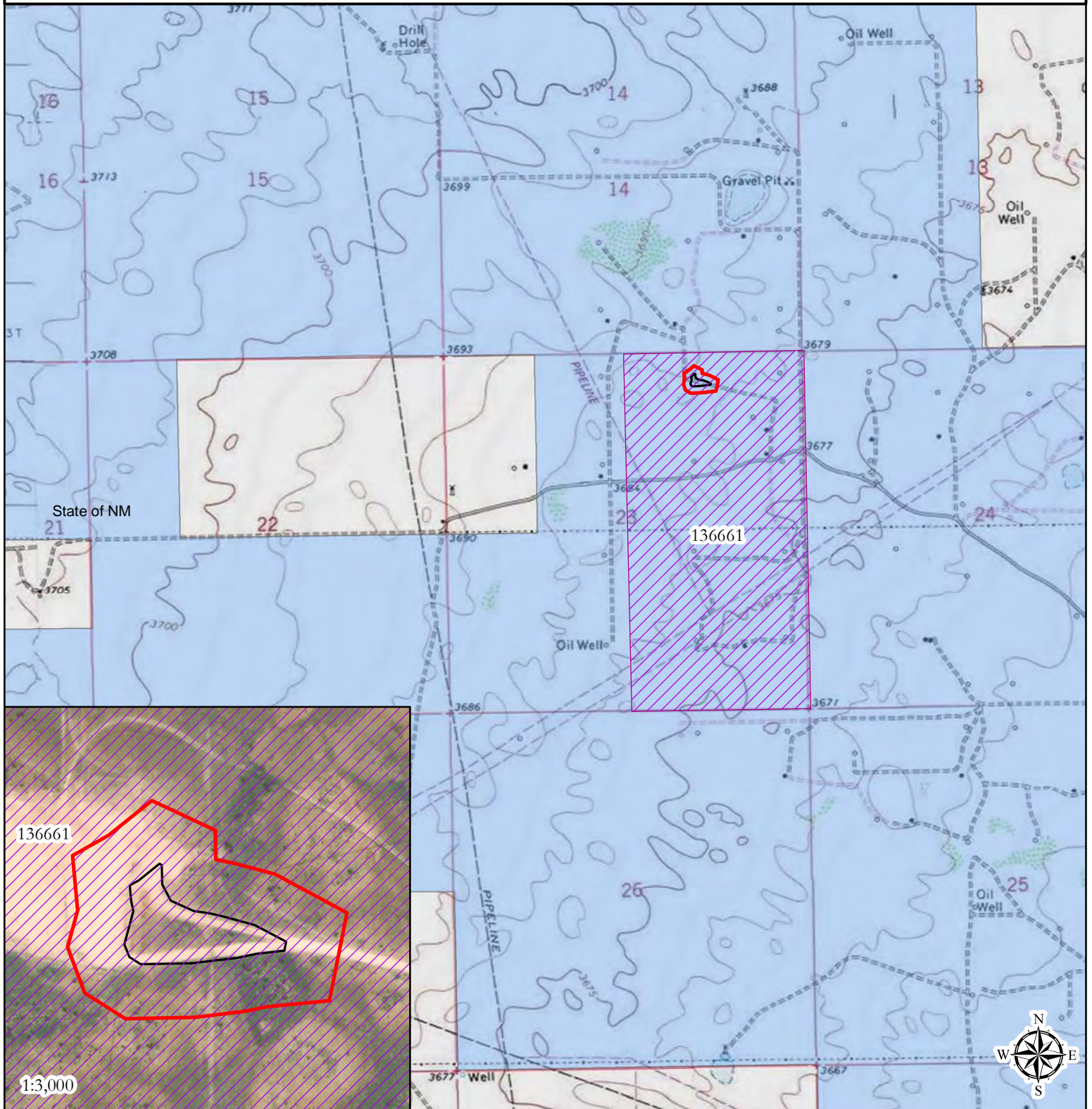
Ensolum, LLC

T18S R37E Sec. 23

Hobbs West(1979) Quad. Map

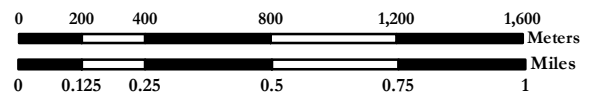
Monument-Seminole Draws Drainage

Lea County, New Mexico



Legend

- Inventory Area (3.32 Acres)
- Previously Surveyed (3.32 Acres)
- Workspace Limits (0.63 Acres)



Base Map: USGS 7.5'
Scale: 1:24,000
UTM NAD83 Zone 13

Kelly Lowery

From: Raina Hanley <RHanley@bcarch.org>
Sent: Thursday, June 20, 2024 10:33 AM
To: Kelly Lowery; Beaux Jennings; Wade Burns; Marc Seamands
Subject: Fw: Remediation ARMS Cover Sheet submission- Ensolum for Oxy USA (BCA24-1732)

[**EXTERNAL EMAIL**]

From: Curry, Anne R. <acurry@slo.state.nm.us>
Sent: Thursday, June 20, 2024 8:56 AM
To: Raina Hanley <RHanley@bcarch.org>; CRO Info <croinfo@slo.state.nm.us>
Subject: RE: Remediation ARMS Cover Sheet submission- Ensolum for Oxy USA (BCA24-1732)

Good morning Raina,

Thank you for the submission of the attached Cover Sheet. Since the proposed remediation activities will take place in an area that has been covered by archaeological survey, Ensolum is free to move forward with remediation. Please reach out if you have additional questions-



Anne Curry

*Archaeologist
Cultural Resources Office
Office: 505.827.1276
Cell: 505.469.5582*

New Mexico State Land Office
310 Old Santa Fe Trail



P.O. Box 1148
Santa Fe, NM 87504-1148
acurry@slo.state.nm.us
nmstatelands.org

.....

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From: Raina Hanley <RHanley@bcarch.org>
Sent: Monday, June 3, 2024 10:31 AM
To: CRO Info <croinfo@slo.state.nm.us>
Subject: [EXTERNAL] Remediation ARMS Cover Sheet submission- Ensolum for Oxy USA (BCA24-1732)

Good Morning,

Attached please find the following ARMS Report Cover Sheet submission for Ensolum on behalf of Oxy USA:

- Oxy's North Hobbs Grayburg SA #23 Remediation ARMS

The associated files have been uploaded to the CPP site as Form ID: A-20240603-000624.

Please let us know if you have any questions, concerns, or need any additional information.

