State of New Mexico
Oil Conservation Division

Incident ID	nAPP2314344835
District RP	2RP-4962
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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.

Printed Name: Wade Dittrich Title: Environmental Advisor

Signature: Wade Dittrich Date: 6-7-23

email: wade_dittrich@oxy.com Telephone: 575-390-2828

OCD Only

Received by: Jocelyn Harimon Date: 06/07/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 11/7/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

ENSOLUM

CLOSURE REPORT

Property:

Federal 23 CTB

Eddy County, New Mexico
32.3715 N, 103.7424 W
RP No. 2RP-4962
API No. 30-015-26377
Incident ID No. nAPP2314344835

June 7, 2023
Ensolum Project No. 03B1417057

Prepared for:

Oxy USA Inc.
P.O. Box 4294
Houston, TX 77210
Attn: Mr. Wade Dittrich

Prepared by:

Beaux Jennings
Senior Project Manager

Heather Holthaus
Senior Project Manager

ENSOLUM

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LIST OF APPENDICES

ENSOLUM

CLOSURE REPORT

Federal 23 CTB

Eddy County, New Mexico
32.3715 N, 103.7424 W
RP No. 2RP-4962
API No. 30-015-26377
Incident ID No. nAPP2314344835

Ensolum Project No. 03B1417057

1.0 INTRODUCTION

1.1 Executive Summary

- On August 15, 2018, a release of crude oil and produced water occurred from the water tank as a result of a communication failure at the Federal 23 CTB, hereinafter referred to as the "Site". Approximately 15 barrels (bbls) of crude oil and 25 bbls of produced water were released within the secondary containment for the tank, impacting an area approximately 100 feet long by 20 feet wide, with approximately 15 bbls of crude oil and 20 bbls of produced water recovered. A portion of the secondary containment that was impacted was lined, with an area of approximately 50 feet long by 45 feet wide that was unlined.

- On March 7, 2023, Ensolum arrived on-Site and collected a total of seven composite soil samples from seven locations (FS-1 through FS-7), at a depth of 0-0.25 feet below ground surface (bgs), within the unlined portion of the release area.

- Based on the laboratory analytical data, additional excavation activities were conducted in the vicinity of confirmation soil sample locations FS-5 and FS-7. On April 13, 2023, Ensolum arrived on-Site and collected a total of two composite soil samples from two locations on the excavation floor (FS-5 and FS-7), subsequent to completion of additional excavation activities. The final composite floor samples were collected at a depth of one foot bgs.

- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04740-POD-1) was installed on April 19, 2023 by Ensolum personnel. The soil boring was installed on Oxy property, at the Site. The soil boring was installed to 110 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 110 feet bgs at the Site.

- The primary objective of the closure activities was to reduce chemical of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure Criteria for Soils Impacted by a Release using the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.

- The final excavation area measured approximately 50 feet long by 45 feet wide. The maximum depth of the excavation measured approximately one foot bgs.

- Subsequent to sampling activities, a liner inspection was conducted to determine the integrity of the existing liner within the containment area. Based on visual inspection of multiple areas within the containment area, the liner remains intact and free of damage.

- Based on the laboratory analytical results, the final composite soil samples collected from the excavation did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria.

- Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. A liner was placed in the excavation area and molded to the existing liner of the tank battery area. The area was then backfilled with clean fill material, and then contoured to the original surrounding grade The spill area was located within the tank secondary containment, on a caliche pad, and does not require reclamation or revegetation at this time.

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

1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Federal 23 CTB
Location:	Eddy County, New Mexico 32.3715 N, 103.7424 W
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Topographic Map depicting the location of the Site is included as **Figure 1**, the Site Vicinity Map is included as **Figure 2,** the Site Map indicating the locations of composite soil samples is included as **Figure 3,** and the Closure Criteria Map is included as **Figure 4** in **Appendix A**.

1.3 Project Objective

The primary objective of the closure activities was to reduce chemicals of concern (COC) concentrations in the on-Site soils to below 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 NMAC 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. 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.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other significant watercourse.

- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.

- The Site is not located within 300 feet from an occupied 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 (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.
- The Site is located within the City of Carlsbad municipal boundary.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's 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 Bureau of Land Management (BLM), the Site is not located within an unstable area.
- The Site is noted to be located within an area of minimal flood hazard.

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

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
>100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 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 August 15, 2018, a release of crude oil and produced water occurred from the water tank as a result of a communication failure at the Site. Approximately 15 bbls of crude oil and 25 bbls of produced water were released within the secondary containment for the tank, impacting an area approximately 100 feet long by 20 feet wide, with approximately 15 bbls of crude oil and 20 bbls of produced water recovered. A portion of the secondary containment that was impacted was lined, with an area of approximately 50 feet long by 45 feet wide that was unlined.

On March 7, 2023, Ensolum arrived on-Site and collected a total of seven composite soil samples from seven locations (FS-1 through FS-7), at a depth of 0-0.25 feet bgs, within the unlined portion of the release area.

Based on the laboratory analytical data, additional excavation activities were conducted in the vicinity of confirmation soil sample locations FS-5 and FS-7. On April 13, 2023, Ensolum arrived on-Site and collected a total of two composite soil samples from two locations on the excavation floor (FS-5 and FS-7), subsequent to completion of additional excavation activities. The final composite floor samples were collected at a depth of one foot bgs.

Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04740-POD-1) was installed on April 19, 2023 by Ensolum personnel. The soil boring was installed on Oxy property, at the Site. The soil boring was installed to 110 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 110 feet bgs at the Site.

Based on the laboratory analytical data of the final excavation soil samples, no additional excavation was required. Subsequent to the results of the final composite soil sampling, the excavated soils were removed and taken off-Site for proper disposal.

