



## REVISED CLOSURE REPORT

Property:

**North Corridor WPF**

**Eddy County, New Mexico**

**32.247 N, 103.787 W**

**NMOCD Incident ID: nAPP2227954604**

August 14, 2023

Ensolum Project No. 03B1417062

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



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# ENSOLUM

## REVISED CLOSURE REPORT

North Corridor WPF

Eddy County, New Mexico

32.247 N, 103.787 W

NMOCD Incident ID: nAPP2227954604

Ensolum Project No. 03B1417062

### 1.0 INTRODUCTION

#### 1.1 Executive Summary

- On October 4, 2022, a release of produced water was reported from a transfer pump due to internal corrosion at the North Corridor WPF, hereinafter referred to as the "Site". Approximately 165 barrels (bbls) of produced water were released, with 160 bbls recovered, and impacted an area approximately 150 feet long by 50 feet wide. Oxy contracted Ensolum, LLC (Ensolum) to perform sampling of the release area subsequent to the completion of remediation activities.
- On October 26, 2022, Ensolum arrived on-Site and collected a total of 20 composite soil samples from five locations (PH-1 and PH-5), four from each pothole location at one-foot intervals down to a depth of four feet below ground surface (bgs), within the release area. Additionally, four delineation composite soil samples (BG-1 through BG-4) were collected from a depth of 0-0.25 feet bgs to determine the horizontal and vertical extent of the release.
- On December 28, 2022, Ensolum arrived at the Site and collected a total of 38 composite soil samples from 38 locations (FS-1 through FS-38) within the release area. The composite soil samples were collected from 0-0.25 feet bgs.
- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04695-POD1) was installed on January 12, 2023 by Ensolum personnel. The soil boring was installed 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 results, no excavation or remediation was required.
- 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 release area measured approximately 150 feet long by 50 feet wide.
- On February 23, 2023, a Closure Report was submitted to the New Mexico EMNRD OCD for approval.
- On June 27, 2023, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.
- Based on the request from the New Mexico EMNRD OCD, horizontal delineation samples (BG-5 through BG-12) were collected outside of the spill extent on August 8, 2023.

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- Based on the laboratory analytical results, the final soil samples collected from the release area 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.

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

## 1.2 Site Description & Background

<b>Operator:</b>	Oxy USA Inc. (Oxy)
<b>Site Name:</b>	North Corridor WPF
<b>Location:</b>	32.247 N, 103.787 W Eddy County, New Mexico
<b>Property:</b>	Bureau of Land Management (BLM)
<b>Regulatory:</b>	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 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 EMNRD 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.

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- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to 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 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 October 4, 2022, a release of produced water was reported from a transfer pump due to internal corrosion at the Site. Approximately 165 bbls of produced water were released, with 160 bbls recovered, and impacted an area approximately 150 feet long by 50 feet wide. Oxy contracted Ensolum to perform sampling of the release area subsequent to the completion of remediation activities.

On October 26 and December 28, 2022, Ensolum arrived on-Site and collected a total of 58 composite soil samples from 40 locations (PH-1 through PH-5 and FS-1 through FS-38) from within the release area, and four composite soil samples from four locations (BG-1 through BG-4) outside of the release area. The composite soil samples from within the release area were collected at depths ranging from 0-4 feet bgs, and the composite soil samples collected outside of the release area were collected from 0-0.25 feet bgs.

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Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04695-POD1) was installed on January 12, 2023 by Ensolum personnel. The soil boring was installed on 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.

On February 23, 2023, a Closure Report was submitted to the New Mexico EMNRD OCD for approval.

On June 27, 2023, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.

Based on the request from the New Mexico EMNRD OCD, horizontal delineation samples (BG-5 through BG-12) were collected outside of the spill extent on August 8, 2023.

The final release area measured approximately 150 feet long by 50 feet wide.

The lithology at the Site consists primarily of a fine-grained red sand with some plasticity.

**Figure 3** identifies approximate pothole 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 58 composite soil samples from 40 locations (PH-1 through PH-5 and FS-1 through FS-38) from within the release area, and 12 soil samples from 12 locations (BG-1 through BG-12) outside of the release area. The composite soil samples from within the release area were collected at depths ranging from 0-4 feet bgs, and the soil samples collected outside of the release area were collected from 0-0.25 feet bgs.

The soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico for standard laboratory analysis.

#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

The 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-CI 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 soil samples collected from within the release area (PH-1 through PH-5 and FS-1 through FS-38) and outside the release area (BG-1 through BG-12) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the soil samples are below the laboratory sample detection limits (SDLs), which are below the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate that total BTEX concentrations for the soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.

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- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg.
- Laboratory analytical results indicate chloride concentrations for the soil samples are below the applicable NMOCD Closure Criteria of 20,000 mg/kg.

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

## 7.0 RECLAMATION AND RE-VEGETATION

Based on the results of the final confirmation soil sampling, no excavation was required; therefore, no reclamation or re-vegetation was required.

## 8.0 FINDINGS AND RECOMMENDATION

- On October 4, 2022, a release of produced water was reported from a transfer pump due to internal corrosion at the Site. Approximately 165 bbls of produced water were released, with 160 bbls recovered, and impacted an area approximately 150 feet long by 50 feet wide. Oxy contracted Ensolum to perform sampling of the release area subsequent to the completion of remediation activities.
- On October 26 and December 28, 2022, Ensolum arrived on-Site and collected a total of 58 composite soil samples from 40 locations (PH-1 through PH-5 and FS-1 through FS-38) from within the release area, and four composite soil samples from four locations (BG-1 through BG-4) outside of the release area. The composite soil samples from within the release area were collected at depths ranging from 0-4 feet bgs, and the composite soil samples collected outside of the release area were collected from 0-0.25 feet bgs.
- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04695-POD1) was installed on January 12, 2023 by Ensolum personnel. The soil boring was installed on 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.
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- Based on the request from the New Mexico EMNRD OCD, horizontal delineation samples (BG-5 through BG-12) were collected outside of the spill extent on August 8, 2023.
- Based on the laboratory analytical results, the final soil samples collected from the release area did not exhibit benzene, BTEX, TPH GRO/DRO, TPH GRO/DRO/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.

