



# ENSOLUM

**October 17, 2022**

**Oxy USA Inc.**  
 PO Box 4294  
 Houston, TX 77210  
**Attn: Mr. Wade Dittrich**

**Re:** Remediation Work Plan  
**Pure Gold MDP1 29 17 Fed Com 171H**  
**Off Hwy 128**  
**32.2721838° N, 103.8021430° W**  
**Eddy County, New Mexico**  
**Incident ID: nAPP2222430401**  
 Ensolum Project No. 03B1417060

Dear Mr. Dittrich:

Ensolum, LLC. (Ensolum) has prepared this Remediation Work Plan to perform environmental consulting services in the vicinity of the Pure Gold MDP1 29 17 Fed Com 171H, referred to hereinafter as the "Site." The Site is located off Hwy 128 and an unnamed caliche road, approximately 17 miles east of Loving in Eddy County, New Mexico.

## I. SITE DESCRIPTION & BACKGROUND

<b>Operator:</b>	Oxy USA Inc. (Oxy)
<b>Site Name:</b>	Pure Gold MDP1 29 17 Fed Com 171H
<b>Location:</b>	32.2721838° N, 103.8021430° W Eddy County, New Mexico
<b>Property:</b>	Bureau of Land Management (BLM)
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Site is located in Unit K, Section 29, Township 23 South, Range 31 East, in Eddy County, New Mexico (32.2721838° N, 103.8021430° W) and is associated with oil and gas exploration and production operations on BLM Federal Land.

On May 25, 2022, a release of crude oil and produced water was reported from an air eliminator cracked and the divert back pressure valve diaphragm failed. Approximately six barrels (bbls) of crude oil and approximately seven bbls of produced water were released. Approximately five bbls of crude oil and five bbls of produced water were recovered. Oxy reported the release to the NMOCD and BLM through Form C-141 notification on August 15, 2022. The release was assigned Incident Number nAPP2222430401.

On August 25, 2022, Ensolum arrived on-Site and collected a total of 11 composite pothole soil samples from three locations (CS-1 and CS-3) at one-foot intervals down to a depth of three to four feet below ground surface (bgs) within the release area. Additionally, four delineation composite soil samples (North, East, South, and West) were collected from a depth of 0 – 0.5 feet bgs to determine the horizontal and vertical extent of the release.

Mr. Wade Dittrich  
Remediation Work Plan  
Pure Gold MDP1 29 17 Fed Com 171H

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Based on the analytical results from the soil samples collected from the Site, the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* Table I: Closure Criteria for Soils Impacted by a Release ( $\leq 50$  feet) values will be utilized for the uppermost four feet. According to the Office of the State Engineer (OSE) Water Rights Reporting System (WRSS) database, there is a former plugged and abandon monitoring well (C 04553 POD1) located approximately 0.31-miles northeast of the Site. Based on the results of the former monitoring well, depth to water in the area is greater than 100-foot bgs. The soil located below four feet at the Site will utilize NMAC 19.15.29 *Releases* Table I: Closure Criteria for Soils Impacted by a Release ( $> 100$  feet) values for Site closure.

The OSE WRSS documentation are included as **Supporting Documentation** in **Attachment B**. The composite pothole soil samples and delineation composite soil sample results are included as **Table 1** in **Attachment D**.

The Site Map indicating the overall area of the release, the composite pothole soil sample's locations, and the delineation composite soil sample's locations are included as **Figure 3** in **Attachment A**.

## II. 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. Closure criteria supporting documentation is included in **Attachment B**.

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

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Pure Gold MDP1 29 17 Fed Com 171H

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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 (0' – 4' bgs)			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Closure Criteria for Soils Impacted by a Release (> 4' bgs)			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
> 100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### III. SCOPE OF SERVICES

#### A. Health and Safety Plan

Ensolum will develop a site-specific Health and Safety Plan (HSP) for the performance of the scope of services described in this Remediation Work Plan. For the purposes of this HSP, it is assumed that the constituents of concern (COCs) include petroleum hydrocarbons. For the purposes of this HSP, it is assumed that the scope of services can be conducted under modified Level D personal protective equipment (PPE), which will include fire-retardant (FR) clothing, hard hat, steel-toed boots, protective eyewear and gloves. Should the need arise to upgrade PPE (e.g. respiratory protection), the client will be notified, and the HSP will be modified accordingly. Although it is not anticipated at this time, it should be noted that a PPE upgrade will constitute a change in scope of work, requiring a change order.

#### B. Excavation Activities

The Site will be excavated by a third-party contractor to remove impacted soils in the release area based on laboratory analytical data, olfactory and/or visual evidence of impairment. Based on current analytical data taken at the Site, composite sample CS-1 through CS-3 will be excavated down to a minimum of four feet bgs. In addition, delineation points NORTH, EAST and SOUTH will be excavated and subsequently sampled to ensure delineation during excavation activities.