Thank you!
Raina

Raina Hanley
Chief Operating Officer

Beaver Creek Archaeology & Environmental
1632 Capitol Way
Bismarck, ND 58501
Ph: (701) 663-5521 | Fx: (701) 663-5589

Beaver Creek Archaeology & Environmental
712 West Quay Avenue
Artesia, NM 88210
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United States Department of the Interior

FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna Road Ne
Albuquerque, NM 87113-1001
Phone: (505) 346-2525 Fax: (505) 346-2542



In Reply Refer To:

01/15/2025 19:02:38 UTC

Project Code: 2025-0042767

Project Name: North Hobbs Grayburg SA #23

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act as amended (16 USC 668-668(c)). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area, and to recommend some conservation measures that can be included in your project design.

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the ESA is to provide a means whereby threatened and endangered species and

the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (NEPA; 42 USC 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at <https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>.

Candidate Species and Other Sensitive Species

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico State agencies. These lists, along with species information, can be found at the following websites.

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program:
<https://www.emnrd.nm.gov/sfd/rare-plants/>

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: nhnm.unm.edu

WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, www.fws.gov/wetlands/Data/Mapper.html, integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

MIGRATORY BIRDS

In addition to responsibilities to protect threatened and endangered species under the ESA, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 CFR 10.12 and 16 USC 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a Federal nexus) or a Bird/Eagle Conservation Plan (when there is no Federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>. We also recommend review of the Birds of Conservation Concern list (<https://www.fws.gov/media/birds-conservation-concern-2021>) to fully evaluate the effects to the birds at your site. This list identifies migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent top conservation priorities for the Service, and are potentially threatened by disturbance, habitat impacts, or other project development activities.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 thereby provides additional protection for both migratory birds and migratory bird habitat. Please visit <https://www.fws.gov/partner/council-conservation-migratory-birds> for information regarding the implementation of Executive Order 13186.

Project code: 2025-0042767

01/15/2025 19:02:38 UTC

We suggest you contact the New Mexico Department of Game and Fish, and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State protected and at-risk species fish, wildlife, and plants.

For further consultation with the Service we recommend submitting inquiries or assessments electronically to our incoming email box at nmesfo@fws.gov, where it will be more promptly routed to the appropriate biologist for review.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New Mexico Ecological Services Field Office

2105 Osuna Road Ne

Albuquerque, NM 87113-1001

(505) 346-2525

Project code: 2025-0042767

01/15/2025 19:02:38 UTC

PROJECT SUMMARY

Project Code: 2025-0042767

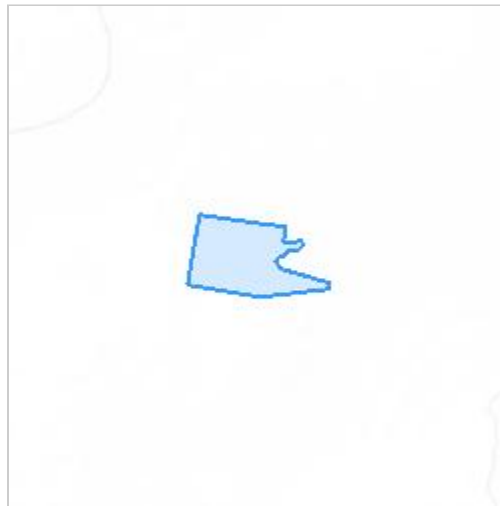
Project Name: North Hobbs Grayburg SA #23

Project Type: Oil & Gas Well Maintenance

Project Description: This site is undergoing remediation for a release from a pipeline leak from February 2023. The aim for the operator is to complete the remediation efforts by the end of 2025.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@32.73929765,-103.2191708230051,14z>



Counties: Lea County, New Mexico

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

BIRDS

NAME	STATUS
Lesser Prairie-chicken <i>Tympanuchus pallidicinctus</i> Population: Southern DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1924	Endangered
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1923	Experimental Population, Non- Essential

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Project code: 2025-0042767

01/15/2025 19:02:38 UTC

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Trevor Hartwig
Address: 11049 West 44th Avenue
City: Wheat Ridge
State: CO
Zip: 80033
Email: thartwig@ensolum.com
Phone: 3038172989



North Hobbs Grayburg SA #23



January 15, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 03824	4	3	14	18S	37E		666384	3624087*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY
Driller Name:
Drill Start Date: 03/24/1958 **Drill Finish Date:** 03/25/1958 **Plug Date:** 03/30/1959
Log File Date: 03/26/1958 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**
Casing Size: **Depth Well:** 110 feet **Depth Water:** 45 feet

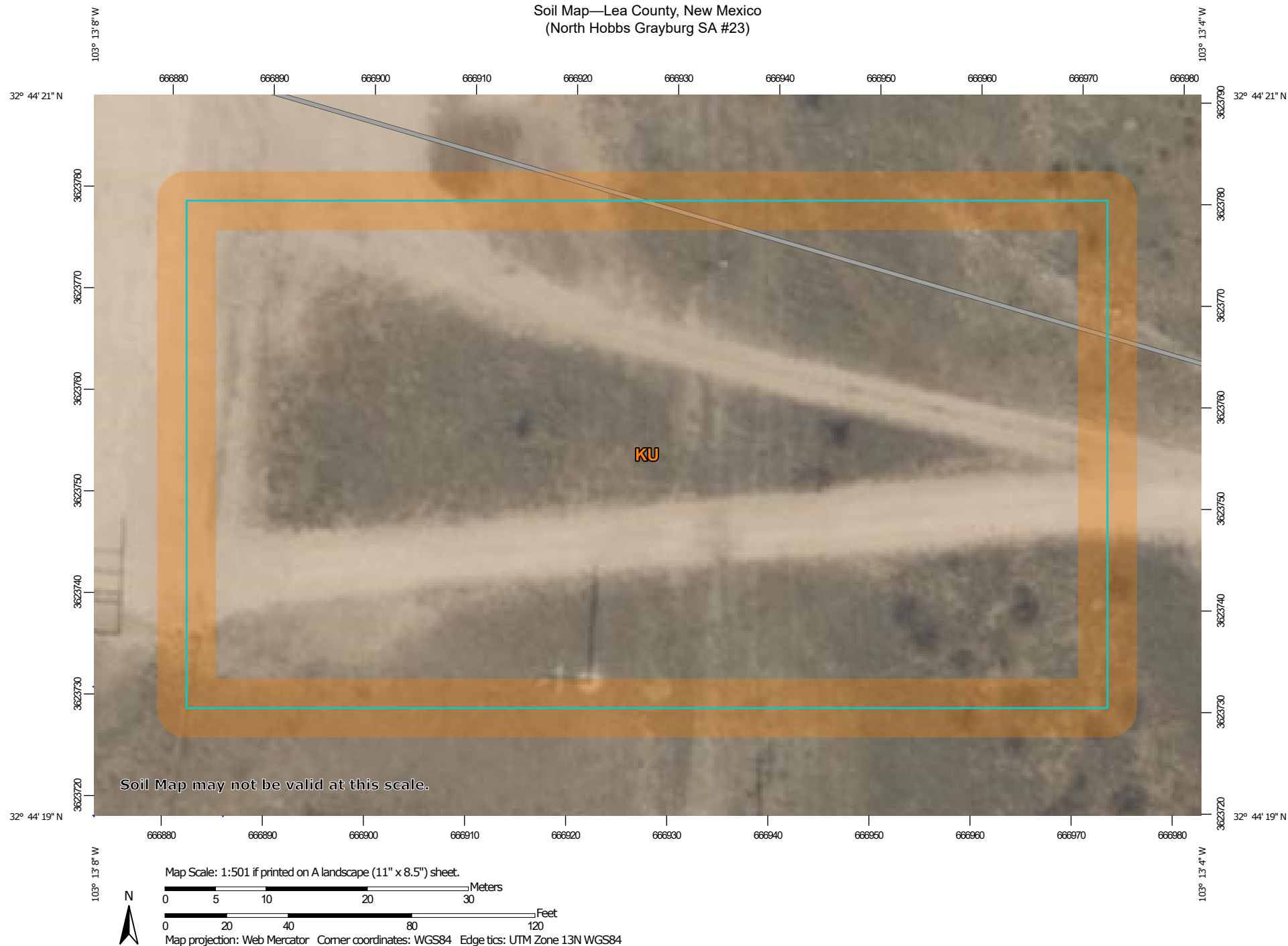
Water Bearing Stratifications: **Top Bottom Description**
45 110 Sandstone/Gravel/Conglomerate