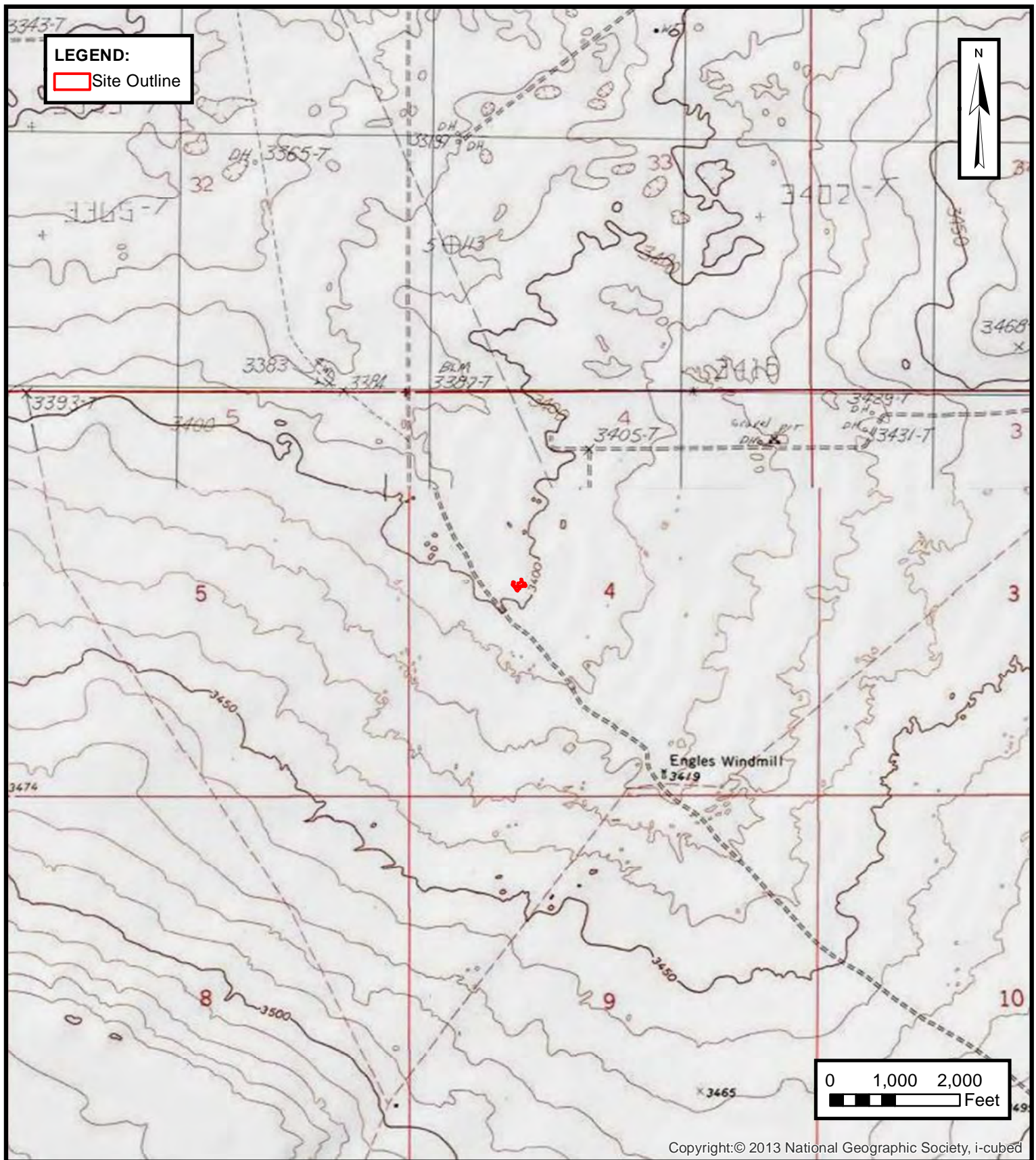
### **9.3 Reliance**

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.



## APPENDIX A

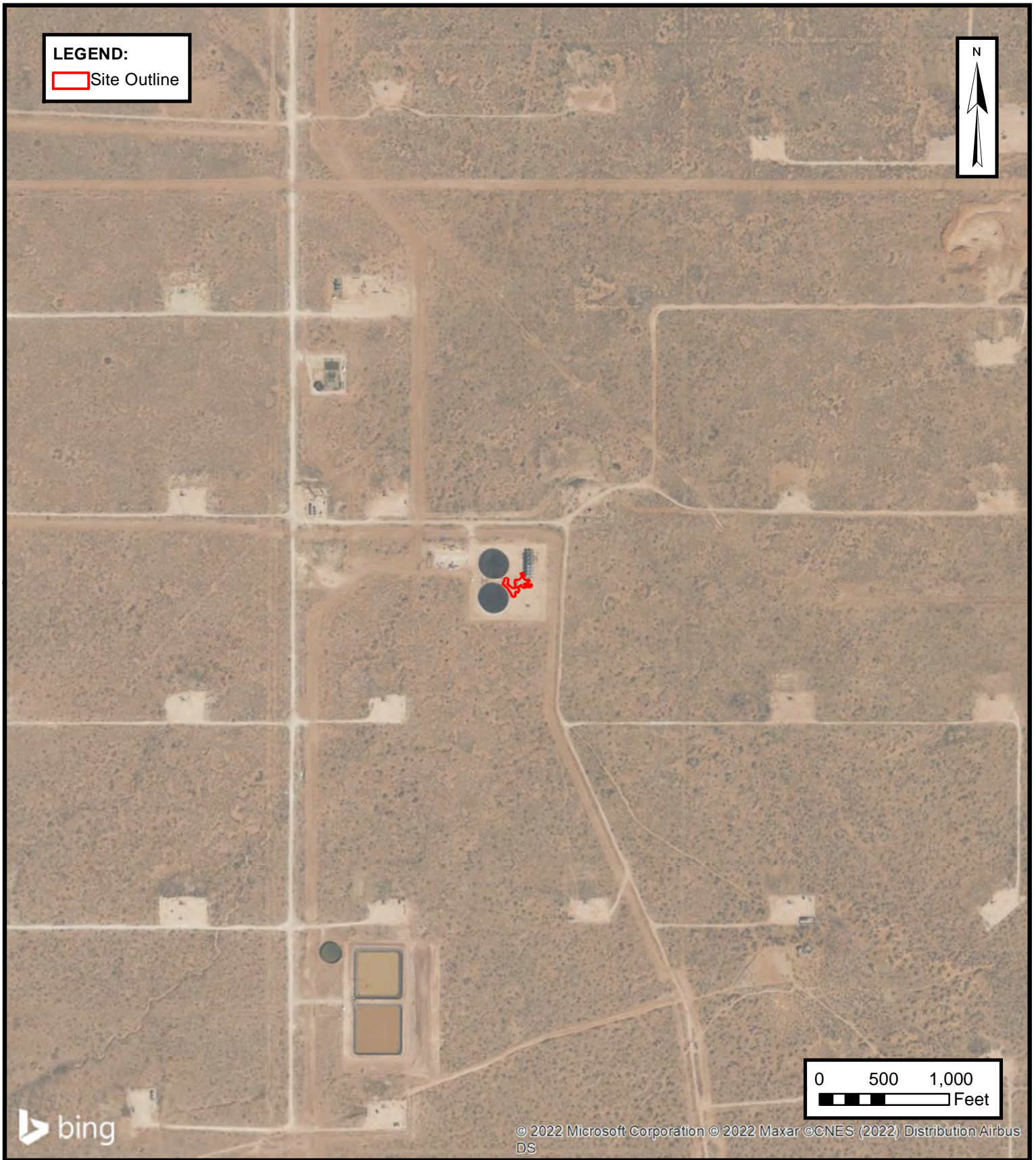
### Figures

**TOPOGRAPHIC MAP**

OXY USA INC.  
NORTH CORRIDOR WPF  
Eddy County, New Mexico  
32.247° N, 103.787° W