The final excavation area measured approximately impacted area measured approximately 50 feet long by 45 feet wide. The maximum depth of the excavation measured approximately one foot bgs.

The lithology encountered during the completion of sampling activities consisted primarily of caliche.

Figure 3 identifies approximate soil sample locations and approximate dimensions of the impacted area with respect to the Site (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's composite soil sampling program included the collection of a total of nine composite soil samples from seven locations within the excavation area (FS-1 through FS-7). The composite soil samples were collected at a depths ranging from zero to one foot bgs.

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 for standard laboratory analysis.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX utilizing Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO utilizing EPA SW-846 Method 8015M, and chloride utilizing EPA Method 4500-Cl B.

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

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO, TPH GRO/DRO/MRO, and chloride concentrations associated with the excavation floor (FS-1 through FS-7) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the composite soil samples are below the laboratory sample detection limits (SDLs) and/or the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).

- Laboratory analytical results indicate that total BTEX concentrations for the composite soil samples below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 50 mg/kg.

- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the final composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg for depth to groundwater >100 feet.

- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.

- Laboratory analytical results indicate chloride concentrations for the final composite soil samples are below the applicable NMOCD Closure Criteria of 20,000 mg/kg for depth to groundwater >100 feet.

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

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. A liner was placed in the excavation area and molded to the existing liner of the containment area. The area was then backfilled with clean fill material, and then contoured to the original surrounding grade. The spill area was located within the tank secondary containment, on a caliche pad, and does not require reclamation or revegetation at this time.

8.0 FINDINGS AND RECOMMENDATION

- On August 15, 2018, a release of crude oil and produced water occurred from the water tank as a result of a communication failure at the Site. Approximately 15 bbls of crude oil and 25 bbls of produced water were released within the secondary containment for the tank, impacting an area approximately 100 feet long by 20 feet wide, with approximately 15 bbls of crude oil and 20 bbls of produced water recovered. A portion of the secondary containment that was impacted was lined, with an area of approximately 50 feet long by 45 feet wide that was unlined.

- On March 7, 2023, Ensolum arrived on-Site and collected a total of seven composite soil samples from seven locations (FS-1 through FS-7), at a depth of 0-0.25 feet bgs, within the unlined portion of the release area.

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- Subsequent to sampling activities, a liner inspection was conducted to determine the integrity of the existing liner within the containment area. Based on visual inspection of multiple areas within the containment area, the liner remains intact and free of damage.

- Based on the laboratory analytical results, the final composite soil samples collected from the excavation did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria.

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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 at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