At this time, an estimated 623 cubic yards (cy) will be excavated from the release area. The excavated impacted soils will be placed on plastic on-Site and will be taken off-Site for proper disposal upon receipt of laboratory analytical results. The remediation will be completed within 90 days of approval from the NMOCD.

#### C. Confirmation Composite Soil Sampling Program

Once excavation activities are complete, Ensolum will collect additional confirmation composite soil samples every 400 square-feet from the bottomhole and sidewalls of the release area based on the following criteria:

- Highest photoionization detector (PID) reading;
- Highest electrical conductivity reading; or
- Change in lithology.

#### E. Laboratory Analytical Program

The soil samples collected from the proposed confirmation composite samples will be analyzed for total petroleum hydrocarbons (TPH) gasoline range organics (GRO)/ diesel range organics (DRO)/ motor oil/lube oil range organics (MRO) utilizing Environmental Protection Agency (EPA) SW-846 Method 8015M, benzene, toluene, ethylbenzene and xylene (BTEX) utilizing EPA SW-846 Method 8021B, and chloride utilizing EPA Method SM4500 Cl B under the NMOCD Closure Criteria for Soils Impacted by a Release.

### IV. REPORTING

Subsequent to the completion of Site activities, a Closure Report will be prepared by Ensolum to document completed site investigation and remediation activities as well as any corrective action at the Site, if needed.

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Remediation Work Plan  
Pure Gold MDP1 29 17 Fed Com 171H

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## V. DELIVERABLES

The results, findings, conclusions, and recommendations, which will be provided in the Closure Report, will be based solely on the conditions which are observed during the site investigation and the information reviewed by Ensolum. No warranties or representations, expressed or implied, will be made as to the condition of the site beyond that observed by Ensolum during its site investigation.

We appreciate the opportunity to provide this Remediation Work Plan and look forward to working with you on this project. If you should have any questions or comments regarding this Remediation Work Plan, please contact either of the undersigned.