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/29/24 9:03 AM


POINT OF DIVERSION SUMMARY

Soil Map—Lea County, New Mexico
(North Hobbs Grayburg SA #23)Natural Resources
Conservation ServiceWeb Soil Survey
National Cooperative Soil Survey1/16/2025
Page 1 of 3

Soil Map—Lea County, New Mexico
(North Hobbs Grayburg SA #23)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	1.1	100.0%
Totals for Area of Interest		1.1	100.0%

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

North Hobbs Grayburg SA #23

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46

Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent

Lea and similar soils: 25 percent

Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam

Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material

Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

North Hobbs Grayburg SA #23

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

North Hobbs Grayburg SA #23

Kenhill

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024

NMSLO Seed Mix**Coarse (CS)****COARSE (CS) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	VNS, Southern	2.0	F
Sideoats grama	Vaughn, El Reno	2.0	F
Blue grama	Hachita, Lovington	1.5	D
Little bluestem	Cimmaron, Pastura	1.5	F
Sand dropseed	VNS, Southern	1.0	S
Plains bristlegrass	VNS, Southern	0.75	D
Forbs:			
Parry penstemon	VNS, Southern	1.0	D
Desert globemallow	VNS, Southern	1.0	D
White prairieclover	Kaneb, VNS	0.5	D
Sulfur buckwheat	VNS, Southern	0.5	D
Shrubs:			
Fourwing saltbush	VNS, Southern	1.0	D
Skunkbush sumac	VNS, Southern	1.0	D
Common winterfat	VNS, Southern	1.0	F
Fringed sagewort	VNS, Southern	0.5	F
Total PLS/acre		18.25	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow.
- If one species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



WELL RECORD

Gulf State "FO" No. 1

449635

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

Section 1

(A) Owner of well Donnell Drilling Co.
Street and Number Box 1308
City Odessa State Texas
Well was drilled under Permit No. L-3824 and is located in the
E 1/4 SE 1/4 SW 1/4 of Section 14 Twp. 18 S Rge. 37 E
(B) Drilling Contractor Abbott Bros. License No. WD-46
Street and Number Box 637
City Hobbs State New Mexico
Drilling was commenced March 24 1958
Drilling was completed March 25 1958

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 110
State whether well is shallow or artesian Shallow Depth to water upon completion 45

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	45	110	65	Water Sand
2				
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in.	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
			Surface nipple only					

Section 4

RECORD OF MUDDING AND CEMENTING

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

1958 APR -7 AM 9:27
STATE ENGINEER OFFICE
SANTA FE, N.M.

Section 5

PLUGGING RECORD

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

FOR USE OF STATE ENGINEER ONLY

Date Received MAR 26 1958

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

File No. L-3824 Use O.S.P. Location No. 18-37-14-340

Cement Plugs were placed as follows:

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

Santa Fe
plugging

WELL RECORD

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

Section 1

(Plat of 640 acres)

(A) Owner of well CACTUS DRILLING COMPANY
Street and Number 715 S.Cecil St.
City Hobbs, New Mexico State _____
Well was drilled under Permit No. L 3786 and is located in the
N W ¼ S E ¼ ¼ of Section 14 Twp. 18 Rge. 37
(B) Drilling Contractor ROBERTS DRILLING CO. License No. I37
Street and Number 621 15th St.
City Eunice State New Mexico
Drilling was commenced 2/10 19 58
Drilling was completed 2/12 19 58

Elevation at top of casing in feet above sea level _____ Total depth of well 65
State whether well is shallow or artesian Shallow Depth to water upon completion 30

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	35	65	30	Course sand and gravel
2				
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7"	20#	10	0	65	65	none	45	65

Section 4

RECORD OF MUDDING AND CEMENTING

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

Section 5

PLUGGING RECORD

Name of Plugging Contractor Roberts Drilling Co License No. I37
Street and Number 621 15th City Eunice, New Mex State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used Filled hole with mud from pit up to 20 ft of surface then Date Plugged 3/28 19 58
Plugging approved by filled to surface with galiche. Cement Plugs were placed as follows:

Howard E. Lowrey
Basin Supervisor

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

FOR USE OF STATE ENGINEER ONLY

Date Received SEP 24 1958

OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

File No. L-3786 Use O.W.D. Location No. 18.37.14.410

LOG OF WELL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well

Grady Roberts
Well Driller

agency_cd	site_no	station_nm	dec_lat_va	dec_long_va	dec_coord_datum_cd	state_cd	county_cd	Altitude_ft	alt_datum_cd	well_depth_va	gw_count_nu	lev_dt	lev_va	x	y	
USGS	324406103124801	18S.37E.23.22232	32.73511539	-103.2138202	NAD83	35	25	3677	NAVD88			4	3/2/1961	19.54	667365.6215	3623333.43
USGS	324406103124801	18S.37E.23.22232	32.73511539	-103.2138202	NAD83	35	25	3677	NAVD88			4	3/30/1966	22.46	667365.6215	3623333.43
USGS	324406103124801	18S.37E.23.22232	32.73511539	-103.2138202	NAD83	35	25	3677	NAVD88			4	2/10/1971	22.78	667365.6215	3623333.43
USGS	324406103124801	18S.37E.23.22232	32.73511539	-103.2138202	NAD83	35	25	3677	NAVD88			4	1/29/1976	20.08	667365.6215	3623333.43
USGS	324415103131801	18S.37E.14.344121	32.74206027	-103.2240984	NAD83	35	25	3692.6	NGVD29	110		8	3/3/1961	25.1	666389.5096	3624087.267
USGS	324415103131801	18S.37E.14.344121	32.74206027	-103.2240984	NAD83	35	25	3692.6	NGVD29	110		8	3/30/1966	28.89	666389.5096	3624087.267
USGS	324415103131801	18S.37E.14.344121	32.74206027	-103.2240984	NAD83	35	25	3692.6	NGVD29	110		8	2/15/1971	27.48	666389.5096	3624087.267
USGS	324415103131801	18S.37E.14.344121	32.74206027	-103.2240984	NAD83	35	25	3692.6	NGVD29	110		8	1/28/1976	24.95	666389.5096	3624087.267
USGS	324415103131801	18S.37E.14.344121	32.74206027	-103.2240984	NAD83	35	25	3692.6	NGVD29	110		8	2/24/1981	28.4	666389.5096	3624087.267
USGS	324415103131801	18S.37E.14.344121	32.74206027	-103.2240984	NAD83	35	25	3692.6	NGVD29	110		8	1/15/1986	30.88	666389.5096	3624087.267
USGS	324415103131801	18S.37E.14.344121	32.74206027	-103.2240984	NAD83	35	25	3692.6	NGVD29	110		8	2/27/1991	33.18	666389.5096	3624087.267
USGS	324415103131801	18S.37E.14.344121	32.74206027	-103.2240984	NAD83	35	25	3692.6	NGVD29	110		8	1/24/1996	32.31	666389.5096	3624087.267



APPENDIX C

Photographic Documentation

Project: North Hobbs Grayburg SA #23
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP2305843365



View of initial release extent, facing east (05/31/2024).

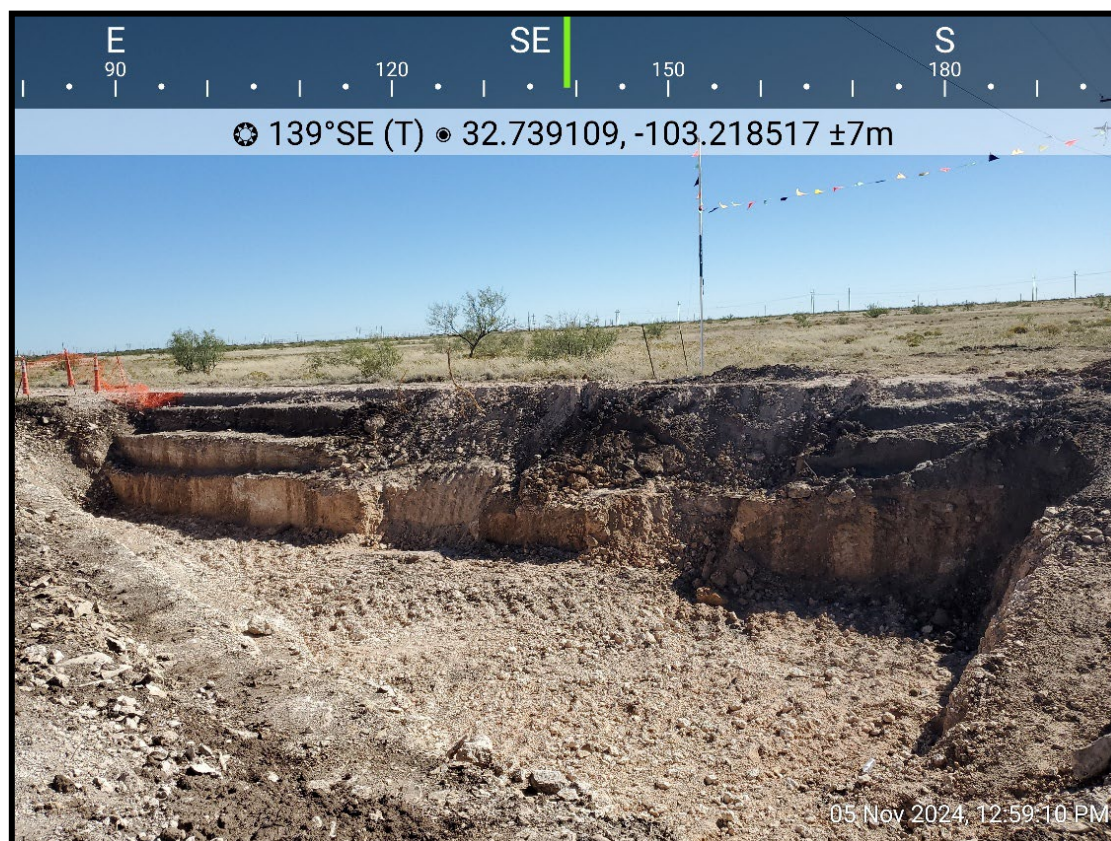


View of initial release extent, facing north (05/31/2024).

Project: North Hobbs Grayburg SA #23
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP2305843365



View of excavation extent during initial excavation activities, facing south (11/04/2024).



View of excavation extent during initial excavation activities, facing southeast (11/05/2024).

Project: North Hobbs Grayburg SA #23
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP2305843365



View of excavation extent subsequent to additional excavation activities, facing southeast (01/13/2025).



View of excavation extent subsequent to additional excavation activities, facing southwest (01/13/2025).

Project: North Hobbs Grayburg SA #23
Entity: Oxy USA, Inc.
NMOCD Incident ID: nAPP2305843365



View of excavation extent subsequent to backfill activities, facing northeast (02/06/2025).



View of excavation extent subsequent to backfill activities, facing west (02/06/2025).



