



# **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:

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# 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.



 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

Operator:	Oxy USA Inc. (Oxy)
Site Name:	North Corridor WPF
Location:	32.247 N, 103.787 W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

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

# 1.3 **Project Objective**

The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

# 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references NMAC 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum utilized information provided by Oxy, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.

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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								
	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg								
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg								
>100 feet	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.

August 14, 2023



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.
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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.



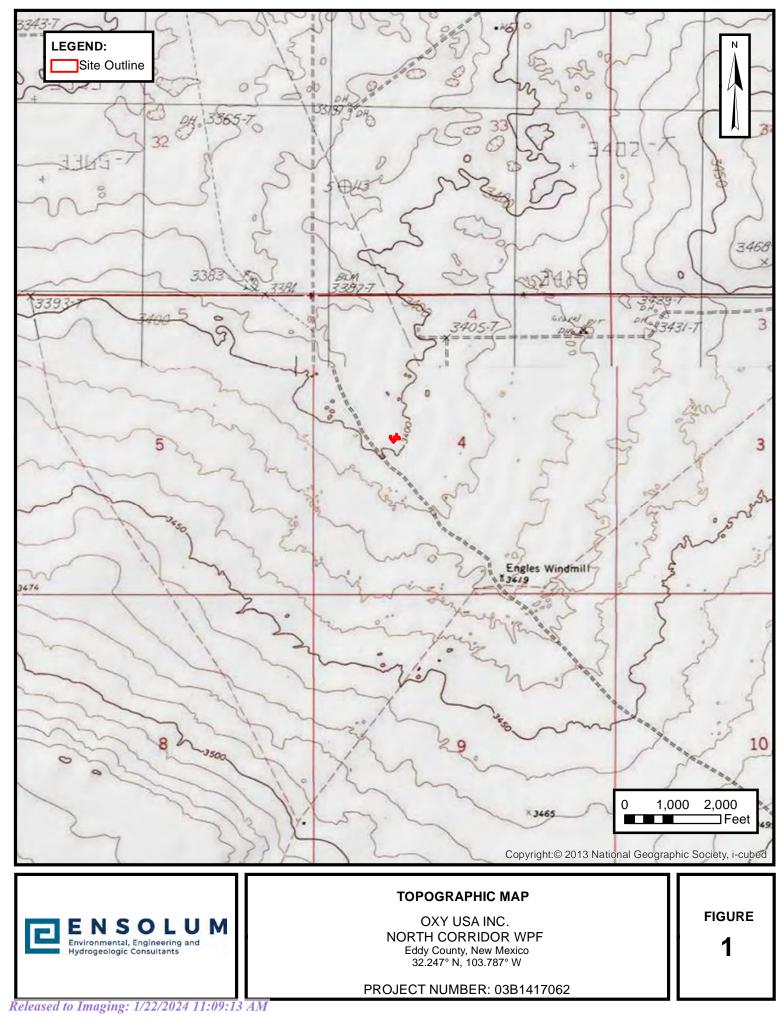
# APPENDIX A

Figures

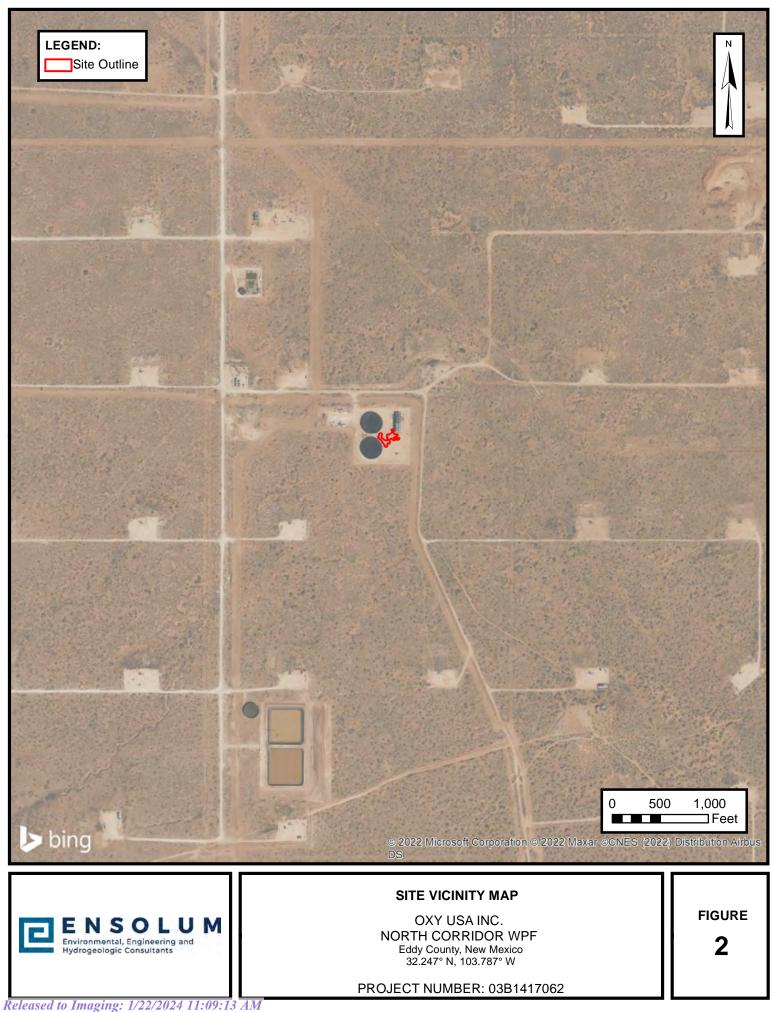
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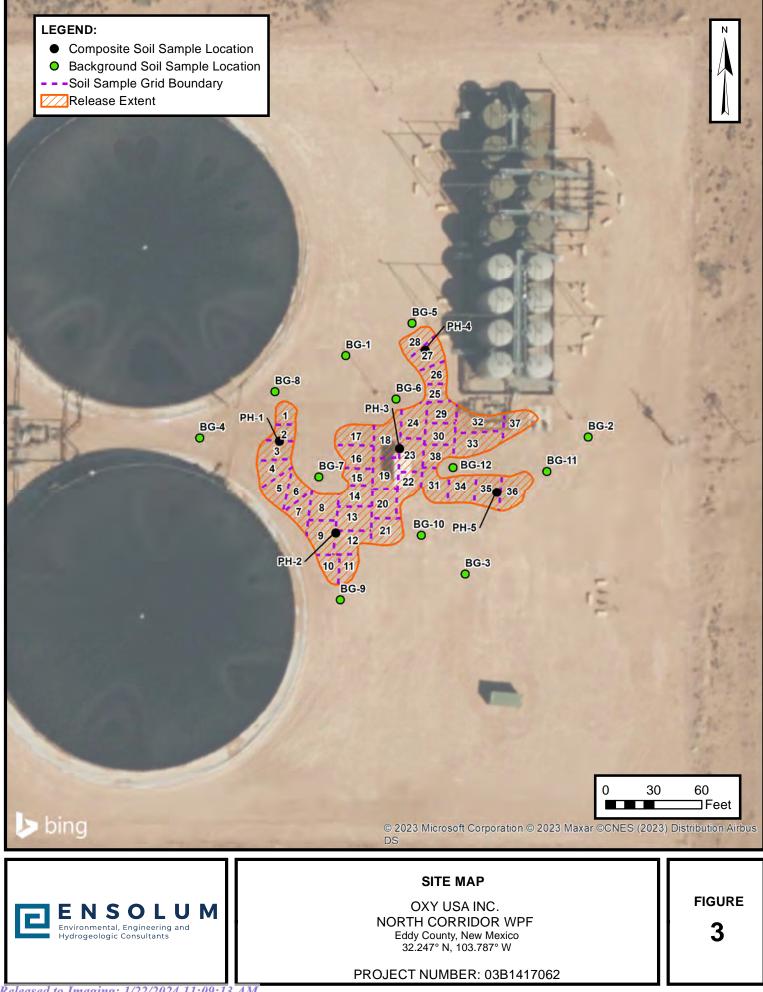
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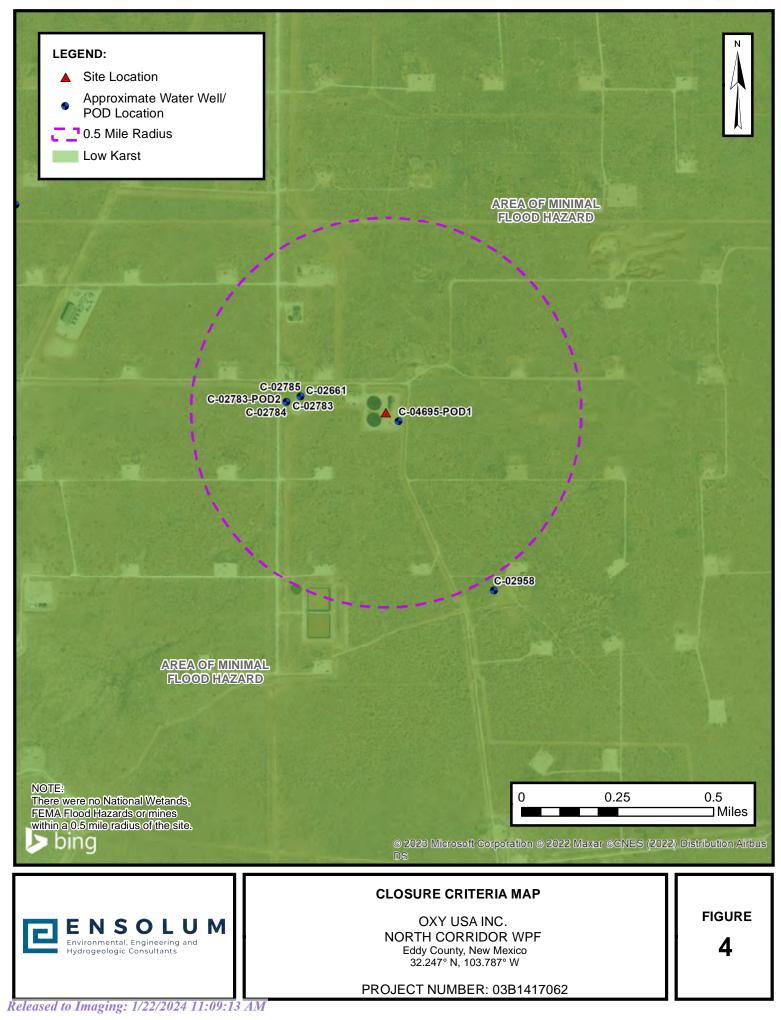
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APPENDIX B