PROJECT NUMBER: 03B1417062

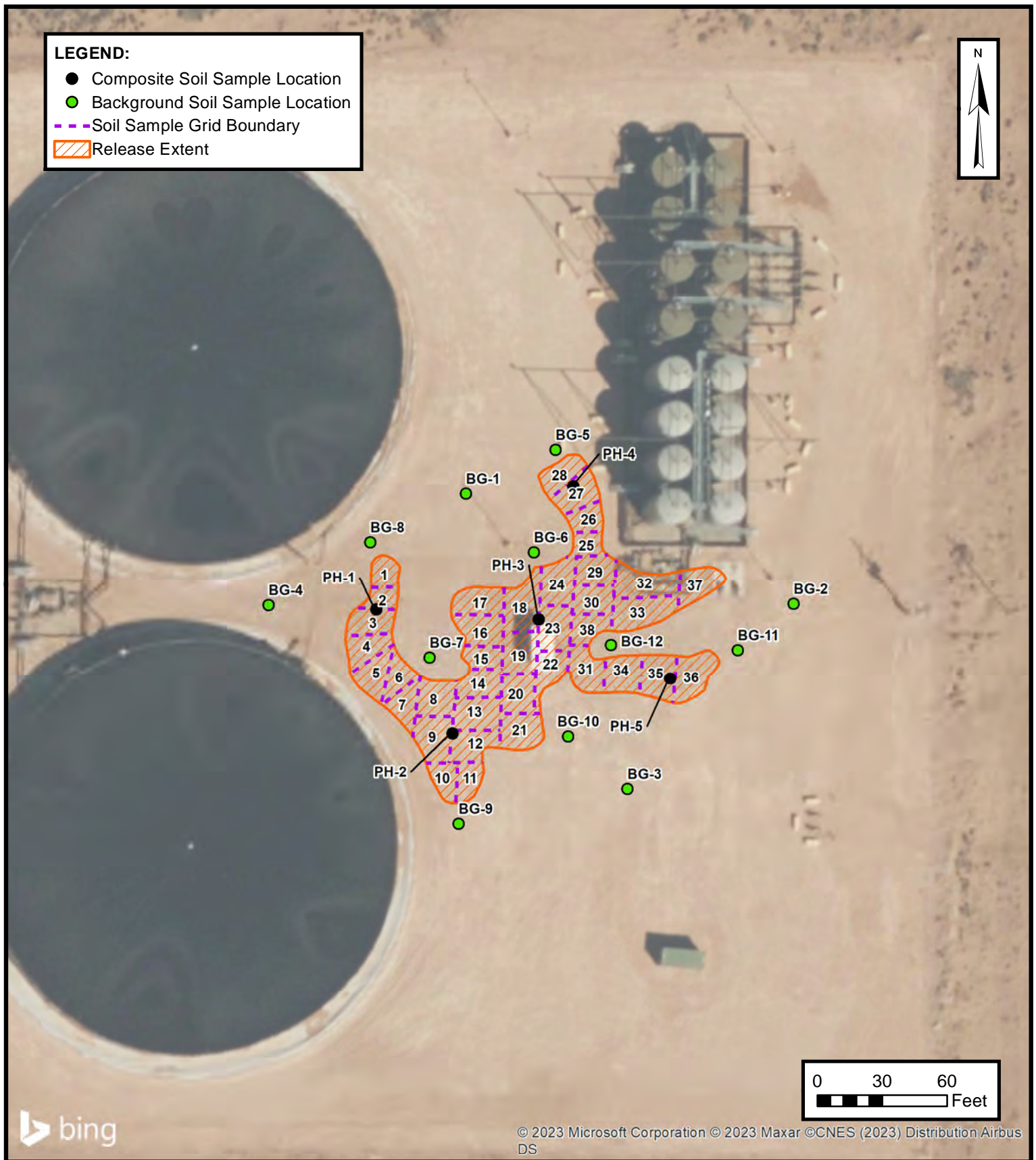
**FIGURE****1**

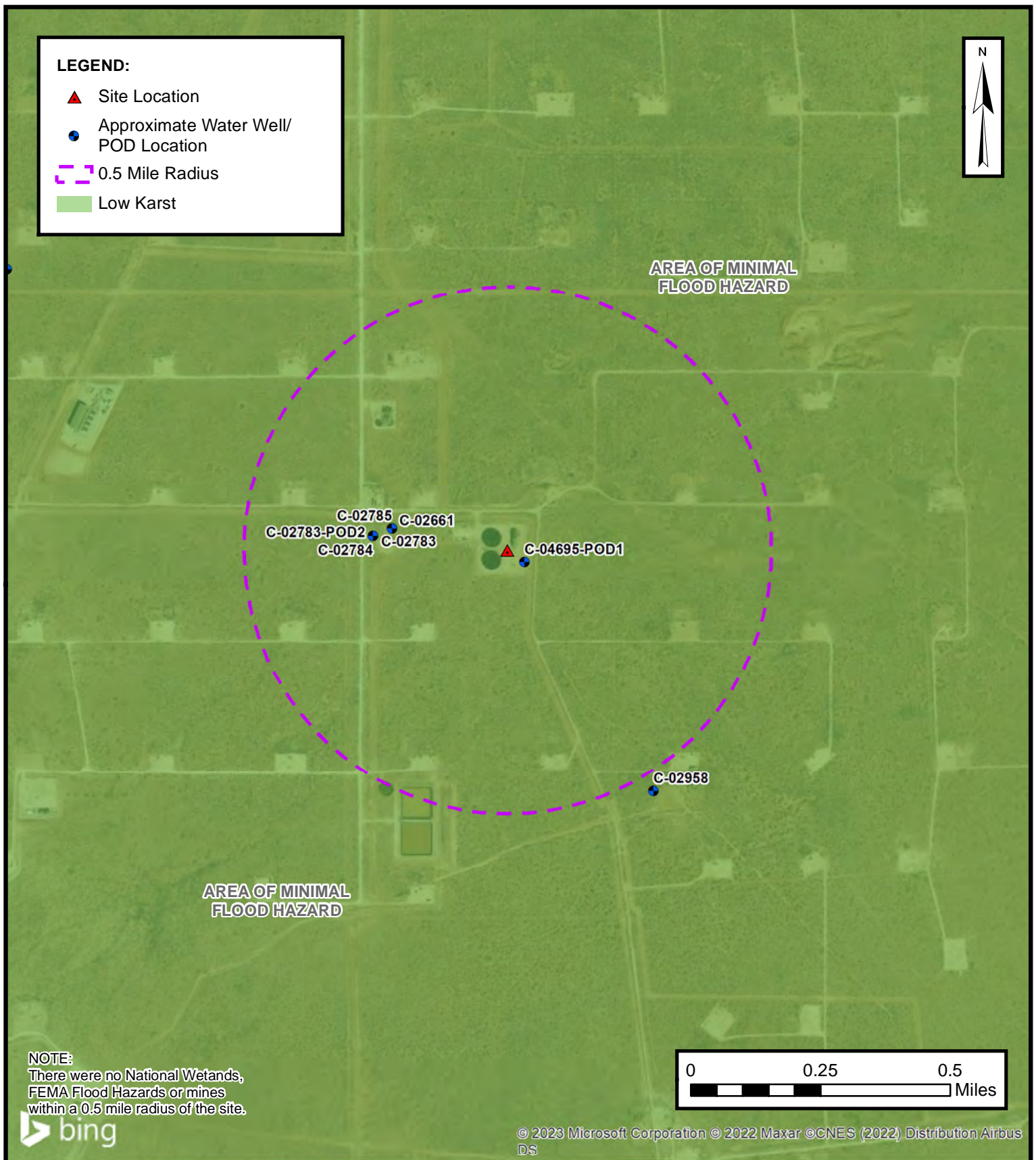


**SITE VICINITY MAP**  
OXY USA INC.  
NORTH CORRIDOR WPF  
Eddy County, New Mexico  
32.247° N, 103.787° W

PROJECT NUMBER: 03B1417062

**FIGURE**  
**2**



**CLOSURE CRITERIA MAP**

OXY USA INC.  
NORTH CORRIDOR WPF  
Eddy County, New Mexico  
32.247° N, 103.787° W