Sincerely,  
**Ensolum, LLC**

  
**Heather Holthaus**  
Senior Project Manager  
[hholthaus@ensolum.com](mailto:hholthaus@ensolum.com)

  
**Beaux Jennings**  
Senior Project Manager  
[bjennings@ensolum.com](mailto:bjennings@ensolum.com)

### Attachments:

**Attachment A – Figures**

**Attachment B – Supporting Documentation**

**Attachment C – Photographic Documentation**

**Attachment D – Table 1 – Soil Sample Analytical Results**

**Attachment E – Laboratory Report & Chain-of-Custody Documentation**

**Attachment F – C-141**

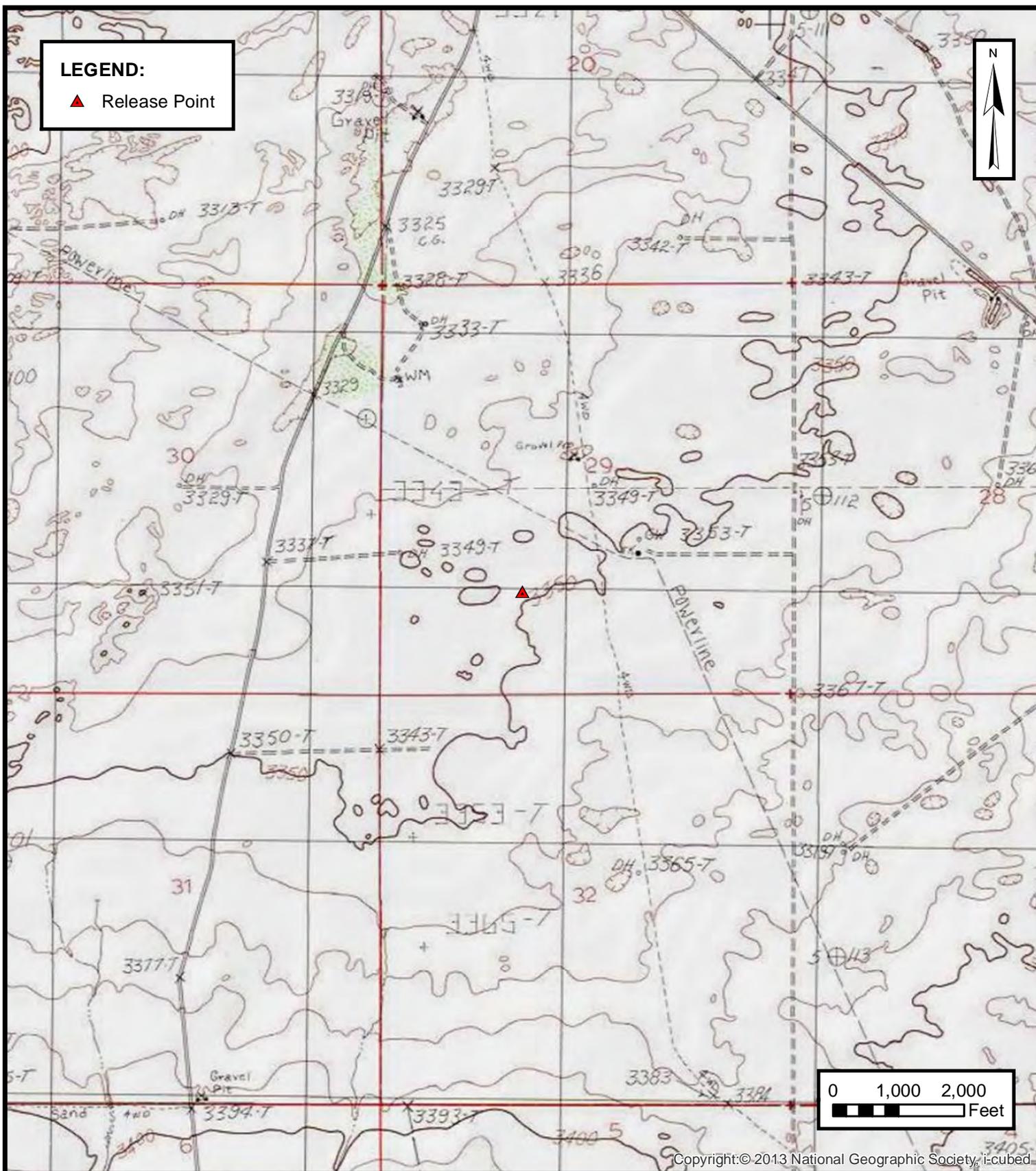


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## ATTACHMENT A

Figures

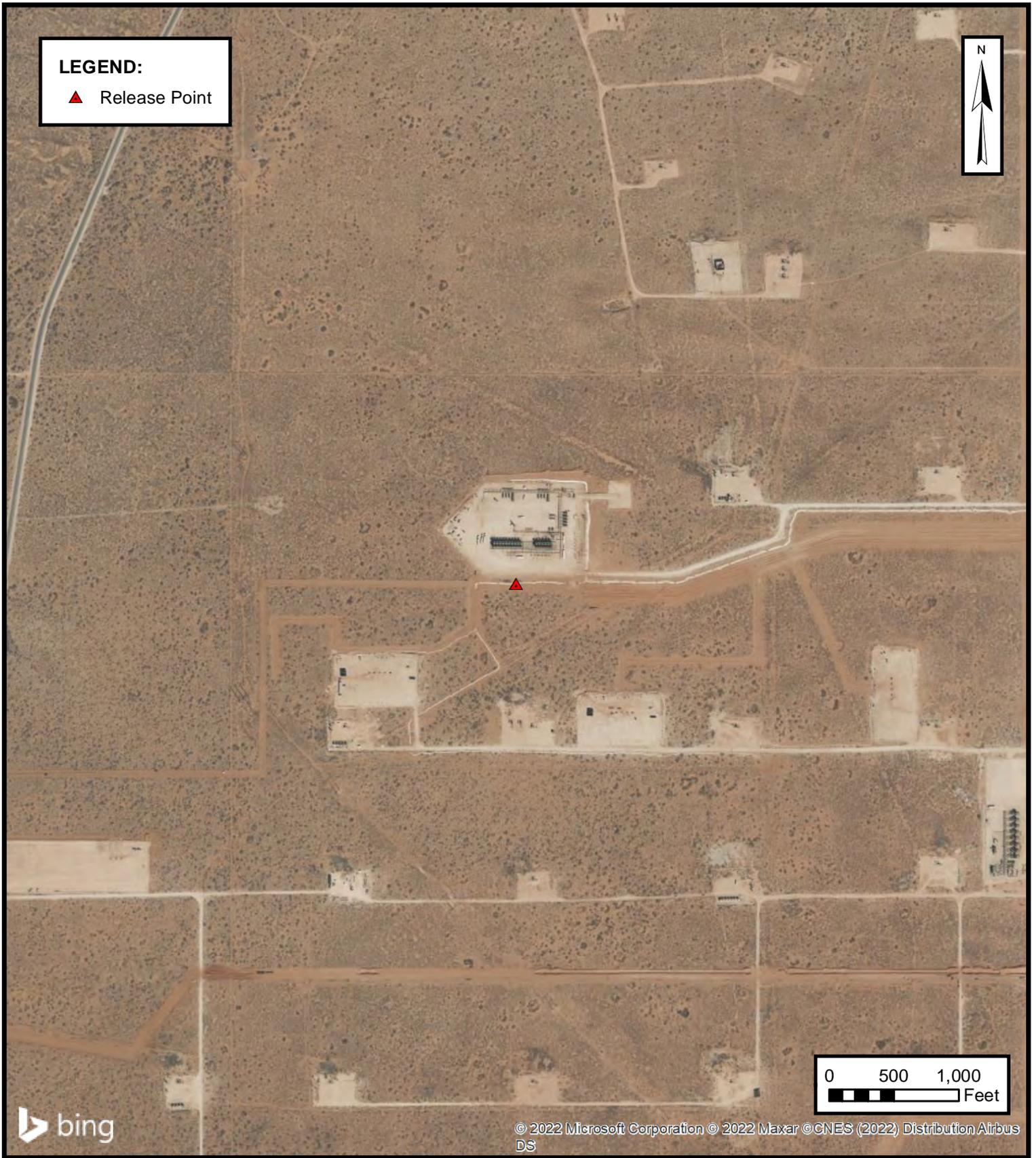
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**TOPOGRAPHIC MAP**  
OXY USA INC.  
PURE GOLD MDP1 2917 FED. COM. 171H  
Eddy County, New Mexico  
32.2721838° N, 103.8021430° W