Supporting Documentation

Client: <u>Oxy USA Inc.</u> Project Name: <u>North Corridor WPF</u> Project Location: <u>Eddy County, New Mexico</u> Project Manager: <u>Beaux Jennings</u>			SOI	LB	OF	RIN	١G	i / W	ELL LOG
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Geologist: Kelly Lowery	Sampler: Kelly Lov	wery							
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Sampler Type: <u>AR</u>									
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	NR - No Recovery					-		1		

# **E** ENSOLUM

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# **Beaux Jennings**

From:	Beaux Jennings
Sent:	Monday, October 10, 2022 10:48 AM
То:	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></ocd.enviro@emnrd.nm.gov>
Sent:	Wednesday, December 21, 2022 5:31 PM
То:	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 http:// www.emnrd.nm.gov



From: Beaux Jennings <br/>
elipennings@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

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.

		1:72	,224	
0	0.5	1		2 mi
	- <sup>1</sup> <sup>1</sup>		<del>, ' , ' ,</del>	
0	0.75	1.5		3 km

Esri, HERE, Garmin, Earthstar Geographics

# Received by OCD: 8/14/2023 2:26:23, PM National Flood Hazard Layer FIRMette



# Legend

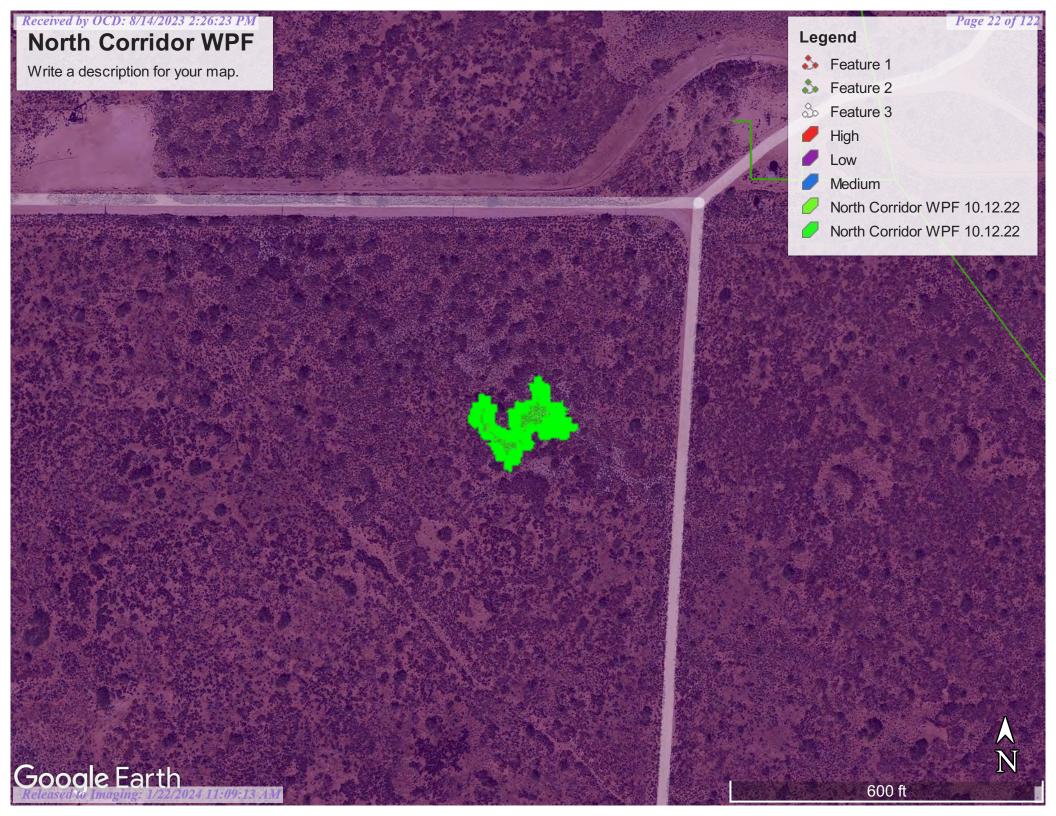
regulatory purposes.