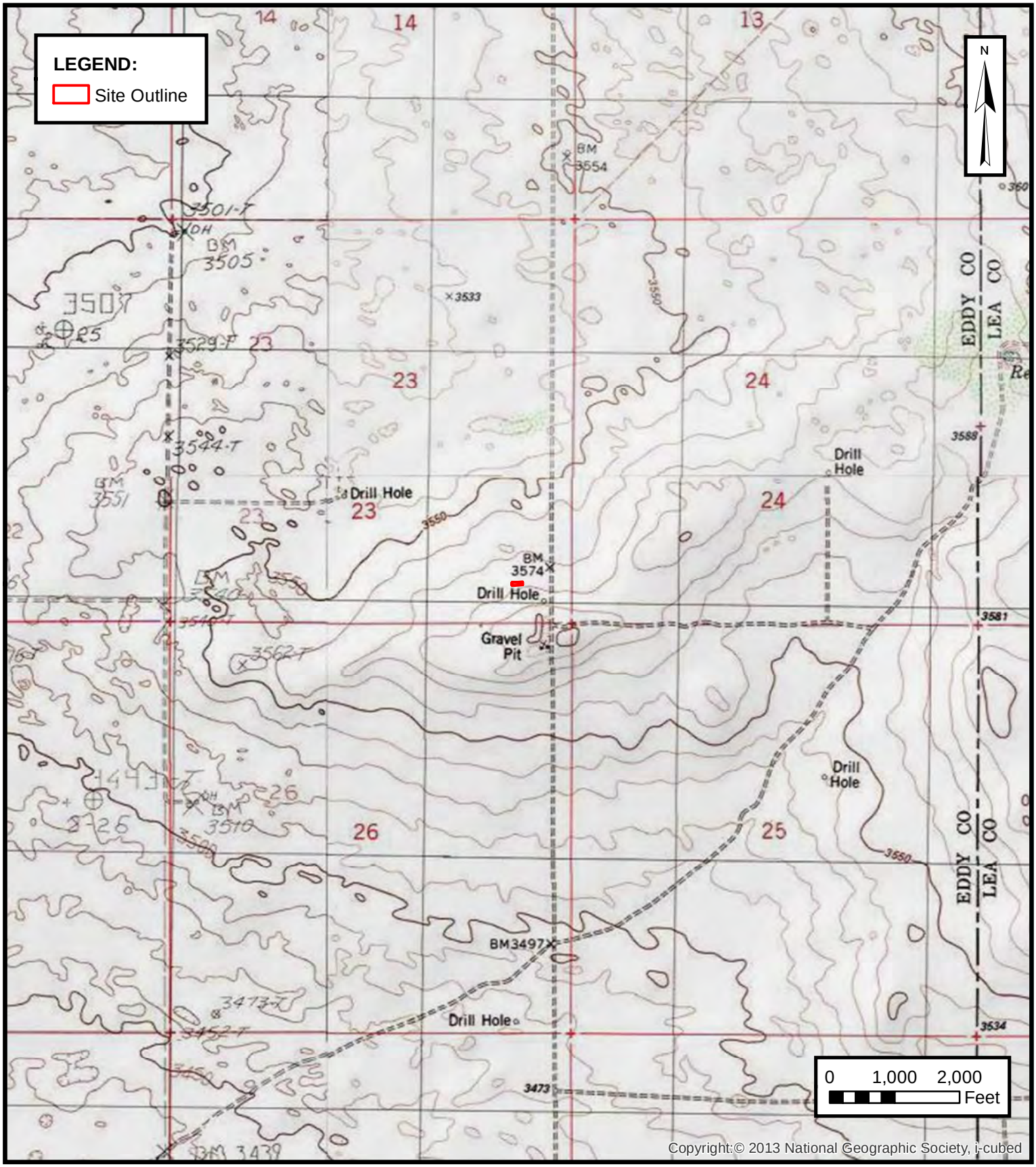
9.3 Reliance

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

ENSOLUM

APPENDIX A

Figures



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

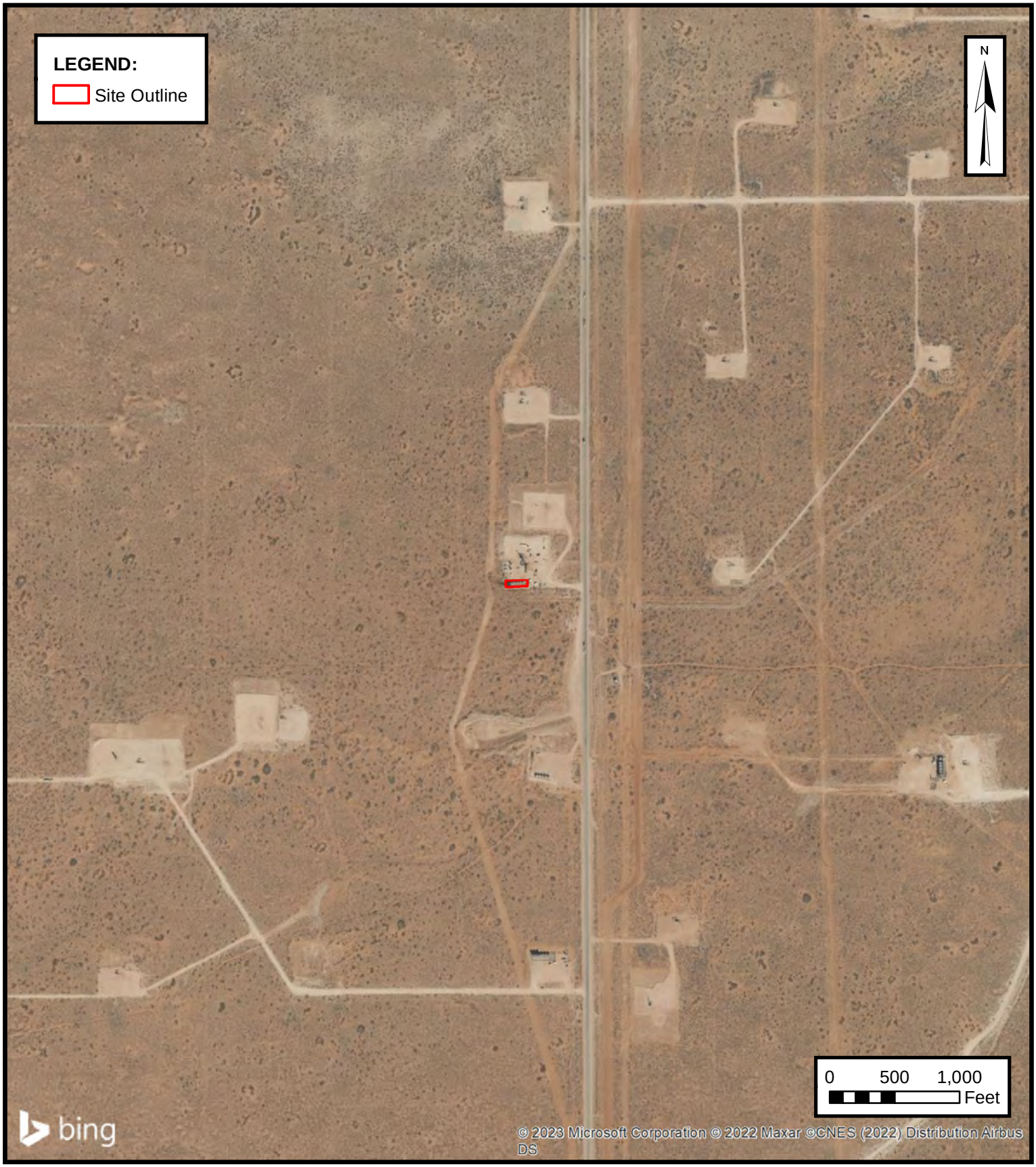
TOPOGRAPHIC MAP

OXY USA INC.
FEDERAL 23 CTB
Eddy County, New Mexico
32.3715° N, 103.7424° W

PROJECT NUMBER: 03B1417057

FIGURE

1