PROJECT NUMBER: 03B1417062

**FIGURE****4**

**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants



## APPENDIX B

### Supporting Documentation

Client: Oxy USA Inc.  
 Project Name: North Corridor WPF  
 Project Location: Eddy County, New Mexico  
 Project Manager: Beaux Jennings

## SOIL BORING / WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 1/12/2023  
 Date Completed: 1/12/2023  
 Drilling Company: West Texas Water Well Services  
 Driller: Russell Southerland

Soil Boring / Well Number: SB-1 (C-04695-POD1)  
 Project #: 03B1417062  
 Drawn By: Beaux Jennings  
 Approved By: Heather Holthaus

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**      **SAMPLER TYPE**      **GROUNDWATER DEPTH**  
 HSA - HOLLOW STEM AUGERS      CB - FIVE FOOT CORE BARREL      ▽ AT COMPLETION  
 CFA - CONTINUOUS FLIGHT AUGERS      SS - DRIVEN SPLIT SPOON      ▽ AT WELL STABILIZATION  
 GP - GEOPROBE      ST - PRESSED SHELBY TUBE  
 AR - AIR ROTARY

### BORING AND SAMPLING NOTES

Soil Boring Detail	SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)
--------------------	---------------------	---------------	-------------	------------	-----------------	------------	-------------------	------------------------

Drill Cuttings-

Drill Cuttings-

Drill Cuttings-

0' - Sand, some plasticity, fine-grained, red, dry, no odor

20' - Sand, very fine-grained, light reddish brown, dry, no odor

30' - Some sandstone fragments, red, dry, no odor

50' - Larger sandstone fragments, pale red, dry, no odor

60' - Sand, some plasticity, very fine-grained, red, dry, no odor

NR - No Recovery

Client: Oxy USA Inc.  
Project Name: North Corridor WPF  
Project Location: Eddy County, New Mexico  
Project Manager: Beaux Jennings

## SOIL BORING / WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 1/12/2023  
Date Completed: 1/12/2023  
Drilling Company: West Texas Water Well Services  
Driller: Russell Southerland

Soil Boring / Well Number: SB-1 (C-04695-POD1)  
Project #: 03B1417062  
Drawn By: Beaux Jennings  
Approved By: Heather Holthaus

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

### BORING AND SAMPLING NOTES

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-

Drill Cuttings-

70' - Sand, no plasticity, fine-grained, reddish brown, dry, no odor

80' - Sand, some sandstone fragments, red, dry, no odor

110' - Total Depth

NR - No Recovery

## Beaux Jennings

---

**From:** Beaux Jennings  
**Sent:** Monday, October 10, 2022 10:48 AM  
**To:** OCD.Enviro@emnrd.nm.gov  
**Subject:** North Corridor WPF (Incident # nAPP2227954604)

Good Morning,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for a liner inspection that will be conducted at the North Corridor WPF (Incident # nAPP2227954604) on Wednesday, October 12<sup>th</sup> at 11am. The inspection may be used for closure, provided that the liner remains intact and had the ability to contain the spill.

Thank you,



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

**Beaux Jennings**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Wednesday, December 21, 2022 5:31 PM  
**To:** Beaux Jennings  
**Cc:** Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD  
**Subject:** RE: [EXTERNAL] North Corridor WPF (Incident # nAPP2227954604)

[ \*\*EXTERNAL EMAIL\*\* ]

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

**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](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



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**From:** Beaux Jennings <bjennings@ensolum.com>  
**Sent:** Wednesday, December 21, 2022 3:47 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Subject:** [EXTERNAL] North Corridor WPF (Incident # nAPP2227954604)

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 sampling activities that will be conducted at the North Corridor WPF (Incident # nAPP2227954604) on Tuesday, December 27<sup>th</sup> at 11am. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



**Beaux Jennings**  
Senior Project Manager  
210-219-8858  
**Ensolum, LLC**  
in f t

**PLEASE NOTE OUR NEW CORPORATE ADDRESS:**

Ensolum, LLC  
8330 LBJ Freeway, Ste. 830

Dallas, TX 75243

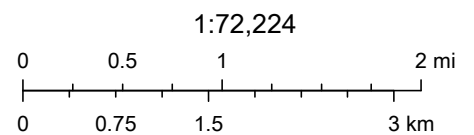
## Active Mines in New Mexico



12/23/2022, 9:28:04 AM

### Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.