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 North Hobbs Grayburg SA #23
 Oxy USA, Inc.
 Lea County, New Mexico
 Ensolum Project No. 03B1417185

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 Soil Sample Analytical Results												
FS01	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS02	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS03	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS04	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS05	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS06	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS07	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS08	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS09	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
FS10	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS11	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
FS12	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
FS13	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
FS14	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
FS15	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS16	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560
FS17	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
FS18	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	480
FS19	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS20	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
FS21	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
FS22	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	480
FS23	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS24	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS25	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS26	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
FS27	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
FS28	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
FS29	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS30	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
FS31	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
	1/13/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS32	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	528
FS33	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	528
FS34	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384

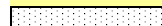
TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 North Hobbs Grayburg SA #23
 Oxy USA, Inc.
 Lea County, New Mexico
 Ensolum Project No. 03B1417185

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
FS35	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
FS36	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
FS37	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
FS38	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
FS39	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
FS40	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
FS41	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS42	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS43	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
FS44	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
FS45	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS46	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
FS47	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS48	11/8/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS49	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
FS50	11/8/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS51	11/8/2024	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS52	11/8/2024	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
FS53	11/8/2024	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS54	11/8/2024	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
FS55	11/8/2024	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS56	11/8/2024	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 North Hobbs Grayburg SA #23
 Oxy USA, Inc.
 Lea County, New Mexico
 Ensolum Project No. 03B1417185

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 Sidewall Soil Sample Analytical Results												
SW01	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	624
	1/13/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	11/8/2024	4 - 11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
SW02	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
		4 - 11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW03	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
		4 - 11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW04	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
		4 - 11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW05	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
		4 - 11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
SW06	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
		4 - 11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	768
	1/13/2025	4 - 11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW07	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
SW08	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
SW09	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
SW10	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW11	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
SW12	11/8/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

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

 Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



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

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
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												
Ramirez & Sons Caliche Pit	09/19/2024	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0

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



TABLE 3
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
Jones Pit 1
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												
Jones Pit 1	02/06/2025	NA	<0.050	<0.050	<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

November 13, 2024

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

RE: NORTH HOBBS GRAYBURG SA #23

Enclosed are the results of analyses for samples received by the laboratory on 11/08/24 14:20.

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 01 4' (H246840-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.41	121	2.00	9.05	
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69	
Total BTX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2024	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 02 4' (H246840-02)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	201	100	200	2.10		
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17		
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND						

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 03 4' (H246840-03)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/11/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 04 4' (H246840-04)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 05 4' (H246840-05)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 06 4' (H246840-06)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 07 4' (H246840-07)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10		
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17		
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND						

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 08 4' (H246840-08)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 09 4' (H246840-09)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 10 4' (H246840-10)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 11 4' (H246840-11)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 12 4' (H246840-12)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 13 4' (H246840-13)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 14 4' (H246840-14)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 15 4' (H246840-15)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/11/2024	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	11/11/2024	ND	201	100	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	173	86.5	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 16 4' (H246840-16)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	11/11/2024	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	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 17 4' (H246840-17)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/11/2024	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	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 18 4' (H246840-18)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	11/11/2024	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	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 19 4' (H246840-19)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/11/2024	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	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 20 4' (H246840-20)

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	11/11/2024	ND	2.41	121	2.00	9.05		
Toluene*	<0.050	0.050	11/11/2024	ND	2.40	120	2.00	8.76		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.52	126	2.00	8.76		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.41	123	6.00	7.69		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	11/11/2024	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	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 21 6' (H246840-21)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	11/11/2024	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	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 112 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 22 4' (H246840-22)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	11/11/2024	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	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 112 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 23 4' (H246840-23)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/11/2024	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	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 24 4' (H246840-24)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 25 4' (H246840-25)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEx	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	32.0	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 26 4' (H246840-26)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 27 4' (H246840-27)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 28 6' (H246840-28)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 29 6' (H246840-29)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 30 6' (H246840-30)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 31 4' (H246840-31)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEx	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	688	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 32 6' (H246840-32)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 33 6' (H246840-33)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 34 6' (H246840-34)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 35 4' (H246840-35)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	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	256	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	195	97.6	200	0.967	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	195	97.7	200	0.333	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 36 6' (H246840-36)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	432	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.0 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 37 6' (H246840-37)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	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	272	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 38 6' (H246840-38)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 39 4' (H246840-39)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 40 6' (H246840-40)

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	11/11/2024	ND	2.05	102	2.00	2.02		
Toluene*	<0.050	0.050	11/11/2024	ND	2.09	104	2.00	6.33		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.32	116	2.00	4.88		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	7.00	117	6.00	4.65		
Total BTEx	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	192	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 41 6' (H246840-41)

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	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 42 6' (H246840-42)

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	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 43 4' (H246840-43)

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	11/11/2024	ND	1.90	94.8	2.00	7.95	
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63	
Total BTEX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	11/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 44 4' (H246840-44)

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	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 45 6' (H246840-45)

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	11/11/2024	ND	1.90	94.8	2.00	7.95	
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63	
Total BTEX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 46 4' (H246840-46)

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	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 47 4' (H246840-47)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	1.90	94.8	2.00	7.95	
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63	
Total BTX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.2 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 48 6' (H246840-48)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 49 4' (H246840-49)

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	11/11/2024	ND	1.90	94.8	2.00	7.95	
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63	
Total BTEX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/11/2024	ND	384	96.0	400	8.00	

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 50 4' (H246840-50)

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	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 51 11' (H246840-51)

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	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.2 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 52 11' (H246840-52)

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	11/11/2024	ND	1.90	94.8	2.00	7.95	
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63	
Total BTEX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/11/2024	ND	384	96.0	400	8.00	

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 53 11' (H246840-53)

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	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.4 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 54 11' (H246840-54)

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	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 55 11' (H246840-55)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	207	104	200	0.414	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	188	93.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: FS 56 11' (H246840-56)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 01 0-4' (H246840-57)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 01 4-11' (H246840-58)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEx	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 02 0-4' (H246840-59)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 02 4-11' (H246840-60)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	1.90	94.8	2.00	7.95		
Toluene*	<0.050	0.050	11/11/2024	ND	1.91	95.6	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	1.90	95.2	2.00	9.55		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	5.65	94.2	6.00	9.63		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 03 0-4' (H246840-61)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	2.23	111	2.00	1.78		
Toluene*	<0.050	0.050	11/11/2024	ND	2.22	111	2.00	4.45		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.34	117	2.00	6.51		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.91	115	6.00	8.64		
Total BTEX	<0.300	0.300	11/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 03 4-11' (H246840-62)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.23	111	2.00	1.78	
Toluene*	<0.050	0.050	11/11/2024	ND	2.22	111	2.00	4.45	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.91	115	6.00	8.64	
Total BTEX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2024	ND	384	96.0	400	8.00	