Page 21 of 122

103°47'30"W 32°15'2"N SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) Zone A. V. A9 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS **Regulatory Floodway** 35015C1400D 0.2% Annual Chance Flood Hazard, Areas 6/4/2010 of 1% annual chance flood with average depth less than one foot or with drainage **Not Printed** 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 OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - — – – Channel, Culvert, or Storm Sewer GENERAL STRUCTURES LIIII Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation AREA OF MINIMAL FLOOD HAZARD Eddy County **Coastal Transect** Base Flood Elevation Line (BFE) Zd e X 350120 Limit of Study Jurisdiction Boundary — --- Coastal Transect Baseline OTHER **Profile Baseline** FEATURES Hydrographic Feature 35015C1650D **Digital Data Available** eff. 6/4/2010 No Digital Data Available MAP PANELS 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 103°46'52"W 32°14'32"N Feet 1:6.000 unmapped and unmodernized areas cannot be used for

Releasea to Imaging: 1/22/2024 PP.09:13 AM 1,500 2.000

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



# **OSE POD Locations Map**





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

• Recently Edited PODs New Mexico State Trust Lands

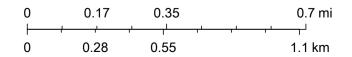
# GIS WATERS PODs

- Active
- Plugged
- Both Estates

Subsurface Estate

SiteBoundaries

# 1:18,056

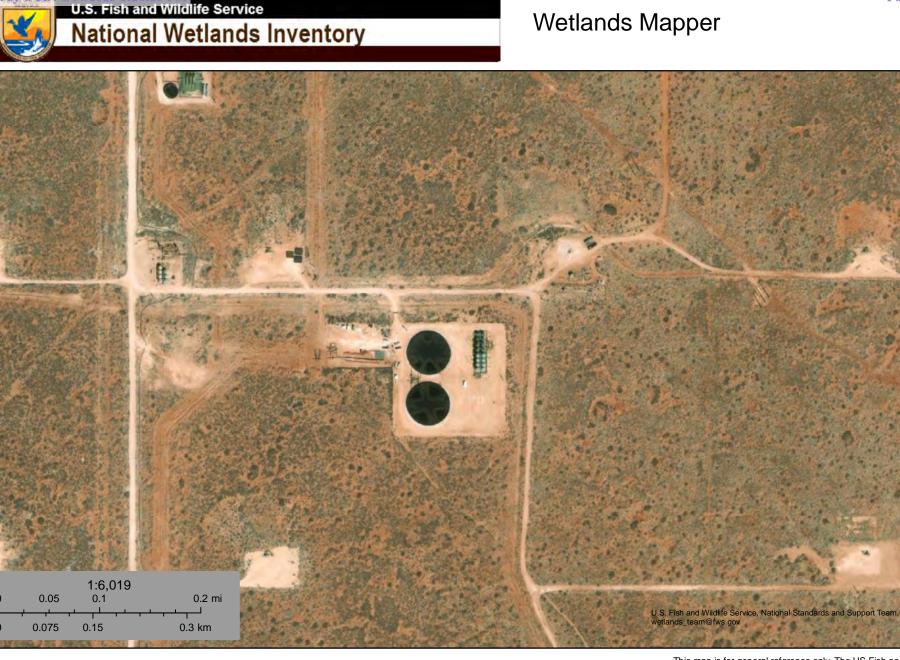


Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

**Released to Imaging: 1/22/2024 11:09:13 AM** 

OSE District Boundary

### Web Generated Map Map is generated by web users.



Lake

Other

Riverine

Freshwater Emergent Wetland

**Freshwater Pond** 

Freshwater Forested/Shrub Wetland

# December 23, 2022

### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

# Released to Imaging: 1/22/2024 11:09:13 AM

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

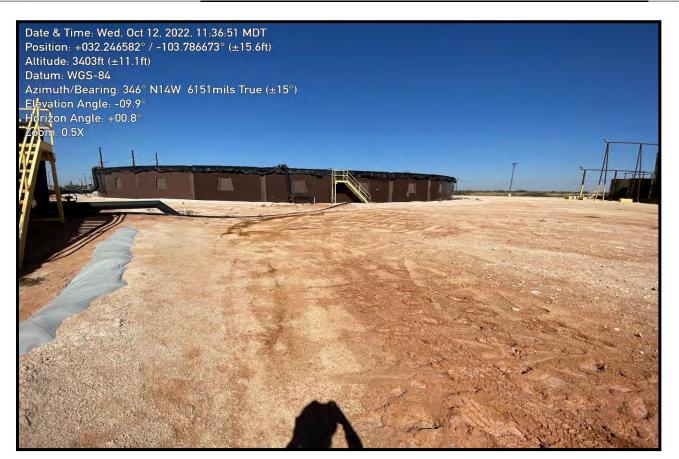
Photographic Documentation



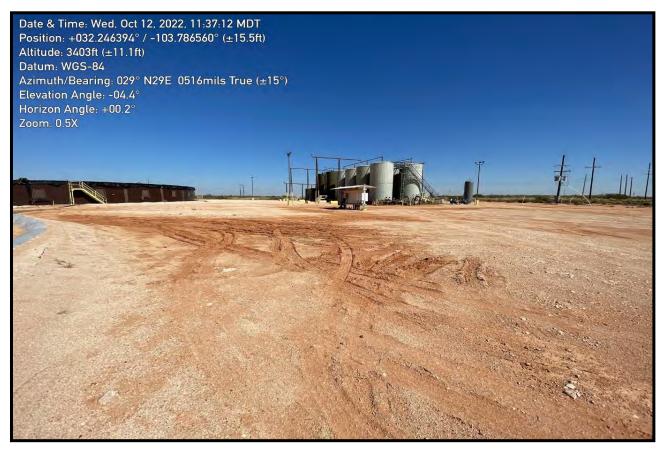
View of release point and impact area during intitial investigation activities, facing northwest.