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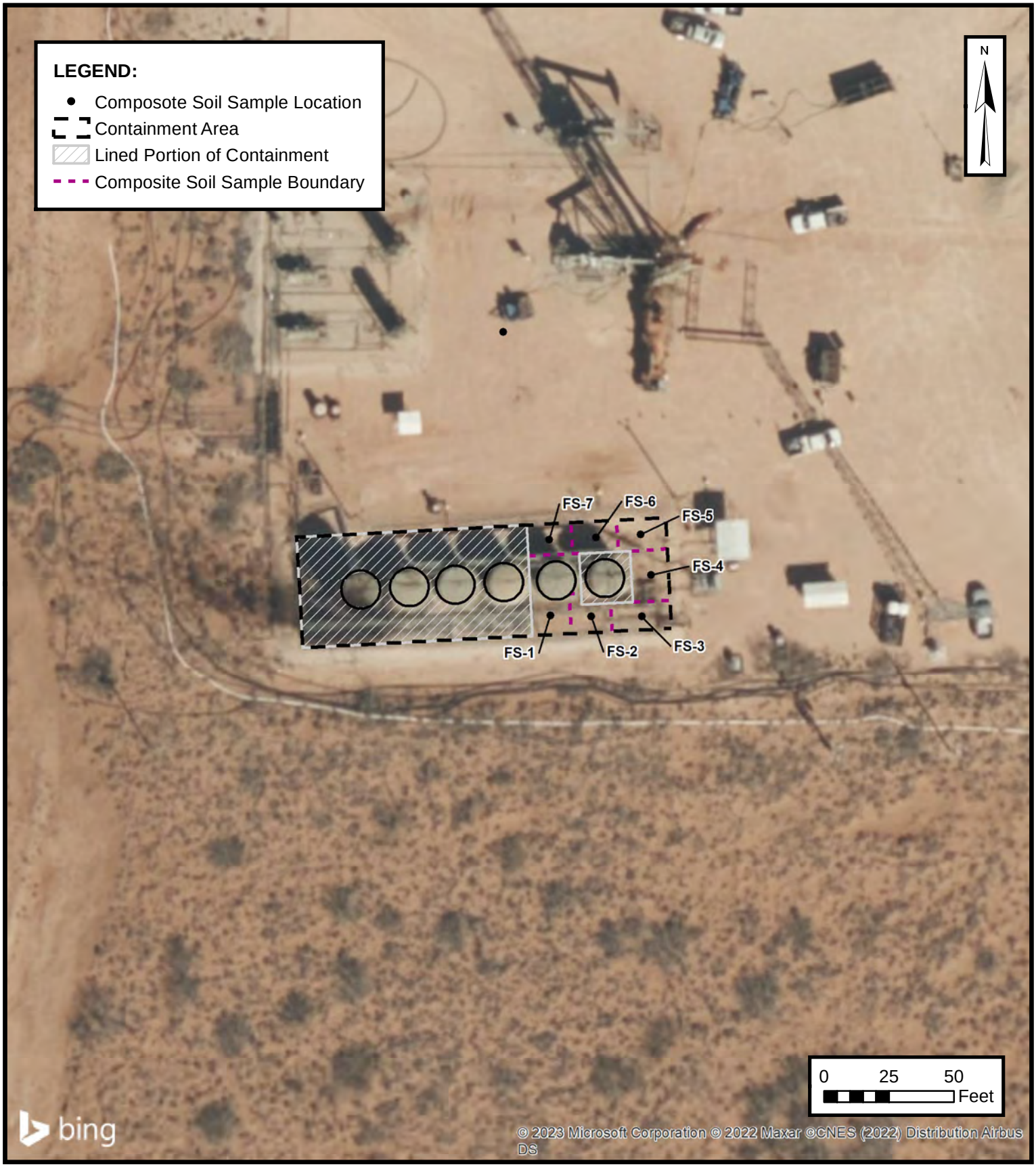
Environmental, Engineering and Hydrogeologic Consultants

SITE VICINITY MAP

OXY USA INC.
FEDERAL 23 CTB
Eddy County, New Mexico
32.3715° N, 103.7424° W

PROJECT NUMBER: 03B1417057

FIGURE
2



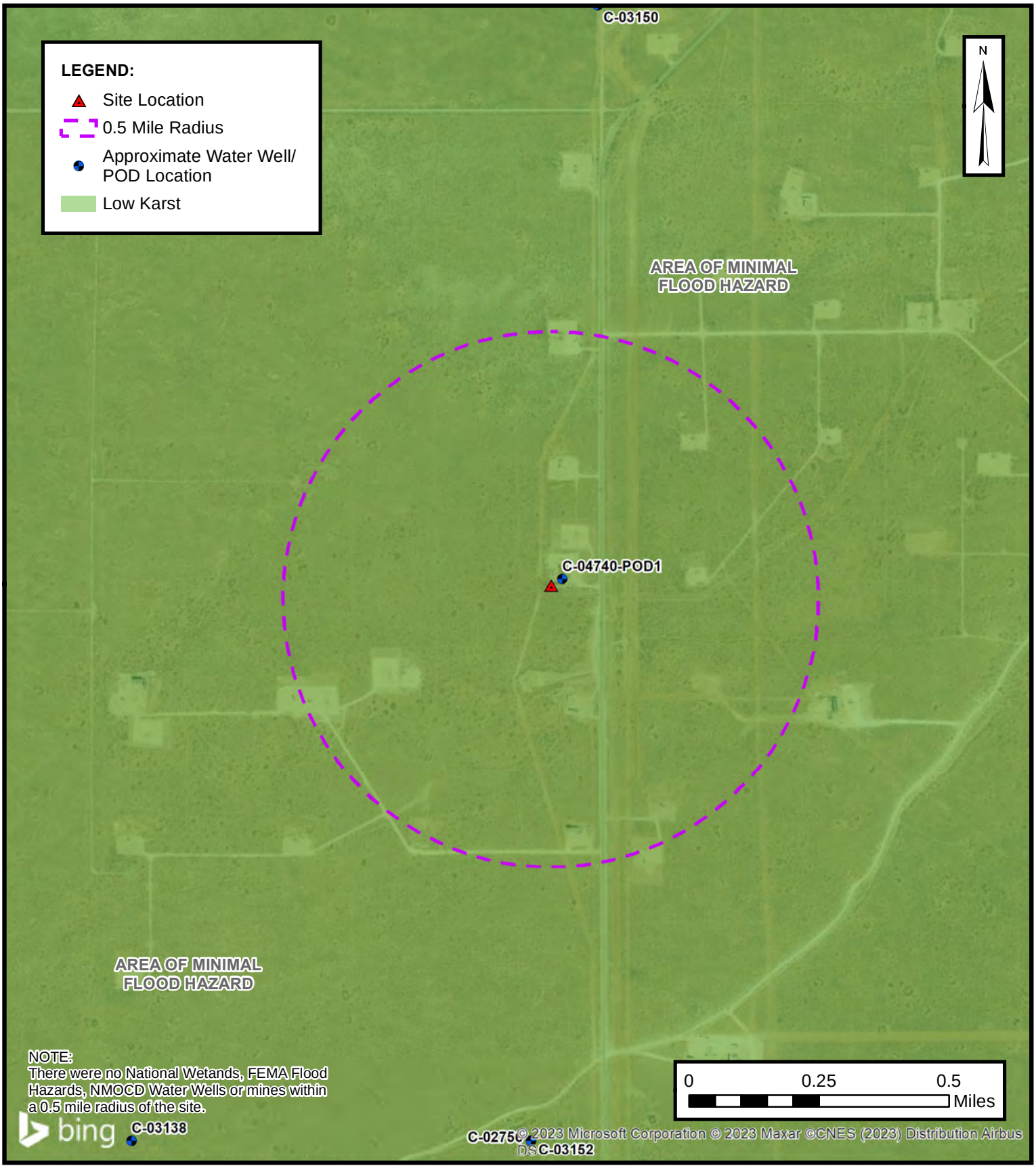
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