PROJECT NUMBER: 03B1417060

**FIGURE**  
**1**



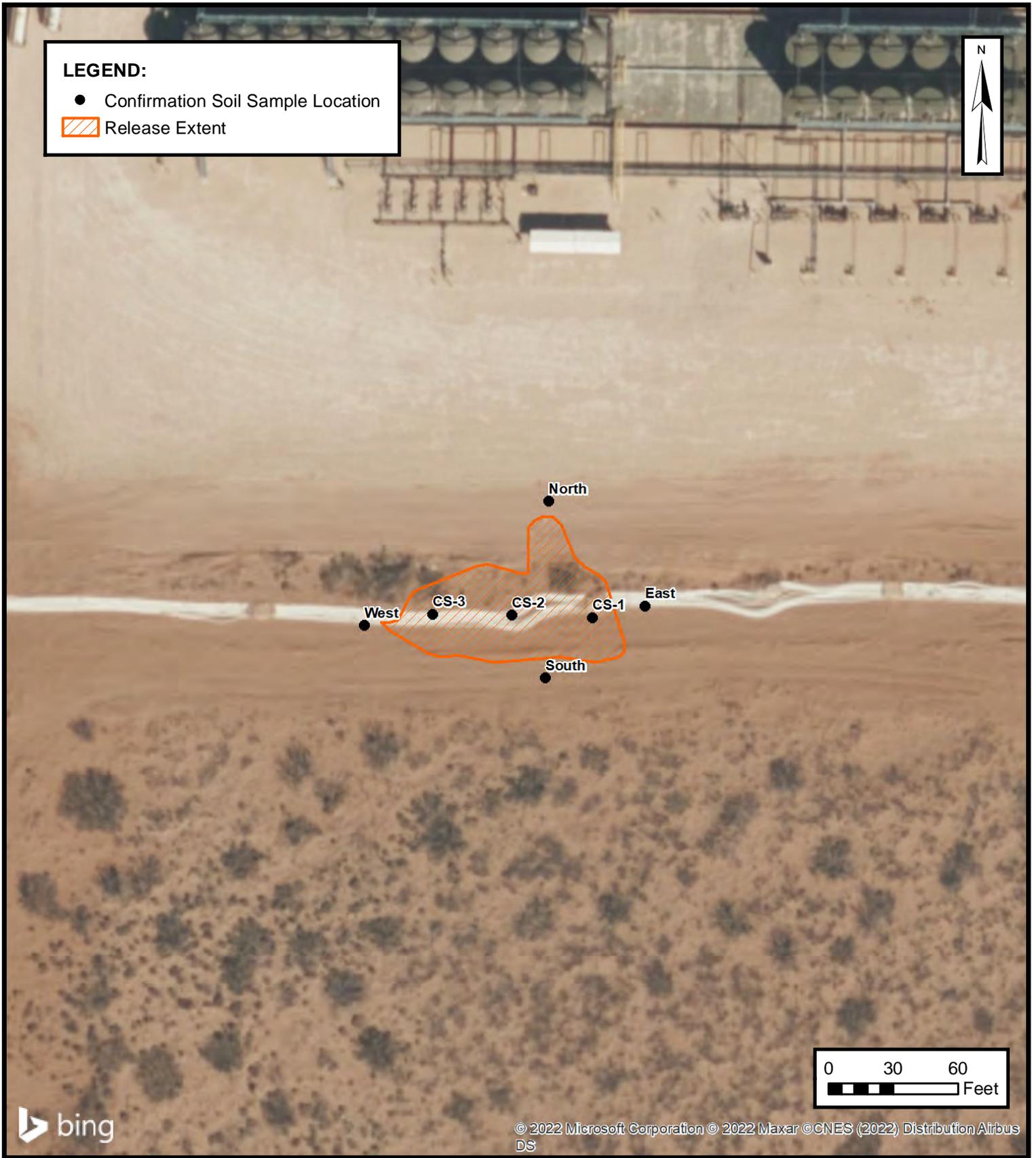
**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