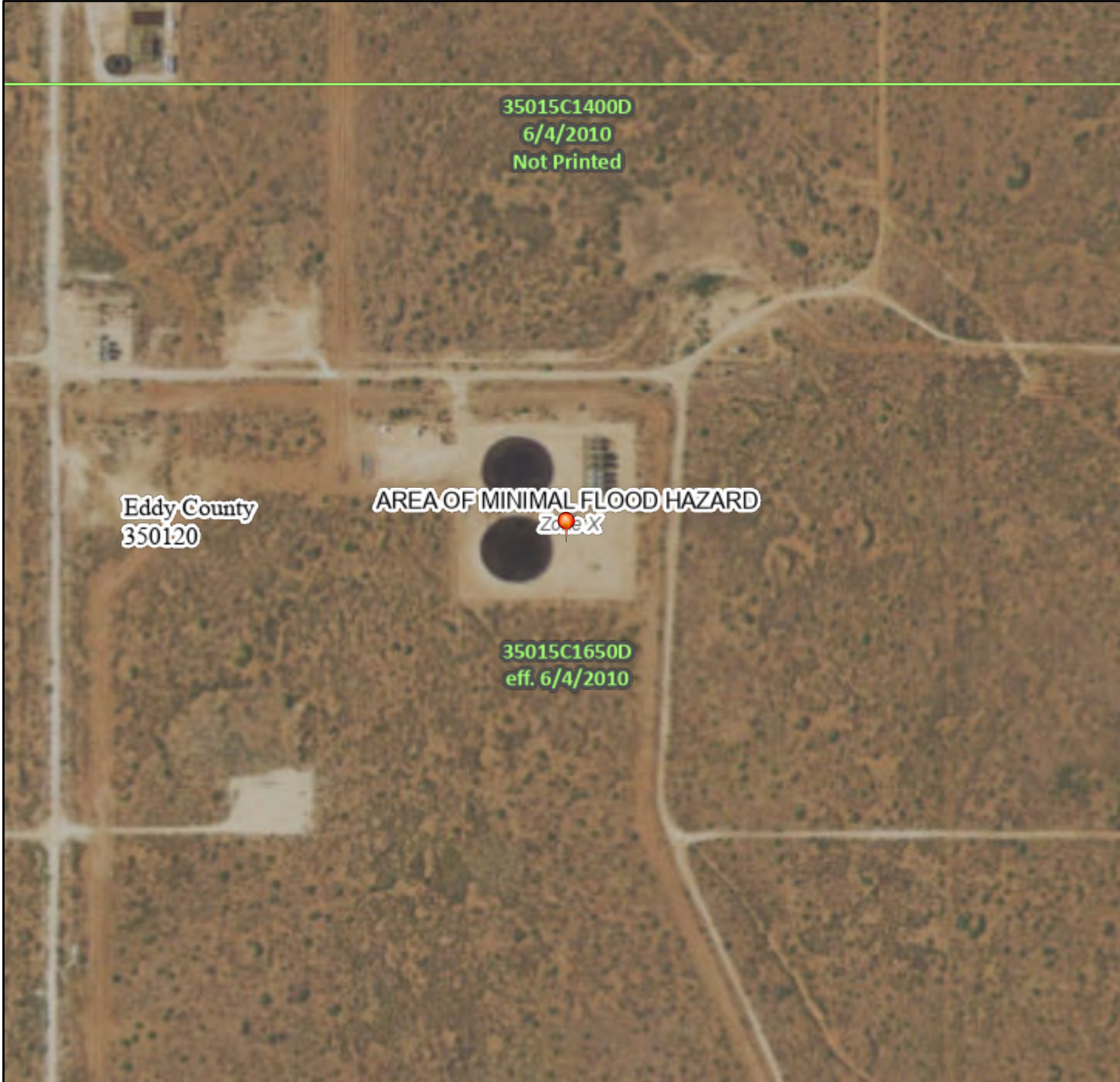


Esri, HERE, Garmin, Earthstar Geographics

# National Flood Hazard Layer FIRMette



103°47'30"W 32°15'2"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 103°46'52"W 32°14'32"N

## 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 Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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 12/23/2022 at 10:30 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.

# North Corridor WPF

Write a description for your map.

## Legend

- Feature 1
- Feature 2
- Feature 3
- High
- Low
- Medium
- North Corridor WPF 10.12.22
- North Corridor WPF 10.12.22



600 ft

# OSE POD Locations Map



1/25/2023, 9:34:26 AM

- Recently Edited PODs

● Active

● Plugged

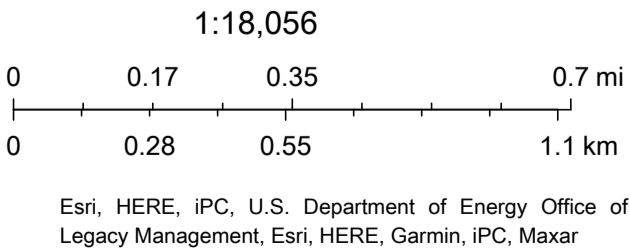
□ OSE District Boundary

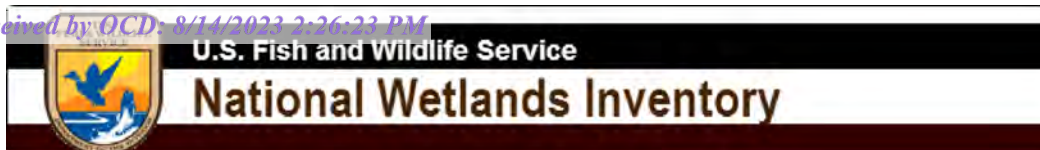
■ New Mexico State Trust Lands

■ Subsurface Estate

■ Both Estates

■ SiteBoundaries










## Wetlands Mapper





December 23, 2022

**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.



## APPENDIX C

### Photographic Documentation

Date & Time: Wed, Oct 12, 2022, 11:35:45 MDT  
Position: +032.246701° / -103.786231° (±15.6ft)  
Altitude: 3399ft (±11.0ft)  
Datum: WGS-84  
Azimuth/Bearing: 288° N72W 5120mils True (±15°)  
Elevation Angle: -09.3°  
Horizon Angle: -00.1°  
Zoom: 0.5X



View of release point and impact area during initial investigation activities, facing northwest.

Date & Time: Wed, Oct 12, 2022, 11:36:09 MDT  
Position: +032.246758° / -103.786454° (±15.6ft)  
Altitude: 3399ft (±11.1ft)  
Datum: WGS-84  
Azimuth/Bearing: 114° S66E 2027mils True (±15°)  
Elevation Angle: -08.5°  
Horizon Angle: +01.4°  
Zoom: 0.5X



View of impact area during initial investigation activities, facing southeast.



View of impact area during initial investigation activities, facing northwest.



View of impact area during initial investigation activities, facing northeast.



## APPENDIX D

### Tables



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 North Corridor WPF  
 Oxy USA Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417062

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+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 Soil Sample Analytical Results											
FS-1	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	128	19.7	148	32.0
FS-2	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-3	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
FS-4	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	311	49.9	361	176
FS-5	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
FS-6	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-7	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	610	161	771	2,640
FS-8	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-9	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-10	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	784
FS-11	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	848
FS-12	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,800
FS-13	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	18.6	13.2	31.8	272
FS-14	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	64.0
FS-15	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	416
FS-16	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FS-17	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
FS-18	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-19	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	224
FS-20	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,800
FS-21	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	4,000
FS-22	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	704
FS-23	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	336
FS-24	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,560
FS-25	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	710	188	898	4,720
FS-26	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	432
FS-27	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,200
FS-28	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	477	373	850	48.0
FS-29	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,120
FS-30	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	8,800
FS-31	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	8,160
FS-32	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	7,840
FS-33	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,160
FS-34	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,720
FS-35	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
FS-36	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	432
FS-37	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,400
FS-38	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	13,600



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 North Corridor WPF  
 Oxy USA Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417062

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+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
Pothole Soil Sample Analytical Results											
PH-1	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
PH-2	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,920
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	920
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	480
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	848
PH-3	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,360
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	384
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
PH-4	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
PH-5	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,080
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	112
Background Sample Analytical Results											
BG-1	10/26/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
BG-2	10/26/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
BG-3	10/26/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-4	10/26/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
BG-5	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
BG-6	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-7	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-8	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-9	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
BG-10	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
BG-11	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
BG-12	8/8/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0

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



## APPENDIX E

### Laboratory Data Sheets and Chain-of-Custody Documentation



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

November 01, 2022

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

RE: NORTH CORRIDOR WPF

Enclosed are the results of analyses for samples received by the laboratory on 10/26/22 14:03.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 11/01/2022  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/26/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PH 1 0-1' (H225048-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 1 1-2' (H225048-02)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 1 2-3' (H225048-03)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND					

Surrogate: 1-Chlorooctane 99.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 1 3-4' (H225048-04)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 2 0-1' (H225048-05)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 2 1-2' (H225048-06)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	920	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/30/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 2 2-3' (H225048-07)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 2 3-4' (H225048-08)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	194	97.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 3 0-1' (H225048-09)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 3 1-2' (H225048-10)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 3 2-3' (H225048-11)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

Chloride, SM4500Cl-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	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 3 3-4' (H225048-12)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 4 0-1' (H225048-13)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 4 1-2' (H225048-14)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 4 2-3' (H225048-15)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86	
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68	
Total BTX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 4 3-4' (H225048-16)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 69.9-140