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	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 04 0-4' (H246840-63)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.23	111	2.00	1.78	
Toluene*	<0.050	0.050	11/11/2024	ND	2.22	111	2.00	4.45	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.91	115	6.00	8.64	
Total BTEX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2024	ND	384	96.0	400	8.00		

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	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 04 4-11' (H246840-64)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.23	111	2.00	1.78	
Toluene*	<0.050	0.050	11/11/2024	ND	2.22	111	2.00	4.45	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.91	115	6.00	8.64	
Total BTEX	<0.300	0.300	11/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/12/2024	ND	480	120	400	10.5	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 05 0-4' (H246840-65)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78		
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64		
Total BTEx	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/12/2024	ND	480	120	400	10.5		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 05 4-11' (H246840-66)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78	
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/12/2024	ND	480	120	400	10.5	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 06 0-4' (H246840-67)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78	
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2024	ND	480	120	400	10.5		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 06 4-11' (H246840-68)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78		
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	11/12/2024	ND	480	120	400	10.5		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 07 0-4' (H246840-69)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78		
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/12/2024	ND	480	120	400	10.5		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 08 0-4' (H246840-70)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78		
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64		
Total BTEx	<0.300	0.300	11/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	112	16.0	11/12/2024	ND	480	120	400	10.5		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 09 0-4' (H246840-71)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78		
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/12/2024	ND	480	120	400	10.5		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 10 0-4' (H246840-72)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78		
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64		
Total BTEx	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/12/2024	ND	480	120	400	10.5		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 11 0-4' (H246840-73)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78	
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/12/2024	ND	480	120	400	10.5	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/08/2024	Sampling Date:	11/08/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SW 12 0-4' (H246840-74)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.23	111	2.00	1.78		
Toluene*	<0.050	0.050	11/12/2024	ND	2.22	111	2.00	4.45		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.34	117	2.00	6.51		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.91	115	6.00	8.64		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2024	ND	480	120	400	10.5		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	202	101	200	1.94	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	191	95.3	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO										ANALYSIS REQUEST									
Project Manager: Beaux Jennings				P.O. #:										<div style="display: flex; flex-direction: column; align-items: center;"> <div>BTEX 8021B</div> <div>TPH 8015M</div> <div>Chloride 4500</div> <div>Hold</div> </div>									
Address: 601 N. Marienfeld St. STE 400				Company: OXY USA																			
City: Midland State: TX Zip: 79701				Attn: Wade Diltrich																			
Phone #: (210)219-8858 Email: bjennings@ensolum.com				Address:																			
Project #: 030147185 Project Owner:				City:																			
Project Name: North Hobbs Grayburg #23				State: Zip:																			
Project Location:				Phone #:																			
Sampler Name: Kaoru Shimada, Nicholas Christakos				Email:																			

Lab I.D.	Sample I.D.	Sample Depth (feet)	(GRAB OR C/COMP)	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500	Hold
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
H246840	FS01	4	C	1		X					X		11-8-24	1156	X	X	X		
	FS02	4	C	1		X					X		11-8-24	1340	X	X	X		
	FS03	7	C	1		X					X		11-8-24	1157	X	X	X		
	FS04		C	1		X					X		11-8-24	1159	X	X	X		
	FS05		C	1		X					X		11-8-24	1200	X	X	X		
	FS06		C	1		X					X		11-8-24	1202	X	X	X		
	FS07		C	1		X					X		11-8-24	1204	X	X	X		
	FS08		C	1		X					X		11-8-24	1542	X	X	X		
	FS09		C	1		X					X		11-8-24	1344	X	X	X		
	FS10	4	C	1		X					X		11-8-24	1206	X	X	X		

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Relinquished By: Kaoru Shimada	Date: 11-8-24 Time: 1420	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: bjennings@ensolum.com, klowery@ensolum.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 30 Corrected Temp. °C: 30	Sample Condition: Cool Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]	REMARKS: Paykey/AFE/NonAFE: 3-Day TAT 3-Day TAT rush
			Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition	
			Thermometer ID: #140 Correction Factor: -0.5°C -0.6°C	

FORM-006 R 3.2 10/07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO				ANALYSIS REQUEST												
Company Name: Ensolum, LLC Project Manager: Beaux Jennings				P.O. #:												
Address: 601 N. Marlenfeld St. STE 400				Company: OXY USA												
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich												
Phone #: (210)219-8858 Email: bjennings@ensolum.com				Address:												
Project #: 03B1417185 Project Owner:				City:												
Project Name: North Hobbs Grayburg SA#H2J				State: Zip:												
Project Location:				Phone #:												
Sampler Name: Kaoru Shimada, Nicolas Christakos				Email:												
FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	Sample Depth (feet)	(GRAB OR COMPOUND) CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	BTX 8021B	TPH 8015M	Chloride 4500	Hold
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE						
H246840	F3 11	4	C 1		X					X	11-8-24	1207	X	X	X	
	F3 12	7	A 1		X					X	1	1211	1	1	1	
	F3 13											1210				
	F3 14											1209				
	F3 15											1346				
	F3 16											1348				
	F3 17											1213				
	F3 18											1213				
	F3 19											1236				
	F3 20		C 1		X					X	11-8-24	1350	X	X	X	

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

Relinquished By: Kaoru Shimada		Date: 11-8-24 Time: 1420	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:		Date:	Received By:	All Results are emailed. Please provide Email address: bjennings@ensolum.com, klowery@ensolum.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 36 Corrected Temp. °C: 3.0	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>y.e.</i>
				REMARKS: Paykey/APE/NonAPE: 3-day TAT rush
				Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Rush <input checked="" type="checkbox"/> Cool Intact Observed Temp. °C: Thermometer ID #115 #140 Correction Factor +0.5°C -0.6°C
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

† 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

[illegible]

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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Page 82 of 84

Company Name: ENSOLUM, LLC										BILL TO										ANALYSIS REQUEST																			
Project Manager: Kelly Lowery										P.O. #:										<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8021B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 4500</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEx 8015M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Hold</div> </div>																			
Address: 601 N. Marienfeld St. STE 400										Company: Oxy USA, Inc.																													
City: Midland State: TX Zip: 79701										Attn: Wade Dittrich																													
Phone #: 214-733-3165 Email: klowery@ensolum.com										Address:																													
Project #: 03B/41795 Project Owner:										City:																													
Project Name: North Hobbs Grayburg SA #23										State: Zip:																													
Project Location:										Phone #:																													
Sampler Name: Kaoru Shimada										Email:																													
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		TPH 8021B		Chloride 4500		BTEx 8015M		Hold	
H246840																																							
57		FS 51		11		C 1																																	
52		FS 52		11		1 1																																	
53		FS 53		11		1 1																																	
54		FS 54		11		1 1																																	
55		FS 55		11		1 1																																	
56		FS 56		11		1 1																																	
57		SW 01		0-4		1 1																																	
58		SW 01		4-11		1 1																																	
59		SW 02		0-4		1 1																																	
60		SW 02		4-11		C 1																																	

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 All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.
 In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated persons or otherwise.