**SITE VICINITY MAP**

OXY USA INC.  
PURE GOLD MDP1 2917 FED. COM. 171H  
Eddy County, New Mexico  
32.2721838° N, 103.8021430° W

PROJECT NUMBER: 03B1417060

**FIGURE**  
**2**



**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

**SITE MAP**

OXY USA INC.  
PURE GOLD MDP1 2917 FED. COM. 171H  
Eddy County, New Mexico  
32.2721838° N, 103.8021430° W

PROJECT NUMBER: 03B1417060

**FIGURE**

**3**

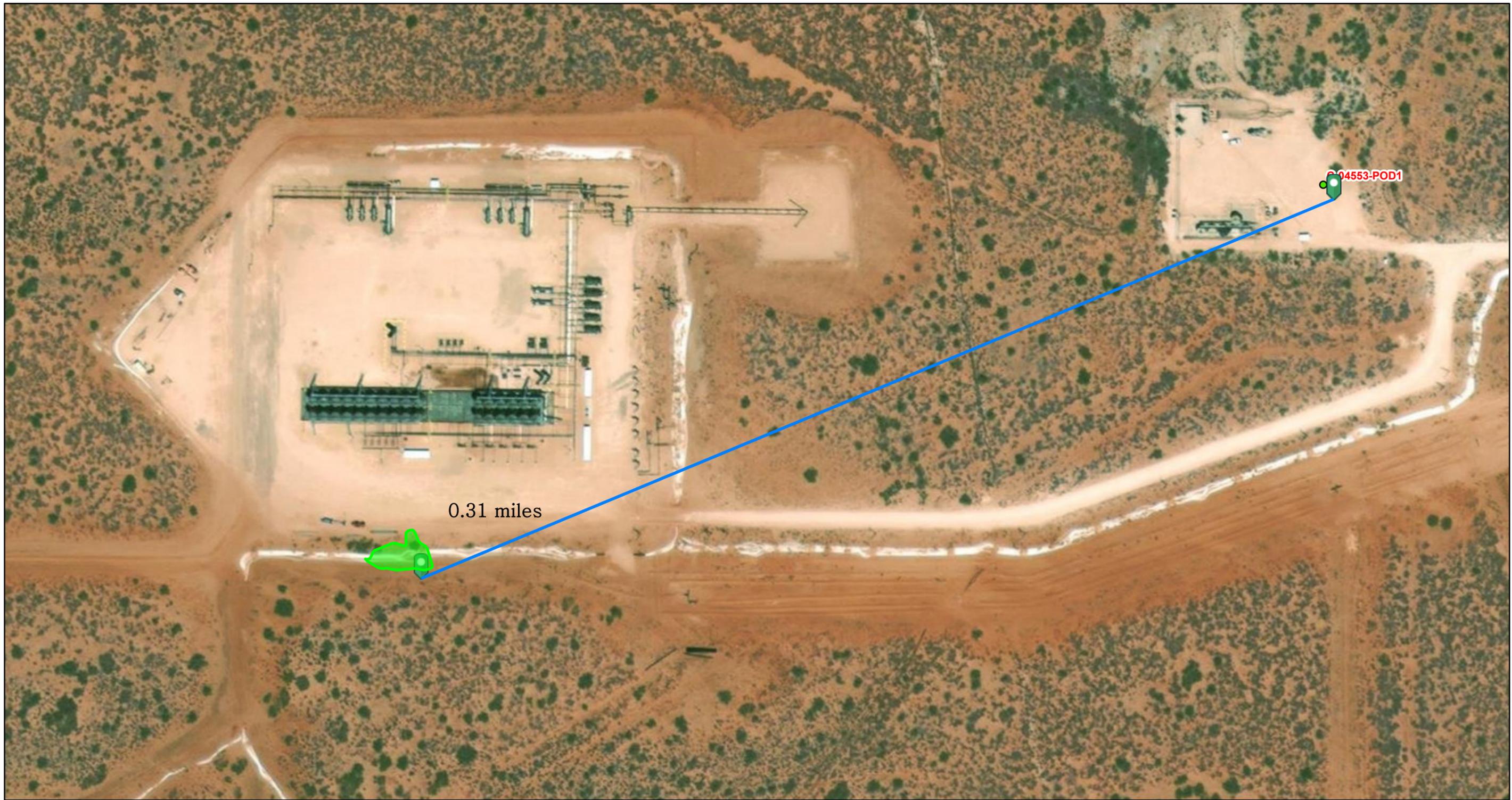


## ATTACHMENT B

### Supporting Documentation

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# OSE POD Locations Map



9/26/2022, 4:58:16 PM

- Override 1
- AREA\_FF00FF00
- Pending
- OSE District Boundary
- SiteBoundaries



Esri, HERE, GeoTechnologies, Inc., Maxar, Microsoft, Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management