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	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 5 0-1' (H225048-17)**

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	10/31/2022	ND	1.96	98.0	2.00	5.86		
Toluene*	<0.050	0.050	10/31/2022	ND	2.11	106	2.00	3.93		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.06	103	2.00	2.48		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.25	104	6.00	2.68		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	10/28/2022	ND	432	108	400	3.64	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 5 1-2' (H225048-18)**

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 141 % 45.3-161

Surrogate: 1-Chlorooctadecane 173 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 5 2-3' (H225048-19)**

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

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	10/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: PH 5 3-4' (H225048-20)**

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 69.9-140

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	10/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 98.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 1 0-.25' (H225048-21)**

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 69.9-140

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	10/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 128 % 45.3-161

Surrogate: 1-Chlorooctadecane 152 % 46.3-178

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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:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 2 0-.25' (H225048-22)**

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 69.9-140

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	10/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 139 % 45.3-161

Surrogate: 1-Chlorooctadecane 170 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 3 0-.25' (H225048-23)**

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 69.9-140

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	10/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 99.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/26/2022	Sampling Date:	10/26/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 4 0-.25' (H225048-24)**

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	10/31/2022	ND	1.97	98.3	2.00	6.10		
Toluene*	<0.050	0.050	10/31/2022	ND	2.10	105	2.00	5.03		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.04	102	2.00	5.19		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.19	103	6.00	4.83		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 69.9-140

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	10/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2022	ND	189	94.3	200	0.867	
DRO >C10-C28*	<10.0	10.0	11/01/2022	ND	189	94.5	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/01/2022	ND					

Surrogate: 1-Chlorooctane 98.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Bruce Jennings <b>Address:</b> 601 N. Marlenfeld St. STE 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 432-230-3344 <b>Fax #:</b> <b>Project #:</b> 032417062 <b>Project Owner:</b> <b>Project Name:</b> M-01 Corridor IMPF <b>Project Location:</b> Eddy Co. NM <b>Sample Name:</b> Stone Diller										<b>P.O. #:</b> <b>Company:</b> Oxy USA, Inc. <b>Attn:</b> Wade Dittich <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>									
<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>									
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b> H2SD48 <b>Sample I.D.</b> <b>Sample Depth (feet)</b> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME										MATRIX PRESERV SAMPLING TPH 8015m BTEX 80216 Chlorides 4500									
1 PH1 0-1 C 1 X 10-26-22 1134 X X X X 2 PH1 1-2 C 1 X 1136 X X X X 3 PH1 2-3 C 1 X 1138 X X X X 4 PH1 3-4 C 1 X 1140 X X X X 5 PH2 0-1 C 1 X 1144 X X X X 6 PH2 1-2 C 1 X 1146 X X X X 7 PH2 2-3 C 1 X 1148 X X X X 8 PH2 3-4 C 1 X 1150 X X X X 9 PH3 0-1 C 1 X 1152 X X X X 10 PH3 1-2 C 1 X 1154 X X X X																			
<b>PLEASE NOTE:</b> 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 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.										<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>REMARKS:</b> All Results are emailed. Please provide Email address: blennings@ensolum.com									
<b>Relinquished By:</b> [Signature] <b>Date:</b> 10-26-22 <b>Time:</b> 1405 <b>Received By:</b> [Signature] <b>Date:</b> 10-26-22 <b>Time:</b>										<b>Turnaround Time:</b> Standard Rush <input checked="" type="checkbox"/> <b>Thermometer ID #113</b> <b>Correction Factor:</b> -0.3C <b>TS:</b> 10/26/22 <b>Bacteria (only) Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C									
<b>Relinquished By:</b> [Signature] <b>Date:</b> 10-26-22 <b>Time:</b> 1405 <b>Received By:</b> [Signature]										<b>Turnaround Time:</b> Standard Rush <input checked="" type="checkbox"/> <b>Thermometer ID #113</b> <b>Correction Factor:</b> -0.3C <b>TS:</b> 10/26/22 <b>Bacteria (only) Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C									





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Beau Jennings <b>Address:</b> 601 N. Martenfield St. STE 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 432 230 3344 <b>Fax #:</b> <b>Project #:</b> 0381417062 <b>Project Owner:</b> <b>Project Name:</b> North Corridor WPF <b>Project Location:</b> Edley Co. Wm <b>Sampler Name:</b> Skane D. He <b>FOR LAB USE ONLY</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
				<b>P.O. #:</b>		<b>Company:</b> Oxy USA, Inc. <b>Attn:</b> Wade Dittich					
				<b>Address:</b>		<b>City:</b>					
				<b>State:</b>		<b>Zip:</b>					
				<b>Phone #:</b> 575-390-2828		<b>Fax #:</b>					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	TPH	BTX	Chlorides							
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL												OTHER :
21	B6-1	0 - .25	C		X								10-26-22	1315	X	X	X							
22	B6-2	0 - .25	C		X								10-26-22	1317	X	X	X							
23	B6-3	0 - .25	C		X								10-26-22	1319	X	X	X							
24	B6-4	0 - .25	C		X								10-26-22	1321	X	X	X							

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<b>Relinquished By:</b> <i>Skane D. He</i> <b>Date:</b> 10-26-22 <b>Time:</b> 1403 <b>Received By:</b> <i>Wade Dittich</i> <b>Date:</b> <b>Time:</b> <b>Received By:</b> <b>Relinquished By:</b> <b>Date:</b> <b>Time:</b> <b>Received By:</b> <b>Remarks:</b>	<b>Turnaround Time:</b> <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> <b>Thermometer ID #113</b> <b>Correction Factor:</b> -0.006 <b>TC/24/22</b> <b>Bacteria (only)</b> <input type="checkbox"/> <b>Cool Intact</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>Sample Condition</b> <input type="checkbox"/> <b>Observed Temp. °C</b> <b>Corrected Temp. °C</b>
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January 03, 2023

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

RE: NORTH CORRIDOR WPF

Enclosed are the results of analyses for samples received by the laboratory on 12/28/22 15:26.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 1 0-.25' (H226090-01)**

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	128	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	19.7	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 46.3-178

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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: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 2 0-.25' (H226090-02)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 3 0-.25' (H226090-03)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 4 0-.25' (H226090-04)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	311	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	49.9	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 5 0-.25' (H226090-05)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.5 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 6 0-.25' (H226090-06)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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**Analytical Results For:**

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 7 0-.25' (H226090-07)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	610	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	161	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 8 0-.25' (H226090-08)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 9 0-.25' (H226090-09)**

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.7 % 46.3-178

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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: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 10 0-.25' (H226090-10)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 11 0-.25' (H226090-11)**

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.0 % 46.3-178

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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: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 12 0-.25' (H226090-12)**

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	12/30/2022	ND	2.09	105	2.00	11.6	
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8	
Total BTX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	197	98.7	200	3.88	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.4 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 13 0-.25' (H226090-13)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	18.6	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	13.2	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.7 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 14 0-.25' (H226090-14)**

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	12/30/2022	ND	2.09	105	2.00	11.6		
Toluene*	<0.050	0.050	12/30/2022	ND	2.12	106	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	11.7		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.28	105	6.00	10.8		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 74.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.9 % 46.3-178