SITE MAP

OXY USA INC.
FEDERAL 23 CTB
Eddy County, New Mexico
32.3715° N, 103.7424° W

PROJECT NUMBER: 03B1417057

FIGURE
3



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Environmental, Engineering and Hydrogeologic Consultants

CLOSURE CRITERIA MAP

OXY USA INC.
FEDERAL 23 CTB
Eddy County, New Mexico
32.3715° N, 103.7424° W

PROJECT NUMBER: 03B1417057

FIGURE
4

ENSOLUM

APPENDIX B

Supporting Documentation

Beaux Jennings

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, May 24, 2023 4:22 PM
To: Beaux Jennings
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] Federal 23 CTB (Incident ID: nAPP2314344835)

[**EXTERNAL EMAIL**]

Beaux,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Wednesday, May 24, 2023 12:32 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Federal 23 CTB (Incident ID: nAPP2314344835)

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

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for a liner inspection that will be conducted at the Federal 23 CTB (Incident ID: nAPP2314344835) on Friday, May 26th.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

Client: Oxy USA Inc.
Project Name: Federal 23 CTB
Project Location: Eddy County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMAITON

Soil Boring / Well Number: SB-1 (C-04740-POD1)
Date Started: 04/19/2023
Project #: 03B1417057
Date Completed: 04/19/2023
Drawn By: Beaux Jennings
Drilling Company: West Texas Water Well Services
Approved By: Heather Holthaus
Driller: Russell Southerland
Geologist: Kelly Lowery
Sampler: Kelly Lowery
Boring Method: AR
Logged By: Kelly Lowery
Sampler Type: AR
Bore Hole Diameter: 6"
Screen: N/A
Casing Diameter: N/A
Total Depth: 110'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH
▽ AT COMPLETION
▼ AT WELL STABILIZATION

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)	BORING AND SAMPLING NOTES
Drill Cuttings	0' - Silty sand, fine-grained, caliche, reddish brown, dry, no odor		10						
	20' - Silty sand, fine-grained, dusky red, dry, no odor		20						
Drill Cuttings	30' - Silty sand, fine-grained, reddish brown, dry, no odor		30						
	40' - Silty sand, fine-grained, caliche, reddish brown, dry, no odor		40						
	50' - Silty sand, fine-grained, sandstone lense, reddish brown, dry, no odor		50						
	60' - Silty sand, very fine-grained, reddish brown, dry, no odor		60						
Drill Cuttings			70						

NR - No Recovery

ENSOLUM

Client: Oxy USA Inc.
Project Name: Federal 23 CTB
Project Location: Eddy County, New Mexico
Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMAITON

Soil Boring / Well Number: SB-1 (C-04740-POD1)
Date Started: 04/19/2023
Project #: 03B1417057
Date Completed: 04/19/2023
Drawn By: Beaux Jennings
Drilling Company: West Texas Water Well Services
Approved By: Heather Holthaus
Driller: Russell Southerland

Geologist: Kelly Lowery
Sampler: Kelly Lowery
Boring Method: AR
Logged By: Kelly Lowery
Sampler Type: AR
Bore Hole Diameter: 6"
Screen: N/A
Casing Diameter: N/A
Total Depth: 110'
Well Materials: N/A
Surface Completion: N/A

BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
GP - GEOPROBE
AR - AIR ROTARY