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



# View of impact area during intitial investigation activities, facing northwest.



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



# APPENDIX D

Tables

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	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)
		Division Closure a Release (> 100	10	NE	NE	NE	50	1,000	NE	2,500	20,000
					Floor Soil Sam	ole Analytical R	esults				
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	<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	<10.0	336
FS-24	12/28/2022	0 - 0.25	<0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0 710	<10.0	<10.0	6,560
FS-25	12/28/2022	0 - 0.25	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	188	898	4,720
FS-26 FS-27	12/28/2022 12/28/2022	0 - 0.25 0 - 0.25	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	<10.0	<10.0 <10.0	<10.0 <10.0	432 1,200
FS-27 FS-28	12/28/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0 477	<10.0 373	<10.0 850	1,200
FS-28 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-29 FS-30	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 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-31	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

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	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)
		Division Closure a Release (> 100	10	NE	NE	NE	50	1,000	NE	2,500	20,000
					Pothole Soil Sar	mple Analytical	Results				
		0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
PH-1	10/26/2022	1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16.0
FIFI	10/20/2022	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
		0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,920
PH-2	10/26/2022	1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	920
	10/20/2022	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
		0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,360
PH-3	10/26/2022	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
	10/26/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
PH-4		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
		0 - 1	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,080
PH-5	10/26/2022	1-2	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0 <10.0	<10.0	<10.0	128
	1	2 - 3	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
	I	3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	112
BG-1	10/26/2022	0 - 0.25	<0.050	<0.050	Sackground Sar <0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
BG-1 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-2 BG-3	10/26/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<16.0 32.0
BG-3 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-4 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-5 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-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



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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 0-1' (H225048-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 69.9-14	0						
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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	124 9	% 46.3-17	0						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
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	Analyze	d 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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	116 9	% 46.3-17	8						

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BEAUX JENNINGS
705 W WADLEY AVE.
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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	Analyze	ed 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	% 69.9-14	0						
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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	% 69.9-14	0						
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	Analyze	d 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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	124 9	46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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BEAUX JENNINGS
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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	121 9	% 46.3-17	0						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	126 9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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MIDLAND TX, 797	05
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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	122	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	125 9	% 46.3-17	0						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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		′kg	Analyze	d 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 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 9	% 46.3-17							

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	124 9	46.3-17	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115 9	% 46.3-17							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSC	LUM, LLC
BEAU	X JENNINGS
705 V	V WADLEY AVE.
MIDL	AND TX, 79705
Fax T	o:

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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/28/2022	ND	416	104	400	3.92	
TPH 8015M mg/kg		/kg	Analyze						
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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	111 9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSO	LUM, LLC
<b>BEAU</b>	( JENNINGS
705 W	WADLEY AVE.
MIDLA	ND 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115 9	% 46.3-17	_						

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Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8021B	mg/	'kg	Analyze	d 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	87.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 9	46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	124	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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 \$	45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 9	46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	173	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	108	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 9	46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



03B1417062

OXY - EDDY CO., NM

Sample Received By:

10/26/2022

Cool & Intact

Tamara Oldaker

Soil

### Analytical Results For:

	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
10/26/2022		Sampling Date:
11/01/2022		Sampling Type:
NORTH CORRIDOR	WPF	Sampling Condition:

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

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/	kg	Analyze	d 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	% 69.9-14	0						
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	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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	152 9	46.3-17	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
10/26/2022		Sampling Date:
11/01/2022		Sampling Turpa

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	Analyze	d 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	% 69.9-14	0						
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	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	170	% 46.3-17	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	116 9	46.3-17	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
0/26/2022		Sampling Data:

10/26/2022	Sampling Date:	10/26/2022
11/01/2022	Sampling Type:	Soil
NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
03B1417062	Sample Received By:	Tamara Oldaker
OXY - EDDY CO., NM		
	11/01/2022 NORTH CORRIDOR WPF 03B1417062	11/01/2022Sampling Type:NORTH CORRIDOR WPFSampling Condition:03B1417062Sample Received By:

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

BTEX 8021B	mg/	′kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	114 9	% 46.3-17	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Company Name: Ensolv Project Manager: Beaux Address: 601 N. Marienf City: Midland Phone #: 432 - 230 Project #: 033 141706 Project Name: North Project Location: Each Sampler Name: Shorth	Ensolum, LLC Beaux Jennin Marienfeld St. STE 1417062 Work Corri Eddy Co	State: TX ax #: いりアブ	Zip:	79701 MATRIX	P.O. #: Company: ( Attn: Wade Address: City: City: State: Phone #: 5 Fax #:		Oxy U: de Dittric Zip: 575-39	Oxy USA, de Dittrich Zip: 575-390-2 SA	Oxy USA, Inc. de Dittrich Zip: 575-390-2828 SAMPLING	Coxy USA, Inc. de Dittrich 575-390-2828 575-390-2828	Coxy USA, Inc. de Dittrich 575-390-2828 575-390-2828
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER :	OTHER :	DATE	D	DATE TIME	DATE TIME	DATE TIME TO BOIS
240	PHI	0-1		x x c	к X	2	N	7 511 22.92-0		1136 ×	1134 × ×
n a	DH1	2-3	00		K		11	1138		X	×
4	141	1	0	1 X	x		11	-	-	XX	XX
5		0-1	00	× ×	X		11	1146	1140 × ×	* *	XX
26	2 Hd	2.3	0		×		11		X	00	X X 8
00-	N .	1	0	1 ×	. X		1 1	1150	XOX	XXO	XXO
· 9	549	Ĩ	2	- -	×		44	12-140-R	104415	X ALTIN X	White x x
DUEASE NOTE: Lability and unalyses. All claims including	D PH3 I - Z C K K K K K K K K K K K K K K K K K K	/ - Z C lent's exclusive remedy for any cil r cause whatsoever shall be deem	ny claim deemed	arising whether based in contra waived unless made in writing a limitation, business interruption	sher based in contract or fort, shall be limited to the ess made in writing and received by Cardinal within business interruptions, loss of use, or loss of profils i	/d - 2 - o the amoun Athin 30 days	t paid by the after comp	after completion of the atter	after completion of the applicable by client, its subsidiaries.	-	-
Relinquished B	sing out of or related to the performance of the sector matching of	Date: 10-26-22	Re	Received By:			All	Verbal Resu All Results a BJennings	Verbal Result:	Verbal Result:  Verbal Result:  No All Results are emailed. Please pr BJennings@ensolum.com	을 흩니
Relinquished By:	1002	Dáte:	Re	Received By:	1 and	9	ᇛ	REMARKS:	REMARKS:	REMARKS:	REMARKS:
	oy.	Time:					-	1	1		

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Page 58 of 122

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240 (575) 393-3326 EAX (575) 393-3476