Relinquished By:		Date:		Received By:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Kaoru Shimada		11-8-24		[Signature]		All Results are emailed. Please provide Email address:			
Time:		1420		[Signature]		klowery@ensolum.com			
Relinquished By:		Date:		Received By:		REMARKS: Paykey/AFE/NonAFE:			
						3-Day TAT rush			
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:		Turnaround Time:	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		(Initials)		Standard <input type="checkbox"/> Bacteria (only) Sample Condition	
		3.6		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		[Signature]		Rush <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C	
		3.0		<input type="checkbox"/> No <input type="checkbox"/> No				Thermometer ID #4410 #140	
								Correction Factor -0.6°C	
								<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Kelly Lowery				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>TPH 8021B</div> <div>Chloride 4500</div> <div>BTEX 8015M</div> <div>Hold</div> </div>											
Address: 601 N. Marinfeld St. STE 400				Company: Oxy USA, Inc.															
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich															
Phone #: 214-733-3165 Email: klowery@ensolum.com				Address:															
Project #: 03B1417185 Project Owner:				City:															
Project Name: North Hobbs Grayburg SA #23				State: Zip:															
Project Location:				Phone #:															
Sampler Name: Kaoru Shimada				Email:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	(C)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING		DATE					TIME			
					GROUNDWATER	WASTEWATER	SOIL	OIL	OTHER:	ACID/BASE:								ICE / COOL	OTHER:
H246840	SW03	0-4	C 1				X				X								
62	SW03	4-11	1 1				1				1								
63	SW04	0-4	1 1				1				1								
64	SW04	4-11																	
65	SW05	0-4																	
66	SW05	4-11																	
67	SW06	0-4																	
68	SW06	4-11																	
69	SW07	0-4																	
70	SW08	0-4	C 1				X				X								
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		Time:				3-Day TAT													
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Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials)		Rush <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C											
		36				[Signature]		Thermometer ID #140											
		30						Correction Factor -0.6°C											
								<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C											

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																																																																																																																																				
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 15, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NORTH HOBBS GRAYBURG SA #23

Enclosed are the results of analyses for samples received by the laboratory on 01/14/25 16:31.

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".

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:	01/14/2025	Sampling Date:	01/13/2025
Reported:	01/15/2025	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO., NM		

Sample ID: FS 31 5' (H250197-01)

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	01/14/2025	ND	1.76	88.2	2.00	9.20		
Toluene*	<0.050	0.050	01/14/2025	ND	1.98	99.2	2.00	6.36		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	5.38		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.29	105	6.00	6.15		
Total BTEX	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/15/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2025	ND	202	101	200	5.61	
DRO >C10-C28*	<10.0	10.0	01/15/2025	ND	199	99.3	200	6.89	
EXT DRO >C28-C36	<10.0	10.0	01/15/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/14/2025	Sampling Date:	01/13/2025
Reported:	01/15/2025	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO., NM		

Sample ID: SW 01 0-4' (H250197-02)

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	01/14/2025	ND	1.76	88.2	2.00	9.20		
Toluene*	<0.050	0.050	01/14/2025	ND	1.98	99.2	2.00	6.36		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	5.38		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.29	105	6.00	6.15		
Total BTEx	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/15/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2025	ND	202	101	200	5.61	
DRO >C10-C28*	<10.0	10.0	01/15/2025	ND	199	99.3	200	6.89	
EXT DRO >C28-C36	<10.0	10.0	01/15/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	01/14/2025	Sampling Date:	01/13/2025
Reported:	01/15/2025	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO., NM		

Sample ID: SW 06 4-11' (H250197-03)

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	01/14/2025	ND	1.76	88.2	2.00	9.20		
Toluene*	<0.050	0.050	01/14/2025	ND	1.98	99.2	2.00	6.36		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	5.38		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.29	105	6.00	6.15		
Total BTEx	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/15/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2025	ND	202	101	200	5.61	
DRO >C10-C28*	<10.0	10.0	01/15/2025	ND	199	99.3	200	6.89	
EXT DRO >C28-C36	<10.0	10.0	01/15/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																			
Project Manager: Kelly Lowery				P.O. #: 0xy USA, Inc.																							
Address: 601 N. Marlenfeld St. STE 400				Company: Ensolum, LLC - KL																							
City: Midland State: TX Zip: 79701				Attn: Wade D. Hirsch																							
Phone #: 214-733-3165 Email: klowery@ensolum.com				Address:																							
Project #: 03B14785 Project Owner:				City:																							
Project Name: North Hobbs Grayburg 5A #23				State: Zip:																							
Project Location: Lea County, NM				Phone #: 575 390 2828																							
Sampler Name: Kelly Lowery				Email: Wade.D.Hirsch@ensolum.com																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	Sample Depth (feet)	(GRAB OR C/COMP)	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL											OTHER	DATE	TIME		
H25097	FS31	5'	C	1			X					X	1/13/25	1410	X	X	X	BTEX 8021 B TPH 8015 M Chloride 4500									
	SW01	0-4'	C	1			X					X	1/13/25	1400	X	X	X										
	SW06	4-11'	C	1			X					X	1/13/25	1405	X	X	X										
N/A 1/13/25 KL																											
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.																											
All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.																											
In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																											
Relinquished By: Kelly			Date: 1/13/25		Received By: Sam Miller			Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:				All Results are emailed. Please provide Email address: klowery@ensolum.com / wade.d.hirsch@ensolum.com KL Wade.D.Hirsch@ensolum.com											
Time: 1:35																											
Relinquished By: Sam Miller			Date: 1/14/25		Received By: Brockie			REMARKS: Paykey/AFE/NonAFE:										24 hr TAT									
Time: 1:03																											
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			Observed Temp. °C: 3.5		Sample Condition: Cool Intact			CHECKED BY: (Initials) SR				Refrigerated Temp. °C: 2.9				Bacteria (only) Sample Condition: <input type="checkbox"/> Yes <input type="checkbox"/> No											
			Corrected Temp. °C: 2.9		<input type="checkbox"/> Yes <input type="checkbox"/> No							Thermometer ID: #113				Correction Factor: -0.6											
																<input type="checkbox"/> Yes <input type="checkbox"/> No											
																<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C:											