SAMPLER TYPE
CB - FIVE FOOT CORE BARREL
SS - DRIVEN SPLIT SPOON
ST - PRESSED SHELBY TUBE

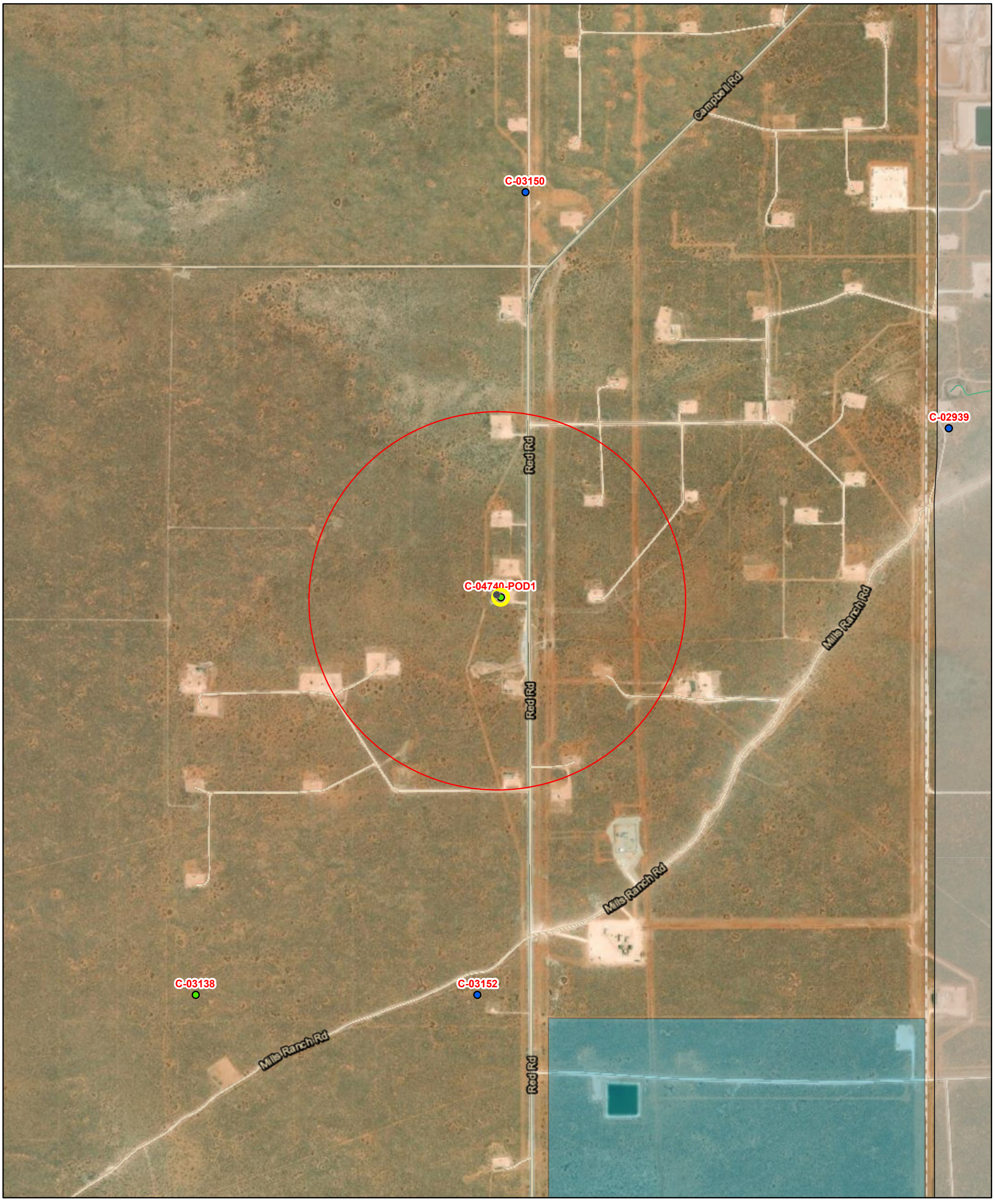
GROUNDWATER DEPTH
▽ AT COMPLETION
▼ AT WELL STABILIZATION

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)	BORING AND SAMPLING NOTES
Drill Cuttings	70' - Silty sand, very fine-grained, sandstone lense, reddish brown, dry, no odor		70						
	80' - Sandstone, fine-grained, pale red, dry, no odor		80						
	90' - Sandstone, fine-grained, weak red, dry, no odor		90						
Drill Cuttings	100' - Sandstone, very fine-grained, red, dry, no odor		100						
	110' - Silty sand, very fine-grained, small sandstone fragments, reddish brown, dry, no odor		110						

NR - No Recovery

ENSOLUM

OSE POD Locations Map



5/24/2023, 8:06:28 AM

GIS WATERS PODs
- Active
- Pending
- OSE District Boundary

Water Right Regulations
- Closure Area

New Mexico State Trust Lands
- Both Estates

NHD Flowlines
- Artificial Path
- Stream River
- SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Web Generated Map
Map is generated by web users.

New Mexico Office of the State Engineer
Water Right Summary

WR File Number: C 04740 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Agent: ENSOLUM LLC
Contact: BEAUX JENNINGS
User: OXY USA INC.
Contact: WADE DITTRICH

Documents on File

Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
746173	EXPL	2023-04-28	PMT	APR	C 04740 POD1	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 04740 POD1	NA		3	4	4	23	22S	31E	618328	3582299	SB-1

National Flood Hazard Layer FIRMette

FEMA

103°44'51"W 32°22'33"N

103°44'14"W 32°22'2"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/24/2023 at 9:20 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Active Mines in New Mexico

5/24/2023, 8:15:50 AM

Land Ownership

BLM

PLSS Second Division

PLSS First Division

1:1,128

0 0.01 0.02 0.04 mi

0 0.02 0.04 0.07 km

U.S. BLM, Maxar, Microsoft, BLM

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

U.S. Fish and Wildlife Service
National Wetlands Inventory

NWI Map

May 24, 2023

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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

OCD Wells and Landowners Map

5/24/2023, 8:13:17 AM

Wells - Large Scale

Oil, Active

Mineral Ownership

A-All minerals are owned by U.S.

Land Ownership

BLM

PLSS Second Division

PLSS First Division

1:1,128

0 0.01 0.02 0.04 mi

0 0.02 0.04 0.07 km

U.S. BLM, Maxar, Microsoft, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., BLM

New Mexico Oil Conservation Division

ENSOLUM

APPENDIX C

Photographic Documentation

View of the final excavation area, facing southwest.