Company Name: Ensolum. LLC	(272) 333-2328 FAX (272) 393-2476 Ensolum LLC	476			BILL TO		L			ANAI VOIC		DECHEST
Project Manager: Beque	Jennings		P.O.	0. #:					-			-KOLO
Address: 601 N. Marienfeld St. STE 400	St. STE 400		0	Company:	Oxy USA,	Inc.	_			_		
City: Midland	State: TX	Zip:	79701 At	Attn: Wa	Wade Dittrich							
Phone #: 432-230-3	7344 Fax #:		Ad	Address:						_		
Project #: 033/4/1062	Project Owner:	n O	XY City:	by:								
Project Name: North C	arrida W	20	St	State:	Zip:				0		_	
Project Location: Eddy	Co Nm		Ph	Phone #:	575-390-2828	828	5		0		_	
Sampler Name: Stene	D. Iles		Fa	Fax #:			- 1	216	45			
FOR LAB USE ONLY		1P.	MATRIX	PRESERV.		SAMPLING	015	302	5			
Lab I.D. Sample I.D.	I.D. Sample Depth (feet)	G)RAB OR (C)OM	BROUNDWATER VASTEWATER SOIL DIL SLUDGE DTHER :	CID/BASE: CE / COOL		TIME	TPH B	BTEX &	Chlor des			
11 04 3	2-3	-	X	XI		10-26-22 1158	×	×	< 1			
12 PH 3	19-5	0	×	ĸ	_	1200	×	x	X			
HH El	0-1	0	ĸ	К		1206	×	X	K			
h Hd hl	1-2	0	x	X		8021	ĸ	ĸ	×			
15 PH 4	2-3	0	×	×	_	1210	ĸ	N	<			
16 DH 4	3-4	0	×	X	_	1212	×	y	×	_		
5 410 21	0-1	0	K	×		1218	X	X	*	_		
5 Hd 81	2-1	0	ĸ	×		1220	×	x	K			
5 Hd bl	5-3	C	×	×	4	1222	x	×	X	_		
20 PH 5		0	ĸ	×	10-26-22	1224	×	×	×			
analyses. All claims inclusinages, curcrains isacitivity and client's exclusive termolyty for any claim raining 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 cursies that the deemed waived unless made in writing and necelived by Cardinal within 30 days after completion of the applicable service. In no worst shall Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries; atfiliates or successors arising out of or related to the performance of services have more than subsidiaries interruptions, loss of use, or loss of profits incurred by client, its subsidiaries;	utify and client's exclusive remedy for any claim arising of any other cause whatsoever shall be deemed waived intal or consequential damages, including without limitate beformance of sendons becauder by Cardinal resource.	ny claim aris deemed wah without limit	ing whether based in contract or tort, shall be limited to the red unless made in writing and received by Cardinal within aston, business interruptions, loss of use, or loss of profits & writing of unless interruptions.	shall be limite ed by Cardina Ise, or loss of	ort, shall be limited to the amount paid by the cilent for the ceived by Cardinal within 30 days after completion of the a of use, or loss of profits incurred by cilent, its subsidiaries	ount paid by the client for the ays after completion of the a red by client, its subsidiaries.	he rapplicable rat,					
Relinquished By:	Date: 71.22	Recei	Received By:	NNN	at particle anorthe bar in a first inder prosent of	Verbal Result:	ult:	U Yes	ON O	Add'l Phone #:	e#	
Sut file	Time; 403	P	Janara 1/2		es la	All Results are emailed. BJennings@ensolum.o	are ema s@ensol	0 1	ease pro	<u>&lt;</u>	dress:	
Kelinquished By:	Date: Time:	Recei	Received By:			REMARKS:						
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp, "C Corrected Temp, "C	2.5	Sample Condition	CHEC	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #1	1 Time:		Standard Rush		Bacteria (only) Cool Intact	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
I ONW DOD IN SIG INITING	† Cardinal ca	Innot a	Cardinal cannot accept verbal changes. Please email changes to celey.keene@	. Please	email cha	nges to cel	ev.keen	A@car	dinalla	1.com		Contected Temp. C

## Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240

1 2707-000 (010)	FAN (010) 000-2410			
Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST
21	S Survey	P.O. #:		
Address: 601 N. Marienfeld St. STE 400	2400	Company: Oxy USA,	, Inc.	
City: Midland	State: TX Zip: 79701	Attn: Wade Dittrich		
Phone #: 432 230 3344	Fax #:	Address:		
Project #: 038,417062	Project Owner:	City:		
Project Name: Marth Court de	wpF	State: Zip:	2	
12	N/ mar	the Ci	828	
	1000	1	m 16	
Sampler Name: Shere D. 11	~	Fax #:	21	10
FOR LAB USE ONLY	MATRIX	PRESERV. SAM	02	r
Lab I.D. Sample I.D.	(feet) Oppth (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	ACID/BASE: ICE / COOL OTHER :	TPH BO	
1-98 12	×	X	× × × 2151 2	
36-3	025 C K	4 10-26-22	x x y 1/6/20	
23 36-3	025 C X	× 10-26-23	× × × 81812	
24 36-4	X 752-0	× 10-26-22	X × × 1261 21	
	10. 10 10 10 10 10 10 10 10 10 10 10 10 10			
	Ì	/		
PIEASE NOTE: Labelity and Damages. Cardina's labelity and cli- pranalyses. All claims including those for negligence and any other service: In no event shall Cardinal be lable for incidental or con- affiliates or successors arising out of or related to the performance affiliates or successors arising out of or related to the performance	PLEASE NOTE: Libbility and Damages. Caridina's lability and cilent'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 nogligence and any other cause whatsoever thall be deemed waived unless made in writing and received by Cardinal wittin 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, loss of use, or loss of profits incurred by client, its subsidiaries, artificites or successors taking out of or related to the performance of services hereunded by Cardinal , repardies or whether such claims is based upon any of the above stated reasons or otherwise.	ct or tort, shall be limited to the amount print nd received by Cardinal within 30 days afti- toss of use, or loss of profits incurred by n is based upon any of the above stated n	aid by the client for the for completion of the applicable ( client, its subsidiaries, reasons or otherwise.	
Relinquished By:	Date: 10-22 Re	11	Result:  Yes Vits are emailed. Ple	No Add'I Phone #: ase provide Email address:
Relinquished By:	Date: Received By:	Mar Mar	BJennings@ensolum.com REMARKS:	
	Time:			
Delivered By: (Circle One) 0.	Observed Temp. C 2.5 Sample Condition	tion CHECKED BY:	Turnaround Time: Stan	Standard Bacteria (only) Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C 1.9

Cool Intact

(Initials)

Correction Factor -0.5°C

Rush 0

Cool Intact

Observed Temp. °C Corrected Temp. °C

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



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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 - 1 0-.25' (H226090-01)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.9	% 46.3-17	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
12/28/2022		Sampling Date:

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 - 2 0-.25' (H226090-02)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.0	% 46.3-17							

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 - 3 0-.25' (H226090-03)

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.1	46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
12/28/2022		Sampling Date:

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 - 4 0-.25' (H226090-04)

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
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	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	107 9	6 46.3-17	8						

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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 - 5 0-.25' (H226090-05)

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
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	12/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.5	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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 - 6 0-.25' (H226090-06)

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
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	12/29/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	100 9	46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



03B1417062

OXY - EDDY CO., NM

Sample Received By:

12/28/2022

Cool & Intact

Shalyn Rodriguez

Soil

### Analytical Results For:

	ENSOLUM, LLC BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
12/28/2022		Sampling Date:
01/03/2023		Sampling Type:
NORTH CORRIDOR	WPF	Sampling Condition:

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

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/	'kg	Analyze	d 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 9	% 69.9-14	0						
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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115 9	46.3-17	8						

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	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
12/28/2022		Sampling Date:

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 - 8 0-.25' (H226090-08)

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.1 \$	46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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 - 9 0-.25' (H226090-09)

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
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	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	<i>99.7</i> 9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC	
BEAUX JENNINGS	
705 W WADLEY AVE.	
MIDLAND TX, 79705	
Fax To:	
12/28/2022 Sampling Date:	
12/20/2022 Sampling Date.	