# New Mexico Office of the State Engineer

## Transaction Summary

**EXPL Permit To Explore**

**Transaction Number:** 699469      **Transaction Desc:** C 04553 POD1      **File Date:** 06/25/2021

**Primary Status:** PMT Permit  
**Secondary Status:** APR Approved  
**Person Assigned:** \*\*\*\*\*  
     **Agent:** TRINITY OILFIELD SERVICES  
     **Contact:** JOHN P FARRELL, PG  
     **User:** OXY USA INC  
     **Contact:** WADE DITTRICH, ENVIRO COORD

**Events**

Date	Type	Description	Comment	Processed By
06/25/2021	APP	Application Received	*	*****
06/25/2021	TEC	Technical Report	*PLG PLN OPS C-	*****
07/08/2021	FTN	Finalize non-published Trans.		*****
07/15/2021	QAT	Quality Assurance Completed	DATA	*****
07/20/2021	QAT	Quality Assurance Completed	IMAGE	*****

**Water Right Information**

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
C 04553	0	0		MON MONITORING WELL
<b>**Point of Diversion</b>				
C 04553 POD1		613256	3571369	

**Remarks**

"THIS IS A SOIL BORING TO DEMONSTRATE THAT THE DEPTH TO GROUNDWATER DOES NOT EXIST BETWEEN THE GROUND SURFACE AND THE PLANNED TOTAL DEPTH OF THE BOREOLE. PLANNED DEPTH IS BETWEEN 101 AND 105 FEET BELOW GROUND SURFACE. A ONE CALL WILL BE REQUESTED AT LEAST 2 BUSINESS DAYS PRIOR TODRILING HE BORING TO ENSURE THAT SUBSURFACE INFRASTRUCTURE WILL NOT BE ENCOUNTERED WHEN DRILING THIS BOREHOLE. THIS EXPORATROY BOIRING WEILL BE DRILED ON THE WELL PAD FOR THE OXY MOBIL FEDERAL 001 (API #30-015-20751) WELL. THERE WILL BE NO NEW GROUND DISTURBANCE ON FEDERAL LANDS AS A RESULT OF DRILLING THIS BORHOLE. PER STATE OF NEW MEXICO OIL CONSERVATIONS DIVISION REQUIREMENTS, THE BOREHOLE MUST REMAIN OPEN FOR 72 HOURS TO DEMONSTRATE THAT THE BORING IS DRY. MEASUREMENT WILL BE DONE BY A PROVESSIONAL GEOLOGIST AND WITNESSED BY THE DRILER PRIO TO PLUGGING E HOLE PER THE SPECIFICATIONS OF THE PLUGGING

PLAN OF THE OSE. TO ADDRESS ITEM 4 BELOW, THIS IS AN EXPLORATORY BORING TO BE DRILLED WITH TE SOLE PURPOSE OF PROVING THAT THE DEPTH TO GROUNDWATER EXCEEDS 101 FEET BELOW GROUND SURFACE AT THE LOCATION. THERE IS NO OTHER PURPOSE FOR THE BORING"

**Conditions**

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- Q The State Engineer retains jurisdiction over this permit.
- R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

**Action of the State Engineer**

**\*\* See Image For Any Additional Conditions of Approval \*\***

**Approval Code:** A - Approved  
**Action Date:** 07/02/2021  
**Log Due Date:** 07/02/2022  
**State Engineer:** John R. D Antonio,