View of the final excavation area, facing southwest.

View of liner inspection on central and western portion of tank battery.

View of newly installed liner on eastern portion of tank battery.

ENSOLUM

APPENDIX D

Tables

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Federal 23 CTB
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417057

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 (>100 feet)			**10**	**NE**	**NE**	**NE**	**50**	**1,000**		**NE**	**2,500**	**20,000**
Floor Sample Analytical Results												
FS-1	03/07/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	**8,930**
FS-2	03/07/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	**4,800**
FS-3	03/07/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	**1,140**
FS-4	03/07/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	**11.3**		<10.0	**11.3**	**3,120**
FS-5	~~03/07/2023~~	~~0 - 0.25~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.150~~	~~<0.300~~	**4,290**		**704**	**4,994**	**1,420**
	04/13/2023	1	NS					**40.6**		**24.4**	**65.0**	NS
FS-6	03/07/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	**1,680**
FS-7	~~03/07/2023~~	~~0 - 0.25~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.150~~	~~<0.300~~	**483**		**182**	**665**	**928**
	04/13/2023	1	NS					**804**		**349**	**1,153**	NS

*Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (>100 feet)*
~~Additional Excavation and/or Re-Sample~~
bgs: below ground surface
mg/kg: milligrams per kilogram
NE: Not Established
NS: Not Sampled
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon

ENSOLUM

APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation

CARDINAL Laboratories

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

March 10, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: FEDERAL 23 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/07/23 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	FEDERAL 23 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417057	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3715,-103.7424		

Sample ID: FS - 1 0-0.25' (H231026-01)

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	03/09/2023	ND	1.99	99.6	2.00	7.54	
Toluene*	<0.050	0.050	03/09/2023	ND	2.00	99.9	2.00	7.63	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.04	102	2.00	6.74	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.40	107	6.00	6.56	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *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	**8930**	16.0	03/09/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	176	87.8	200	6.32	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	200	100	200	9.02	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane *90.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	FEDERAL 23 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417057	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3715,-103.7424		

Sample ID: FS - 2 0-0.25' (H231026-02)

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	03/09/2023	ND	1.99	99.6	2.00	7.54	
Toluene*	<0.050	0.050	03/09/2023	ND	2.00	99.9	2.00	7.63	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.04	102	2.00	6.74	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.40	107	6.00	6.56	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *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	**4800**	16.0	03/09/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	176	87.8	200	6.32	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	200	100	200	9.02	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane *92.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	FEDERAL 23 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417057	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3715,-103.7424		

Sample ID: FS - 3 0-0.25' (H231026-03)

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	03/09/2023	ND	1.99	99.6	2.00	7.54	
Toluene*	<0.050	0.050	03/09/2023	ND	2.00	99.9	2.00	7.63	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.04	102	2.00	6.74	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.40	107	6.00	6.56	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *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	**1140**	16.0	03/09/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	176	87.8	200	6.32	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	200	100	200	9.02	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane *94.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	FEDERAL 23 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417057	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3715,-103.7424		

Sample ID: FS - 4 0-0.25' (H231026-04)

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	03/09/2023	ND	1.99	99.6	2.00	7.54	
Toluene*	<0.050	0.050	03/09/2023	ND	2.00	99.9	2.00	7.63	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.04	102	2.00	6.74	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.40	107	6.00	6.56	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *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	**3120**	16.0	03/09/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	176	87.8	200	6.32	
DRO >C10-C28*	**11.3**	10.0	03/09/2023	ND	200	100	200	9.02	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane *93.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	FEDERAL 23 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417057	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3715,-103.7424		

Sample ID: FS - 5 0-0.25' (H231026-05)

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	03/09/2023	ND	1.95	97.7	2.00	1.62	
Toluene*	<0.050	0.050	03/09/2023	ND	1.99	99.5	2.00	0.904	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.00	100	2.00	0.784	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.08	101	6.00	1.81	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *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	**1420**	16.0	03/09/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	03/09/2023	ND	176	87.8	200	6.32	
DRO >C10-C28*	**4290**	50.0	03/09/2023	ND	200	100	200	9.02	
EXT DRO >C28-C36	**704**	50.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane *96.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *141 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	FEDERAL 23 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417057	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3715,-103.7424		

Sample ID: FS - 6 0-0.25' (H231026-06)

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	03/09/2023	ND	1.95	97.7	2.00	1.62	
Toluene*	<0.050	0.050	03/09/2023	ND	1.99	99.5	2.00	0.904	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.00	100	2.00	0.784	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.08	101	6.00	1.81	
Total BTEX	<0.300	0.300	03/09/2023	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	**1680**	16.0	03/09/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	176	87.8	200	6.32	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	200	100	200	9.02	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane *97.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/10/2023	Sampling Type:	Soil
Project Name:	FEDERAL 23 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417057	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3715,-103.7424		

Sample ID: FS - 7 0-0.25' (H231026-07)

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	03/09/2023	ND	1.95	97.7	2.00	1.62	
Toluene*	<0.050	0.050	03/09/2023	ND	1.99	99.5	2.00	0.904	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.00	100	2.00	0.784	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.08	101	6.00	1.81	
Total BTEX	<0.300	0.300	03/09/2023	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	**928**	16.0	03/09/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2023	ND	191	95.3	200	4.30	
DRO >C10-C28*	**483**	10.0	03/09/2023	ND	188	93.9	200	5.23	
EXT DRO >C28-C36	**182**	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane *99.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *146 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Ensolum, LLC	**BILL TO**	
Project Manager:	Beaux Jennings	**P.O. #:**	
Address:	601 N. Marienfeld St. STE 400	**Company:**	Oxy USA, Inc.
City:	Midland **State:** TX **Zip:** 79701	**Attn:**	Wade Dittrich
Phone #:	210-219-8858 **Fax #:**	**Address:**	
Project #:	03B1417057 **Project Owner:**	**City:**	
Project Name:	Federal 23 CTB	**State:**	**Zip:**
Project Location:	32.3715, -103.7424	**Phone #:**	575-390-2828
Sampler Name:	Kailee Smith	**Fax #:**	