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 - 10 0-.25' (H226090-10)

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	103 9	6 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
2/20/2022		Compling Dates

12/28/2022	Sampling Date:	12/28/2022
01/03/2023	Sampling Type:	Soil
NORTH CORRIDOR WPF	Sampling Condition:	Cool & Intact
03B1417062	Sample Received By:	Shalyn Rodriguez
OXY - EDDY CO., NM		
	01/03/2023 NORTH CORRIDOR WPF 03B1417062	01/03/2023Sampling Type:NORTH CORRIDOR WPFSampling Condition:03B1417062Sample Received By:

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.0	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
12/28/2022		Sampling Date:

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 - 12 0-.25' (H226090-12)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.4	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	75.7	% 46.3-17	8						

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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 - 14 0-.25' (H226090-14)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.9	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	66.6	% 46.3-17	8						

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	705 W WADLEY AVE.		
	MIDLAND TX, 79705		
	Fax To:		
12/28/2022		Sampling Date:	
01/02/2022		Compling Types	

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 - 16 0-.25' (H226090-16)

BTEX 8021B	mg/	'kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	65.7	% 46.3-17	8						

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	705 W WADLEY AVE.		
	MIDLAND TX, 79705		
	Fax To:		
12/28/2022		Sampling Date:	
01/03/2023		Sampling Type:	

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 - 17 0-.25' (H226090-17)

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.0 \$	46.3-17	8						

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ENSOLUM, LLC	
BEAUX JENNINGS	
705 W WADLEY AVE.	
MIDLAND TX, 79705	
Fax To:	
12/28/2022 Sampling Date:	

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 - 18 0-.25' (H226090-18)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	78.4 9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



03B1417062

OXY - EDDY CO., NM

Sample Received By:

12/28/2022

Cool & Intact

Shalyn Rodriguez

Soil

# Analytical Results For:

	ENSOLUM, LLC		
	BEAUX JENNINGS		
	705 W WADLEY AVE.		
	MIDLAND TX, 79705		
	Fax To:		
12/28/2022		Sampling Date:	
01/03/2023		Sampling Type:	
NORTH CORRIDOR \	NPF	Sampling Condition:	

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

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/	′kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.6	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 - 20 0-.25' (H226090-20)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

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	BEAUX JENNING	S	
	705 W WADLEY	AVE.	
	MIDLAND TX, 7	9705	
	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

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

OXY - EDDY CO., NM

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	101 9	46.3-17	0						

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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 - 22 0-.25' (H226090-22)

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	8						

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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 - 23 0-.25' (H226090-23)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107 9	% 46.3-17							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	MIDLAND TX, 79705	
	Fax To:	
12/28/2022		Sampling Date:

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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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 9	6 45.3-16	1						
Surrogate: 1-Chlorooctadecane	109 9	6 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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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)

BTEX 8021B	mg/	kg	Analyze	d 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 \$	69.9-14	0						
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	Analyze	d 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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	114 9	46.3-17	8						

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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 - 26 0-.25' (H226090-26)

BTEX 8021B	mg/	′kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.9	% 46.3-17	8						

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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 - 27 0-.25' (H226090-27)

BTEX 8021B	mg/	′kg	Analyze	d 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	% 69.9-14	0						
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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101 9	% 46.3-17	8						

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MIDLAND TX, 79705	
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BEAUX JENNINGS	
ENSOLUM, LLC	

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 - 28 0-.25' (H226090-28)

BTEX 8021B	mg/	kg	Analyze	d 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	69.9-14	0						
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	12/29/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.3	46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.6	% 46.3-17	8						

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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 - 30 0-.25' (H226090-30)

BTEX 8021B	mg/	′kg	Analyze	d 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	97.4	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102 9	% 46.3-17	8						

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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 - 31 0-.25' (H226090-31)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 69.9-14	0						
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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103 9	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

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	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
12/28/2022		Sampling Date:

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 - 33 0-.25' (H226090-33)

BTEX 8021B	mg/	kg	Analyze	d 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	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.7	46.3-17	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.6	% 46.3-17	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 - 35 0-.25' (H226090-35)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.6	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.6	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



03B1417062

OXY - EDDY CO., NM

Sample Received By:

12/28/2022

Cool & Intact

Shalyn Rodriguez

Soil

# Analytical Results For:

	ENSOLUM, LLC	
	BEAUX JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
12/28/2022		Sampling Date:
01/03/2023		Sampling Type:
NORTH CORRIDOR	WPF	Sampling Condition:

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

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.6	% 46.3-17	8						

## Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.6	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

## **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 Ea	Lat
st Marland,	RD
101 East Marland, Hobbs, NM 88240	IN
88240	PS -

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(5/5) 333-23 Company Name: Ensolum, LLC	(5/5) 393-2326 FAA (5/5) 393-24/6 : Ensolum, LLC	AX (5/5) 393-2	4/6									0	Ĩ	BILL TO					AN	ANALYSIS	Sis		ñ	Ĕ	REQUEST						
Project Manager	Project Manager: Beaux Jennings								σ	P.O. #:	*					_	-	-	-	-			-		-	_		-			_
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	lite 400							C	m	par	ιY:	×0	Company: Oxy USA Inc.			_	/	_	-								-			-
City: Midland		State: TX	Zip:	Zip: 79701	2				Þ	ttn	×	ade	Di	Attn: Wade Dittrich			_		_												
Phone #: 210-219-8858	9-8858	Fax #:							Þ	ddr	Address:	**				_		_	1	_								_			-
Project #: 03	2904141250	Project Owner:	a						0	City:									/	_											
i i	North Corrido	der WAT							S	State:			N	Zip:		_	_	6	-	1	-		_					-			-
Project Location:	Eddy Co								σ	hor	Phone #:	5	5	575-390-2828		M	>	50	-	-	12	T			-			-		_	_
Sampler Name:	Shanp	é							π	Fax #:	27					51	B	4	-	-	/		_					_		-	-
FOR LAB USE ONLY				_		s	MATRIX	×		P	RES	PRESERV.	<	SAMPLING		7/	[	_	-	-		/	_		_			_			_
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 80	BTEX 802	Chlorides				/		\$212	1	22/	2				
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S	FS-3	0:15	$\cap$	-	-	-	P	-	-	+	5	X	-	24182121	1152	X	C	X	+	-			-		1			1		1	_
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PLEASE NOTE: Liability and Dam	$10$ $\beta_{5} = 10$ $0 = 25$ $0$ $                                 $	0 - 25 client's exclusive remedy for a	edy for any claim	arising whether based in contract or tort, shall be lim	wheth	er bas	edino	ontra	dort	ort st		limite	d to the	2128/27	paid by the client for the	A	K	×		$\vdash$											_
service, in no event shall Cr affiliates or successors arisin	ervice, Is 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 subaidiaries of successors arising out of or related to be performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	sequental damages, including without limitation, busic ce of services hereunder by Cardinal, regardless of w	g without Cardinal,	limitatio	on, bus	iness i wheth	nternu er sud	uptions, loss of use, or loss of profits incu of claim is based upon any of the above	n is br	of us	e, or l	ons of	f profit	is incurred by clier bove stated reaso	nt, its subsidiaries, ans or otherwise.					0											
Relinquished By	all a	Time: 12/18/22	Rece	Nei	yed By	JAK	IHI	$\mathcal{N}_{  }$	201	VI	A	1	1-		Verbai Result:	re ema	D Yes nailed. P	lease pro	Ado	Add'I Phone #: ide Email addre	add	ress									
Relinquished B	A	Date: Date:	Re	Received By:	T all	8 3	2	5	2.	$\mathcal{Q}$	5		C	X	REMARKS:											0 11					
Delivered By: (Circle One)		Observed Temp. of	S	c:	C So	Sample Condition Cool Intact	e Co	e Cond Intact	tion	<	No	1	Initials	BY:	Turnaround Time:	Time:	710	Standard Rush		Q m	acte	Inta	only	) Sa	Bacteria (only) Sample Condition Cool Intact Observed Temp.	Ved	Ter	ample Condition Observed Temp. °C	0		_
Sampler - UPS - Bus - Other:		Corrected Temp. °E	ie	** (		Ž	Yes D	Yes	Yes	-	1	y.	R		Thermometer ID	-	p	0.1.0	5		Yes Yes	ĵ	Yes			ntar	Te	Corrected Temp. °C	5		_