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



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

September 25, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RAMIREZ & SONS CALICHE PIT

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/20/2024
 Reported: 09/25/2024
 Project Name: RAMIREZ & SONS CALICHE PIT
 Project Number: 03B1417168
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

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

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

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

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

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476										BILL TO										ANALYSIS REQUEST									
Company Name: Ensolum, LLC										P.O. #:										<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> Company: Ensolum, LLC <i>Oxy USA, Inc</i> Attn: Wade Dittich Address: City: State: Zip: Phone #: 575 390 2828 Email: </div> <div style="width: 30%; font-size: 2em; text-align: center;"> BTEX 8021B TPH 8015H Chloride 4500 </div> </div>									
Project Manager: Kelly Lowery										Company: Ensolum, LLC																			
Address: 601 N. Marland St. STE 400										Attn: Wade Dittich																			
City: Midland State: TX Zip: 79701										Address:																			
Phone #: 214-733-3165 Email: klowery@ensolum.com										City:																			
Project #: 0381417168 Project Owner: -										State: Zip:																			
Project Name: Ramirez + Sons Caliche Pit										Phone #: 575 390 2828																			
Project Location: Lea County, NM										Email:																			
Sampler Name: Kelly Lowery																													

FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING		DATE	TIME	BTEX 8021B	TPH 8015H	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
H245739	Ramirez + Sons Caliche Pit	NA	C	1			X						X		9/19/24	1115	X	X	X
															9/19/24	16			

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All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.

In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 9/19/24 Time: 1200		Received By: 		Add'l Phone #:	
Relinquished By: 		Date: 9-20-24 Time: 1303		Received By: 		REMARKS: Paykey/AFE/NonAFE:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 5.0 Corrected Temp. °C 4.4		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 	
		Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition		Thermometer ID #113-1140 Correction Factor -0.5°C		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

9/20/24

FORM-006 R 3.2 10/07/21

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

February 11, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NORTH HOBBS GRAYBURG SA #23

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 12:10.

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:	02/10/2025	Sampling Date:	02/06/2025
Reported:	02/11/2025	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO., NM		

Sample ID: JONES PIT 1 (H250785-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	1.82	90.9	2.00	5.81	
Toluene*	<0.050	0.050	02/10/2025	ND	1.88	94.1	2.00	5.75	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	1.79	89.3	2.00	5.68	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	5.25	87.5	6.00	5.61	
Total BTX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/11/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2025	Sampling Date:	02/06/2025
Reported:	02/11/2025	Sampling Type:	Soil
Project Name:	NORTH HOBBS GRAYBURG SA #23	Sampling Condition:	Cool & Intact
Project Number:	03B1417185	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO., NM		

Sample ID: JONES PIT 2 (H250785-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	1.82	90.9	2.00	5.81		
Toluene*	<0.050	0.050	02/10/2025	ND	1.88	94.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	1.79	89.3	2.00	5.68		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	5.25	87.5	6.00	5.61		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 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	<16.0	16.0	02/11/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	184	91.9	200	0.483	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	184	92.1	200	0.688	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 62.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Kelly Lowery				P.O. #:															
Address: 601 N. Marienfeld St. STE 400				Company: OXY USA, Inc.															
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich															
Phone #: 214-733-3165				Email: <i>klowery@ensolum.com</i>															
Project #: 03B1417185				Address:															
Project Name: North Hobbs Grayburg SA #23				City:															
Project Location:				State: Zip:															
Sampler Name: Kaoru Shimada				Phone #:															
Email:																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		BTEX 8021 B	TPH 8015 M	Chloride 4500				
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL:				OTHER:	DATE	TIME	
<i>H250785</i>																			
	1 Jones Pit 1	NA	C	1			X					X		2/6/25	954	X	X	X	
	2 Jones Pit 2	NA	C	1			X					X		2/6/25	1029	X	X	X	
N I F E S K 2-6-2025																			

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

Relinquished By:	Date: <i>2-10-25</i>	Received By: <i>Tamara Delaf...</i>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <i>1210</i>		All Results are emailed. Please provide Email address: <i>klowery@ensolum.com</i>	
Relinquished By:	Date:	Received By:	REMARKS: Paykey/AFE/NonAFE:	
	Time:		<i>24hr TAT</i>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <i>1.9</i> Corrected Temp. °C <i>2.2</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>TO.</i>	Turnaround Time: Standard <input type="checkbox"/> Bacteria (only) Sample Condition <i>Rush</i> <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C Thermometer ID <i>#113 #140</i> Correction Factor <i>-0.3°C</i> <i>TO: 2/10/25</i>
				<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

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

QUESTIONS

Action 438697

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 438697
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2305843365
Incident Name	NAPP2305843365 NORTH HOBBS GRAYBURG SA 23 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	NORTH HOBBS GRAYBURG SA 23
Date Release Discovered	02/24/2023
Surface Owner	State

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: Other Tank (Any) Produced Water Released: 200 BBL Recovered: 110 BBL Lost: 90 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	FRACK TANK PULLED APART BY CATTLE, 10 POUND BRINE

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QUESTIONS, Page 2

Action 438697

QUESTIONS (continued)

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QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 03/04/2025
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QUESTIONS, Page 3

Action 438697

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 438697
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between ½ and 1 (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	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	768
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	11/06/2024
On what date will (or did) the final sampling or liner inspection occur	01/13/2025
On what date will (or was) the remediation complete(d)	01/13/2025
What is the estimated surface area (in square feet) that will be reclaimed	10930
What is the estimated volume (in cubic yards) that will be reclaimed	2185
What is the estimated surface area (in square feet) that will be remediated	10930
What is the estimated volume (in cubic yards) that will be remediated	2185
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 438697

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	438697
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 03/04/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 438697

QUESTIONS (continued)

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

QUESTIONS

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

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QUESTIONS, Page 6

Action 438697

QUESTIONS (continued)

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

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	419078
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/13/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

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	10930
What was the total volume (cubic yards) remediated	2185
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	10930
What was the total volume (in cubic yards) reclaimed	2185
Summarize any additional remediation activities not included by answers (above)	NA
<i>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>	
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: 03/04/2025

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Action 438697

QUESTIONS (continued)

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QUESTIONS

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

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CONDITIONS

Action 438697

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvez	None	6/6/2025