FOR LAB USE ONLY					MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX 8021B	TPH 8015M	Chlorides 4500
H231026																		
1	FS-1	0-0.25'	C	1			X					X		3-7-23	1038	X	X	X
2	FS-2	0-0.25'	C	1			X					X		3-7-23	1040	X	X	X
3	FS-3	0-0.25'	C	1			X					X		3-7-23	1042	X	X	X
4	FS-4	0-0.25'	C	1			X					X		3-7-23	1044	X	X	X
5	FS-5	0-0.25'	C	1			X					X		3-7-23	1046	X	X	X
6	FS-6	0-0.25'	C	1			X					X		3-7-23	1049	X	X	X
7	FS-7	0-0.25'	C	1			X					X		3-7-23	105	X	X	X
	NFE KS																	

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 consequental 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:** 3/7/23 **Time:** 1245	**Received By:**	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
			All Results are emailed. Please provide Email address: BJennings@ensolum.com
Relinquished By:	**Date:** **Time:**	**Received By:**	REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 6.0 Corrected Temp. °C 5.4	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials)	Turnaround Time: ☒ Standard ☐ Rush; Thermometer ID #113; Correction Factor -0.5°C; Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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

FORM-006 R 3.2 10/07/21

CARDINAL Laboratories

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

April 20, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: FEDERAL 23 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/14/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/14/2023	Sampling Date:	04/13/2023
Reported:	04/20/2023	Sampling Type:	Soil
Project Name:	FEDERAL 23 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417057	Sample Received By:	Tamara Oldaker
Project Location:	32.3715,-103.7424		

Sample ID: FS - 5 1' (H231819-01)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	**40.6**	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	**24.4**	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane	*94.2 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*107 %*	*49.1-148*

Sample ID: FS - 7 1' (H231819-02)

TPH 8015M **mg/kg** **Analyzed By: MS** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	**804**	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	**349**	10.0	04/19/2023	ND					

Surrogate: 1-Chlorooctane	*106 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*154 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Ensolum, LLC
Project Manager:	Beaux Jennings
Address:	601 N. Marienfeld St. STE 400
City:	Midland **State:** TX **Zip:** 79701
Phone #:	210-219-8858 **Fax #:**
Project #:	03B1417057 **Project Owner:**
Project Name:	Federal 23 CTB
Project Location:	32.375, -103.7424 Eddy County, NM
Sampler Name:	Kailee Smith

BILL TO	
P.O. #:	
Company:	Oxy USA, Inc.
Attn:	Wade Dittrich
Address:	
City:	
State:	**Zip:**
Phone #:	575-390-2828
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015m
H231819																
1	FS-5	1'	C	1			X					X		4-13-23	0816	X
2	FS-7	1'	C	1			X					X		4-13-23	0821	X

NFE
KS

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 consequental 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:** 4-14-23	**Received By:**	Verbal Result: ☐ Yes ☒ No Add'l Phone #:
	Time: 555		All Results are emailed. Please provide Email address: BJennings@ensolum.com
Relinquished By:	**Date:**	**Received By:**	REMARKS:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.5 Corrected Temp. °C 1.9	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: ☐ Standard ☒ Rush Thermometer ID #113 Correction Factor -0.5°C

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

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

FORM-006 R 3.2 10/07/21

ENSOLUM

APPENDIX F

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2314344835
District RP	2RP-4962
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Wade Dittrich	Contact Telephone: 575-390-2828
Contact email: wade_dittrich@oxy.com	Incident # nAPP2314344835
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.3715 Longitude -103.7424
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Federal 23 CTB	Site Type: Central Tank Battery
Date Release Discovered: 08/15/2018	API# 30-015-26377

Unit Letter	Section	Township	Range	County
P	23	22S	31E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls): 15	Volume Recovered (bbls): 15
☒ Produced Water	Volume Released (bbls): 25	Volume Recovered (bbls): 20
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release: Water tank spilled due to communication failure.		

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2314344835
District RP	2RP-4962
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release is greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Wade Dittrich of Oxy via email to Mike Bratcher and Maria Pruett (NMOCD) on 08/17/2018.	

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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: Wade Dittrich Title: Environmental Advisor

Signature: Wade Dittrich Date: 6-7-23

email: wade_dittrich@oxy.com Telephone: 575-390-2828

OCD Only

Received by: Jocelyn Harimon Date: 06/07/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2314344835
District RP	2RP-4962
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2314344835
District RP	2RP-4962
Facility ID	
Application ID	

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.

Printed Name: Wade Dittrich Title: Environmental Advisor

Signature:  Date: 6-7-23

email: wade_dittrich@oxy.com Telephone: 575-390-2828

OCD Only

Received by: Jocelyn Harimon Date: 06/07/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2314344835
District RP	2RP-4962
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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.

Printed Name: Wade Dittrich Title: Environmental Advisor

Signature: Wade Dittrich Date: 6-7-23

email: wade_dittrich@oxy.com Telephone: 575-390-2828

OCD Only

Received by: Jocelyn Harimon Date: 06/07/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

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

CONDITIONS

Action 224887

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 224887
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2314344835 FEDERAL 23 CTB, thank you. This closure is approved. Please be aware that any contaminants left on pad above reclamation standards will need to be addressed at the time the site/facility is plugged and abandoned.	11/7/2023