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg. 200 4

Released to	Imaging:	1/22/2024	11:09:1	3 AM	

Company Name	Company Name: Ensolum, LLC			BIL	BILL TO		ANA	ANAI YSIS REDITEST	
Project Manage	Project Manager: Beaux Jennings			P.O. #:					
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	uite 400		Company: Oxy USA Inc.	ty USA Inc.		/		
City: Midland		State: TX	Zip: 79701	Attn: Wade Dittrich	ittrich		2		
Phone #: 210-219-8858	9-8858	Fax #:		Address:					
Project #: 03	03B1417062	Project Owner:	ar.	City:			_		_
Project Name:	North Corr.	der WPF			Zip:		_		
Project Location:	1: Eddy County			#: 575	390-2828	4	00		
Sampler Name:	Shint Dill	C		Fax #:		B	45		
FOR LAB USE DNLY			MATRIX		SAMPLING	\$5 21		TE	_
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	SLUDGE DTHER : ACID/BASE: CE / COOL DTHER :	DATE TIME	TPH 80 BTEX 80	Chlorides	221 5-2 121	
11	FS-11	22:-0	-	x	-	XXX		~	+
12	45-17	075	X 1 X	X	8.511 218212	X	×		
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14	15-14	025	CI X	X	0021 24122	XX	5		
5	13-15	52-0	X 1 J	X	0021 248212	XXX			
16	15-16	220	C V X	X	1021224201	XXX	0		/
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XI IX	8-18	0-25	CI X	X	21200 1203	XXX			
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PLEASE NOTE: Liability and	FS-26	075		1 1 1	12/28/21 12.05	XXX	^		/
analyses. All claims including service, in no event shall Car affiliates or successors arising	in Jamages, Lardina's liability and di ig those for negligence and any other ardinal be liable for incidental or consu ig out of or related to the performance	lent's exclusive remedy for any clain cause whatsoever shall be deemed equental damages, including withou s of services hereunder by Cardenal		tract or tort, shall be limited to tr g and received by Cardinal within ons, loss of use, or loss of profits	he amount paid by the client in 30 days after completion o a incurred by client, its subsid	for the f the applicable liaries,			
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Sampler - UPS - Bus - Other:

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Cool Intact A Yes A Yes No No No Sample Condition

Thermometer ID #113 Correction Factor -0.5°C Turnaround Time:

1

5

Standard Q

DB

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

Corrected Temp. °C

CHECKED BY: (Initials

Q

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

elivered By: (Circle One)

Relinquished

Received B

REMARKS:

Page 42 of 44

Refirquished By:	Shill.	affiliates or successors arising Relinguished By:	inalyses, All claims including envice. In no event shall Carr	BASE NOTE: LIDERCOOL	and a	2	en	20	87	24	200	8	2	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #: 0331417-06	Phone #: 210-219-8858	City: Midland	Address: 601 N	Project Manager	Company Name:	
(X	M	out of or related to the performer	nalyses. All claims including those for negligence and any other nalyses. All claims including those for negligence and any other invice. In no event shall Cardinal be liable for incidential or conear	FS- 30	1-5-29	F5- 28	F5-27	FS- 26	15-25	15- 24	Fr- 23	FS- 27	15-21	Sample I.D.	THE ALL AND	A	FALL Count	North Contil	290-ENHIS	9-8858		Address: 601 N Marienfeld Street, Suite 400	Project Manager: Beaux Jennings	Ensolum, LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Date: Date: Time: Observed Temp. "C Corrected Temp. "C	12/28/22 Time: 1341	toe of services hereunder by Cardinal, regardless of w	clients exclusive remody for any claim or cause whatsoever shall be deemed teacuantal damages includion without	025	025	0-,75	0-25	0:25	22:0	025	075	075	025	Depth (feet)		2/	. white	2	Project Owner:	Fax #:	State: TX	uite 400			, Hobbs, NM 88240 FAX (575) 393-2476
Received By: Sample Cool Cool Ima Cool Ima		hellier such	ense exclusive remoty for any claim arrang whether based in contract or tort, shall be intended to the environment paid by the clear for the cause whatsoever shall be deemed waived unlear and in writing and received by Cardinal within 30 days after completion of the appli cause whatsoever shall be deemed waived unlear and in writing and received by Cardinal within 30 days after completion of the appli cause whatsoever shall be deemed waived unlear and in writing and received by Cardinal within 30 days after completion of the appli cause whatsoever shall be deemed waived unlear and in writing and received by Cardinal within 30 days after completion of the appli caused at the applied of the applied	1 1	C 1 X		CIX	C I X	CIX	CIX	CIX	X 1 X	C I X	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MATRIX				er:		Zip: 79701				8240 2476
Ves Unitials)	A	daim is based upon any of the above	tract or tort, shall be limited to the a g and received by Cardinal within 30		X IZI	X 12/	121 × 121	21 X	XIII	121 7	121 X	21 X	χ 12/	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV	Fav #	# 575	State: Zin:	City:	Address:	Attn: Wade Dittrich	Company: Oxy USA Inc.	P.O. #:	BILL	
REMARKS: Y: Turnaround Time: Thermometer ID #1	All Results are	stated reas	mount paid by the client for the days after completion of the a		2128/2 1215	428122 1214	2/28/27 1213	12	-		8021 12182/21	128221207	12/28/27 1206	DATE TIME	SAMPI ING	0-2020	0-2828	•			ich	JSA Inc.		TO	
13	em		the applicable	XXXX	XXX	XXX	XXX	K K X	XX	XX	XXX	XXX	XXX	TPH 801 BIEX 802	1	-	MB	1							
Standard A	alied. Please provide Email address:								0	X				Chlorides a	4	, a	6	_		/	/	/	-	AN	PS
Bacteria (only) Cool Intact	nail address:	DF000 #													/	/	WEE	/	_				_	ANALYSIS REO	Pg. 3 or 4
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ∏Yes ∏Yes												2		12/82/2			_						_	REQUEST	_