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**Analytical Results For:**

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 15 0-.25' (H226090-15)**

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	12/29/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/29/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 62.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 66.6 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 16 0-.25' (H226090-16)**

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	12/29/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/29/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.38	106	6.00	1.17	
Total BTEx	<0.300	0.300	12/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 60.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 65.7 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 17 0-.25' (H226090-17)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEx	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.0 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 18 0-.25' (H226090-18)**

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	12/30/2022	ND	2.11	105	2.00	0.0931		
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

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	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 71.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.4 % 46.3-178

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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: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 19 0-.25' (H226090-19)**

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	12/30/2022	ND	2.11	105	2.00	0.0931		
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	12/29/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 20 0-.25' (H226090-20)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 21 0-.25' (H226090-21)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEx	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 22 0-.25' (H226090-22)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 23 0-.25' (H226090-23)**

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	12/30/2022	ND	2.11	105	2.00	0.0931		
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17		
Total BTEx	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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**Analytical Results For:**

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 24 0-.25' (H226090-24)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEx	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 25 0-.25' (H226090-25)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	710	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	188	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 26 0-.25' (H226090-26)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEx	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/29/2022	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	01/03/2023	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/03/2023	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	01/03/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.9 % 46.3-178

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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: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 27 0-.25' (H226090-27)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 28 0-.25' (H226090-28)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEx	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

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	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	477	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	373	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.3 % 46.3-178

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**Analytical Results For:**

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 29 0-.25' (H226090-29)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEx	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	12/29/2022	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	01/03/2023	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/03/2023	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	01/03/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.6 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 30 0-.25' (H226090-30)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 31 0-.25' (H226090-31)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8160	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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**Analytical Results For:**

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 32 0-.25' (H226090-32)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEx	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7840	16.0	12/29/2022	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	12/29/2022	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	214	107	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 33 0-.25' (H226090-33)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEx	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	12/29/2022	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	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.7 % 46.3-178

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**Analytical Results For:**

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 34 0-.25' (H226090-34)**

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	12/30/2022	ND	2.11	105	2.00	0.0931	
Toluene*	<0.050	0.050	12/30/2022	ND	2.19	109	2.00	0.00554	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	0.00795	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.38	106	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	12/29/2022	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	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 73.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

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**Analytical Results For:**

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

Received: 12/28/2022  
Reported: 01/03/2023  
Project Name: NORTH CORRIDOR WPF  
Project Number: 03B1417062  
Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 35 0-.25' (H226090-35)**

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	12/29/2022	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79	
Total BTEx	<0.300	0.300	12/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	12/29/2022	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	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 36 0-.25' (H226090-36)**

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	12/29/2022	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79	
Total BTEx	<0.300	0.300	12/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/29/2022	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	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/28/2022  
 Reported: 01/03/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 12/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 37 0-.25' (H226090-37)**

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	12/29/2022	ND	2.11	105	2.00	1.59		
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50		
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79		
Total BTEX	<0.300	0.300	12/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	12/29/2022	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	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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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:	12/28/2022	Sampling Date:	12/28/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

**Sample ID: FS - 38 0-.25' (H226090-38)**

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	12/29/2022	ND	2.11	105	2.00	1.59		
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50		
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79		
Total BTEX	<0.300	0.300	12/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13600	16.0	12/29/2022	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	12/29/2022	ND	202	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	220	110	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 76.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 1 of 4

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg. 2 of 4

Company Name: Ensolum, LLC

Project Manager: Beaux Jennings

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

Phone #: 210-219-8858

Fax #:

Project #: 03R1417062

Project Owner:

Project Name: North Corner LPT

Project Location: Eddy County

Sampler Name: Silver Diller

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Oxy USA Inc.

Attn: Wade Ditrach

Address:

City:

State: Zip:

Phone #: 575-390-2828

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth  
(feet)

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8045 M

BTEX 8021 B

Chlorides 4500

WFE

12/24/22

Sam

12/24/22

12/24/22

12/24/22

12/24/22

12/24/22

12/24/22

12/24/22

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12/24/22

12/24/22

12/24/22

12/24/22

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Relinquished By:

Date: 12/28/22

Time: 12:41

Received By:

Date: 12/28/22

Time: 12:05

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

REMARKS:

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 12/28/22

Time: 12:41

Received By:

Date: 12/28/22

Time: 12:05

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

REMARKS:

All Results are emailed. Please provide Email address:

Delivered By: (Circle One)

Date: 12/28/22

Time: 12:41

Received By:

Date: 12/28/22

Time: 12:05

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

REMARKS:

All Results are emailed. Please provide Email address:

Sampler - UPS - Bus - Other:

Date: 12/28/22

Time: 12:41

Received By:

Date: 12/28/22

Time: 12:05

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

REMARKS:

All Results are emailed. Please provide Email address:

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



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg. 3 of 4

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Beaux Jennings <b>Address:</b> 601 N Marientfield Street, Suite 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 210-219-8858 <b>Fax #:</b> <b>Project Owner:</b> <b>Project #:</b> 033417-062 <b>Project Location:</b> North Corral WPF <b>Sampler Name:</b> Suzanne Dittler <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>										<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oxy USA Inc. <b>Attn:</b> Wade Dittlerich <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>			
<b>FOR LAB USE ONLY</b>															
<b>Lab I.D.</b> H2210090		<b>Sample I.D.</b>		<b>Depth (feet)</b>		(G)RAB OR (C)OMP. # CONTAINERS		<b>MATRIX</b>				<b>PRESERV.</b>		<b>SAMPLING</b>	
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :							
21		FS-21		0-25		C		X				12/28/17		1206	
22		FS-22		0-25		C		X				12/28/17		1207	
23		FS-23		0-25		C		X				12/28/17		1208	
24		FS-24		0-25		C		X				12/28/17		1209	
25		FS-25		0-25		C		X				12/28/17		1210	
26		FS-26		0-25		C		X				12/28/17		1211	
27		FS-27		0-25		C		X				12/28/17		1213	
28		FS-28		0-25		C		X				12/28/17		1214	
29		FS-29		0-25		C		X				12/28/17		1215	
30		FS-30		0-25		C		X				12/28/17		1216	

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<b>Relinquished By:</b> [Signature]		<b>Date:</b> 12/28/17		<b>Received By:</b> [Signature]		<b>Date:</b> 12/28/17	
<b>Relinquished By:</b> [Signature]		<b>Date:</b> 12/28/17		<b>Received By:</b> [Signature]		<b>Date:</b> 12/28/17	

<b>Delivered By:</b> (Circle One) [Signature]		<b>Observed Temp. °C:</b> 5.5 <b>Corrected Temp. °C:</b> 4.9		<b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> P Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		<b>CHECKED BY:</b> [Signature]	
<b>Turnaround Time:</b>		<b>Standard:</b> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		<b>Bacteria (only):</b> <input checked="" type="checkbox"/> <input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		<b>Sample Condition:</b> Observed Temp. °C: Corrected Temp. °C:	

**REMARKS:**  
 All Results are emailed. Please provide Email address:  
 Verbal Result: ☐ Yes ☐ No      Add'l Phone #:   
 TPH 8015 M  
 BTEX 8021 B  
 Chlorides 4500  
 WFE  
 12/28/17  
 Sam