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

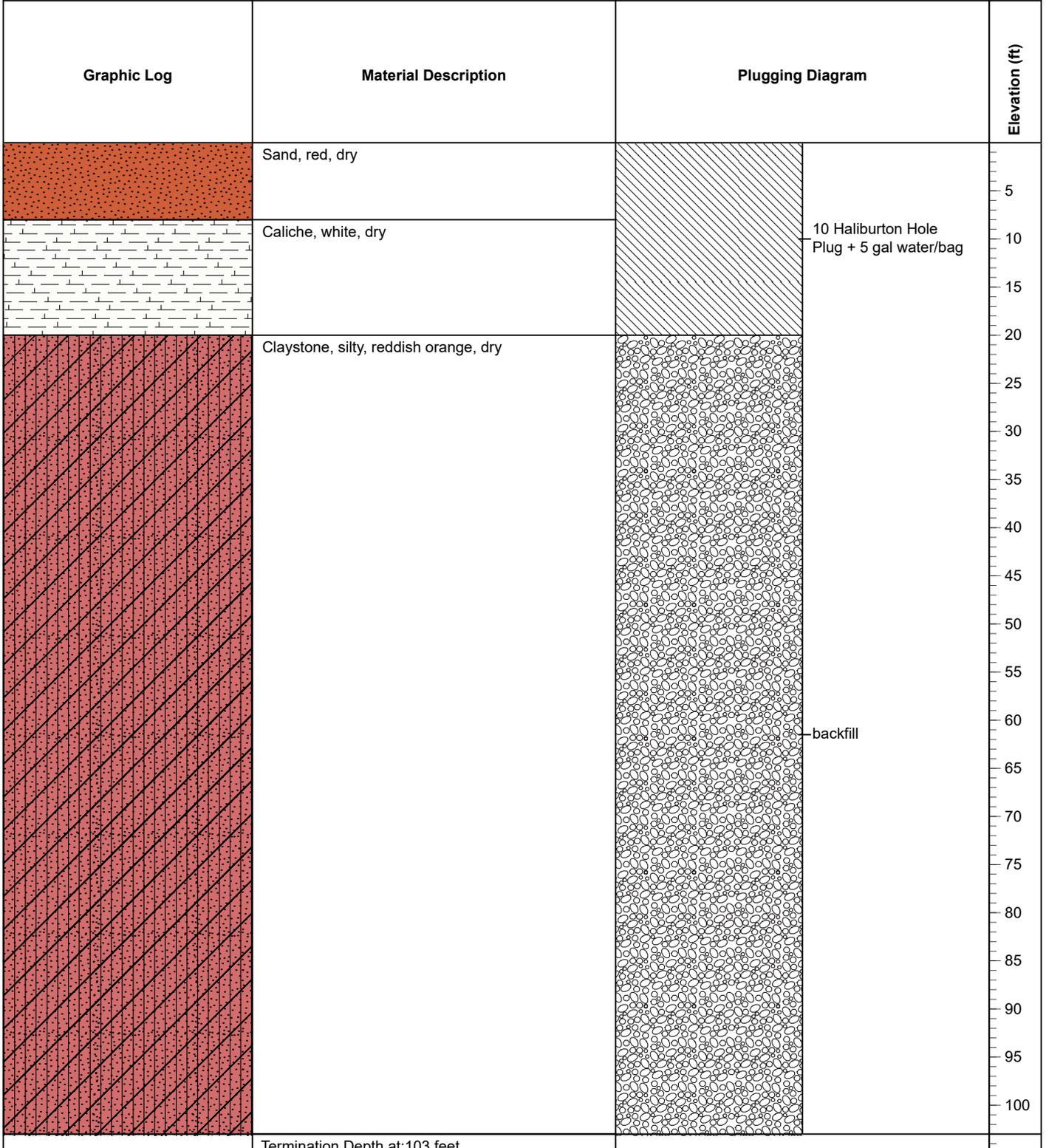


# BOREHOLE LOG C-4553 POD 1

<b>PROJECT NUMBER</b> C-4553 POD 1	<b>DRILLING DATE</b> 7/30/2021	<b>COORDINATES</b> 32.27335 N, -103.78742
<b>PROJECT NAME</b> Soil Boring - DTG	<b>TOTAL DEPTH</b> 103 feet	<b>COORD SYS</b> WGS 84
<b>CLIENT</b> OXY USA, Inc	<b>DIAMETER</b> 8-3/4"	<b>COMPLETION</b> Plugged and Abandoned
<b>ADDRESS</b> PO Box 4294, Houston TX 77210	<b>CASING</b> uPVC	<b>SURFACE ELEVATION</b> 3357 ft MSL
<b>LICENCE NO.</b> WD-1035 Edd Coffey	<b>SCREEN</b> uPVC Manually Slotted	

**COMMENTS** South of large mesquite bush - west side of pad

**LOGGED BY** John Farrell P.G.  
**CHECKED BY** Dan Dunkelburg



Termination Depth at: 103 feet

**Disclaimer** This bore log is intended for environmental not geotechnical purposes.



# Wetlands Mapper



September 26, 2022

### Wetlands

- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake     |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other    |
|   |                                |  | Freshwater Pond                   |  | Riverine |