Sampler - UPS - Bus - Ot	Kelingushed/By:	. h.h.	Relinquished By:	ervice. In no event shall Cardinal be liable for incidental or milates or successors arising out of or related to the perform	PLEASE NOTE: Liability and Damages, Ca malyses, All claims including those for negl		38	37	36	25	14	UN UN	ee	3/	d POMERT	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #: 03B	Phone #: 210-219-8858	City: Midland	Address: 601 N I	Project Manager	Company Name: Ensolum, LLC	
- Bus - Other:	t the	Mall	11	ardinal be liable for incidental or c ing out of or related to the perform	igence and any		FS-38	FS- 37	FS-36	FS- 35	FS- 34	FS- 33	FS- 32	F5-31		Sample I.D.		Should dilly	: Eddy County	North Ca	31417062	9-8858		Address: 601 N Marienfeld Street, Suite 400	Project Manager: Beaux Jennings	Ensolum, LLC	101 East Marlanc (575) 393-2326
Corrected Temp. "C	Time: 524	Time: 2/12/21	Date: /ac./	consequental damages, including v lance of services hereunder by Cau	cause whatsoever		0-25	0-25	82.00	025	075	0-:25	520	075		Depth (feet)		S.		ride wor	Project Owner:	Fax #:	State: TX	Suite 400			101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
001	Received	2 Vr	Received By:	including without limitation, but nder by Cardinal, regardless of	edy for any claim arising wheth shall be deemed waived unless		- 1	C I	C	Ú –	CI	C -	CI	CI	# CO GRO	AB OR (C)OM NTAINERS UNDWATER					er		Zip: 79701				8240 2476
Cool Intact	odeio	1th	JY:	siness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries whether such claim is based upon any of the above stated reasons or otherwise.	er ba		X	X	X	×	X	X	X	x	SOIL OIL SLUD		MATRIX	-	-	(0)							
(Invitials)	2	Ø	'	of use, or loss of profits ased upon any of the ab	sed in contract or tort, shall be limited to the te in writing and received by Cardinal within :		X		X	X2	X	8	X	X		BASE: COOL	PRESERV.	Fax #:	Phone #: 575-	State: 2	City:	Address:	Attn: Wade Dittrich	Company: Oxy USA Inc.	P.O. #:	BILL	
		All F		s incurred by client, its bove stated reasons o	he amount paid by the client for the in 30 days after completion of the a		21 24/82/20	12/28/22 12	21 24/8212	2/28/27 12	2/28/27/2	12	17/28/27 12	21 41212	DATE T		SAMPLING		575-390-2828	Zip:			ttrich	y USA Inc.		LTO	
Turnaround Time: Thermometer ID #11	REMARKS:	ä	Verbal Result:	subsidiaries, rothenwise.	client for the ation of the applicable		33 X 1	X 25	31 X	1 × 82	X 12	X 42	X 22	X 02	TIME D	TPH	801	15	N	1							
Standard Rush		ailed. Please provide Email address:	Yes INO				X	N N	XX		XX	XX	XX	XX	B	TEX E	3021	1 1	3	_	_		_				
		ovide Email ad	Add'l Phone #:															_		E	2	/	/	_		ANALYSIS	B
Bacteria (only) San Cool Intact Ot		dress:	e#:													8	21 8212			FA					-	IS REQUEST	H of H
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C										/	/					100	-01	_	_	_					_	IST	4

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**Released to Imaging: 1/22/2024 11:09:13 AM** 



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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 - 5 (H234233-01)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

## Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	% 49.1-14	8						

## Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d 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	Analyze	d 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	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Laboratorie	CARDINA
	Laboratorie

# Received by OCD: 8/14/2023 2:26:23 PM

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# APPENDIX F

C-141

**Released to Imaging: 1/22/2024 11:09:13 AM** 

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

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 <u>-103.786239</u> (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
Е	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)

Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
Produced Water	Volume Released (bbls):165	Volume Recovered (bbls): 160
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Dalassa 1 ins	h ningle internal compains	

Cause of Release: 1-inch nipple internal corrosion.

m C-141	State of New Mexico	Incident ID	nAPP2227954604
2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Vas this a major elease as defined by 9.15.29.7(A) NMAC? ☑ Yes □ No	If YES, for what reason(s) does the responsible p Release is greater than 25 barrels.	party consider this a major release	?
	notice given to the OCD? By whom? To whom? Y f Oxy via email to <u>OCD.enviro@emnrd.nm.gov</u> and		
	Initial Respon	ise	
The responsible	party must undertake the following actions immediately unless	they could create a safety hazard that wo	uld result in injury
The impacted area h	ease has been stopped. as been secured to protect human health and the en-		ant devices
<ul> <li>The impacted area h</li> <li>Released materials h</li> <li>All free liquids and p</li> </ul>		bsorbent pads, or other containme	ent devices.
The impacted area h Released materials h All free liquids and n f all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme hereby certify that the info egulations all operators are bublic health or the environ ailed to adequately investi addition, OCD acceptance	as been secured to protect human health and the en- ave been contained via the use of berms or dikes, a recoverable materials have been removed and mana	tion immediately after discovery have been successfully complete ttach all information needed for complete s and perform corrective actions for r s not relieve the operator of liability pundwater, surface water, human hea	of a release. If remediation d or if the release occurred closure evaluation. Insuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In
The impacted area h Released materials h All free liquids and n ff all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme hereby certify that the info regulations all operators are public health or the environ failed to adequately investi	as been secured to protect human health and the envave been contained via the use of berms or dikes, a recoverable materials have been removed and mana environment of been undertaken, explain why: MAC the responsible party may commence remedia a narrative of actions to date. If remedial efforts nt area (see 19.15.29.11(A)(5)(a) NMAC), please a prmation given above is true and complete to the best of the required to report and/or file certain release notification ment. The acceptance of a C-141 report by the OCD does gate and remediate contamination that pose a threat to group of a C-141 report does not relieve the operator of responses trich.	tion immediately after discovery have been successfully complete ttach all information needed for constructions for re- s and perform corrective actions for re- s not relieve the operator of liability oundwater, surface water, human hea ibility for compliance with any other	of a release. If remediation d or if the release occurred closure evaluation. Insuant to OCD rules and eleases which may endanger should their operations have lth or the environment. In
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**OCD Only** Received by:

\_\_\_\_\_

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

Form C-141

State of New Mexico Oil Conservation Division

Incident ID	nAPP2227954604
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	Ves 🕅 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 <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps

Received

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 of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation of the release, the 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 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 Joppage 4	State of New Mexico Oil Conservation Division	Incident ID District RP Facility ID Application ID	nAPP2227954604
regulations all o public health or failed to adequa	that the information given above is true and complete to the b operators are required to report and/or file certain release notifies the environment. The acceptance of a C-141 report by the O tely investigate and remediate contamination that pose a threa acceptance of a C-141 report does not relieve the operator of r ms.	cations and perform corrective actions for rele CD does not relieve the operator of liability sh t to groundwater, surface water, human health	eases which may endanger ould their operations have or the environment. In
Printed Name:	Wade Dittrich	Title: <u>Environmental Specialist</u> Date: <u>2-23-23</u>	
	littrich@oxy.com	Telephone: <u>575-390-2828</u>	
OCD Only Received by: _		Date:	

Form C-141

State of New Mexico Oil Conservation Division

Incident ID	nAPP2227954604
District RP	
Facility ID	
Application ID	

# Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Signature:

email: wade\_dittrich@oxy.com

Title: Environmental Specialist

Date: 2-23-23

Telephone: <u>575-390-2828</u>

OCD Only

Received by: \_

Received by OCD: 87

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:

Released to Imaging: 1/22/2024 11:09:13 A

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

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	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

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