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg. 4 of 4

Company Name: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
Project Manager: Beaux Jennings				P.O. #:							
Address: 601 N Marlenfeld Street, Suite 400				Company: Oxy USA Inc.							
City: Midland				State: TX Zip: 79701				Attn: Wade Dittich			
Phone #: 210-219-8858				Fax #:				Address:			
Project #: 03B417062				Project Owner:				City:			
Project Name: North Corridor WOF				State:				Zip:			
Project Location: Eddy County				Phone #: 575-390-2828							
Sample Name: Speed Alley				Fax #:							
FOR LAB USE ONLY											
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	
					ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME		
42A100910	FS-31	0-25	C	1	X			12/24/22	1220	TPH 8015 M	
31	FS-32	0-25	C	1	X			12/24/22	1222	BTEX 8021 B	
32	FS-33	0-25	C	1	X			12/28/22	1224	Chlor: deg	
33	FS-34	0-25	C	1	X			12/28/22	1226		
34	FS-35	0-25	C	1	X			12/28/22	1228		
35	FS-36	0-25	C	1	X			12/28/22	1231		
36	FS-37	0-25	C	1	X			12/28/22	1232		
37	FS-38	0-25	C	1	X			12/28/22	1233		
38											
PLEASE NOTE: Liability and Damages, Cardinal's liability and claims exclusion remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. 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 within 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: 12/28/22	Received By:		Date: 12/28/22		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:				
Relinquished By:		Time: 12:41	Received By:		Time: 12:41		All Results are emailed. Please provide Email address:				
Delivered By: (Circle One)		Observed Temp.: 5.5C	Sample Condition:		CHECKED BY:		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				
Sampler - UPS - Bus - Other:		Corrected Temp.: 4.9C	Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermal ID #13: 0-0.0C		Bacteria (only) Sample Condition: <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp.: 0C				

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August 14, 2023

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

RE: NORTH CORRIDOR WPF

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 12:27.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/08/2023  
 Reported: 08/14/2023  
 Project Name: NORTH CORRIDOR WPF  
 Project Number: 03B1417062  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/08/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 5 (H234233-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	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	48.0	16.0	08/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	173	86.4	200	0.787	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	177	88.7	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 6 (H234233-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	173	86.4	200	0.787	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	177	88.7	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 7 (H234233-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	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	32.0	16.0	08/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 8 (H234233-04)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88	
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70	
Total BTEX	<0.300	0.300	08/09/2023	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	32.0	16.0	08/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 9 (H234233-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88		
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70		
Total BTEX	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	08/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 10 (H234233-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88		
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70		
Total BTEX	<0.300	0.300	08/09/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 11 (H234233-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	2.88		
Toluene*	<0.050	0.050	08/09/2023	ND	1.97	98.3	2.00	2.55		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.00	99.9	2.00	2.65		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.93	98.8	6.00	1.70		
Total BTEx	<0.300	0.300	08/09/2023	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	32.0	16.0	08/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417062	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: BG - 12 (H234233-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	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	32.0	16.0	08/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Ensolun, LLC</u>		P.O. #:		BILL TO		ANALYSIS REQUEST														
Project Manager: <u>Beau Jennings</u>		Company:																		
Address: <u>601 N Mainfield St. Suite 400</u>		Attn:																		
City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u>		Address:																		
Phone #: <u>210-219-8858</u> Fax #:		City:																		
Project #: <u>03B1417062</u> Project Owner:		State:																		
Project Name: <u>North Corridor WPF</u>		Phone #:																		
Project Location: <u>Eddy County, NM</u>		Fax #:																		
Sampler Name: <u>Samatha Prokhorov</u>																				
FOR LAB USE ONLY																				
Lab I.D. <u>11234237</u>	Sample I.D.	(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
	B6-5		X	X	X	X	X	X	X	X	X	X	8/8/23	1030	X	X	X	X	X	X
	B6-6		X	X	X	X	X	X	X	X	X	X	8/8/23	1032	X	X	X	X	X	X
	B6-7		X	X	X	X	X	X	X	X	X	X	8/8/23	1034	X	X	X	X	X	X
	B6-8		X	X	X	X	X	X	X	X	X	X	8/8/23	1036	X	X	X	X	X	X
	B6-9		X	X	X	X	X	X	X	X	X	X	8/8/23	1038	X	X	X	X	X	X
	B6-10		X	X	X	X	X	X	X	X	X	X	8/8/23	1040	X	X	X	X	X	X
	B6-11		X	X	X	X	X	X	X	X	X	X	8/8/23	1042	X	X	X	X	X	X
	B6-12		X	X	X	X	X	X	X	X	X	X	8/8/23	1044	X	X	X	X	X	X
	NFE																			
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: <u>[Signature]</u>		Date: <u>8/14/23</u>	Received By: <u>[Signature]</u>	Date: <u>8/14/23</u>	Time: <u>12:27</u>	Time: <u>12:27</u>	Observed Temp. °C <u>26</u>	Corrected Temp. °C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>YO</u>	Turnaround Time:	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C	Corrected Temp. °C			
Relinquished By: <u>[Signature]</u>		Date: <u>8/14/23</u>		Received By: <u>[Signature]</u>		Date: <u>8/14/23</u>		Time: <u>12:27</u>		Observed Temp. °C <u>26</u>		Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C		Corrected Temp. °C		
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <u>YO</u>		Turnaround Time:		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C		Corrected Temp. °C		
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <u>YO</u>		Turnaround Time:		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C		Corrected Temp. °C				
FORM 1000-R-3-4 07/11/23		† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com																		



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	nAPP2227954604
District RP	
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 # nAPP2227954604
Contact mailing address: PO Box 4294, Houston, TX 77210	

### Location of Release Source

Latitude 32.246737

Longitude -103.786239

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Corridor WPF	Site Type: Water Transfer Pump
Date Release Discovered: 10/04/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	4	24S	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 165	Volume Recovered (bbls): 160
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: 1-inch nipple internal corrosion.


State of New Mexico  
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 <a href="mailto:OCD.enviro@emnrd.nm.gov">OCD.enviro@emnrd.nm.gov</a> and <a href="mailto:BLM_NM_CFO_Spill@blm.gov">BLM_NM_CFO_Spill@blm.gov</a> on 10/05/2022 at 0842.	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Wade Dittrich</u>	Title: <u>Environmental Specialist</u>
Signature: <u></u>	Date: <u>2-23-23</u>
email: <u>wade_dittrich@oxy.com</u>	Telephone: <u>575-390-2828</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

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## 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?	<u>&gt;100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

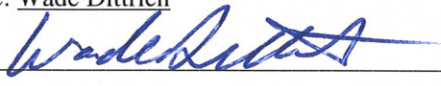
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2227954604
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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 Specialist

Signature: 

Date: 2-23-23

email: wade\_dittrich@oxy.com

Telephone: 575-390-2828

OCD Only

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Incident ID	nAPP2227954604
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## 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 Specialist

Signature: 

Date: 2-23-23

email: wade\_dittrich@oxy.com

Telephone: 575-390-2828

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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 251926

CONDITIONS

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  251926
	Action Type:  [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2227954604 NORTH CORRIDOR WPF, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/22/2024