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

# National Flood Hazard Layer FIRMette



103°48'26"W 32°16'35"N



## Legend

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

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

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

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

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

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

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



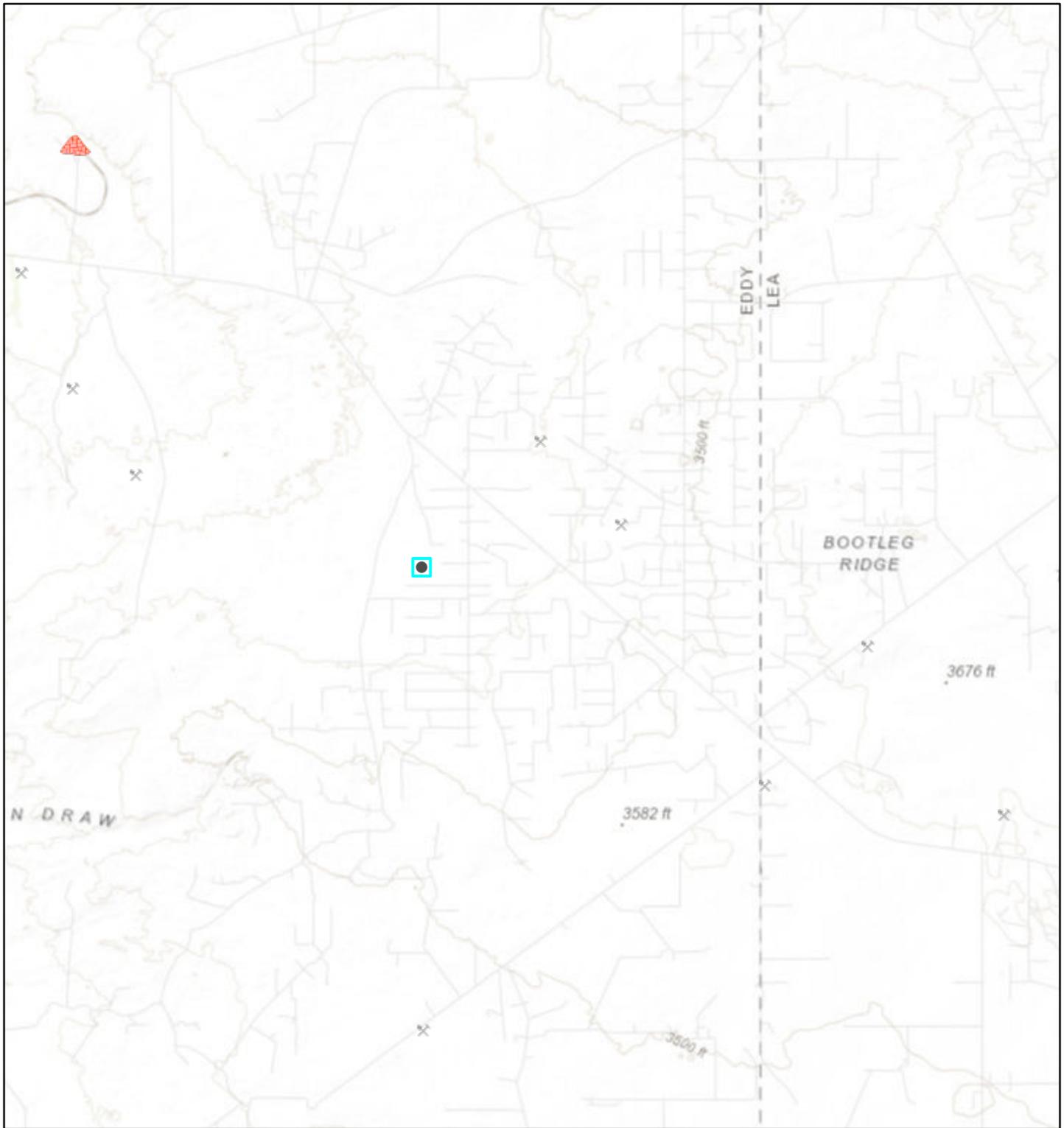
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/11/2022 at 5:14 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

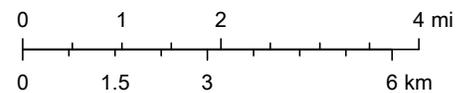
# Active Mines in New Mexico



10/11/2022, 4:11:31 PM

1:144,448

## Registered Mines



- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ▲ Potash

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS

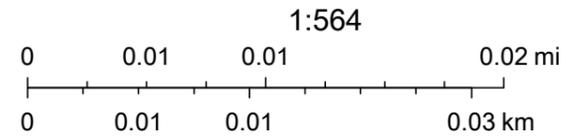
# OCD Well Locations



10/11/2022, 4:19:00 PM

Karst Occurrence Potential

- Low
- PLSS Second Division
- PLSS First Division



BLM, OCD, New Mexico Tech, Maxar, Microsoft, Esri, HERE, Garmin, GeoTechnologies, Inc., Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., BLM



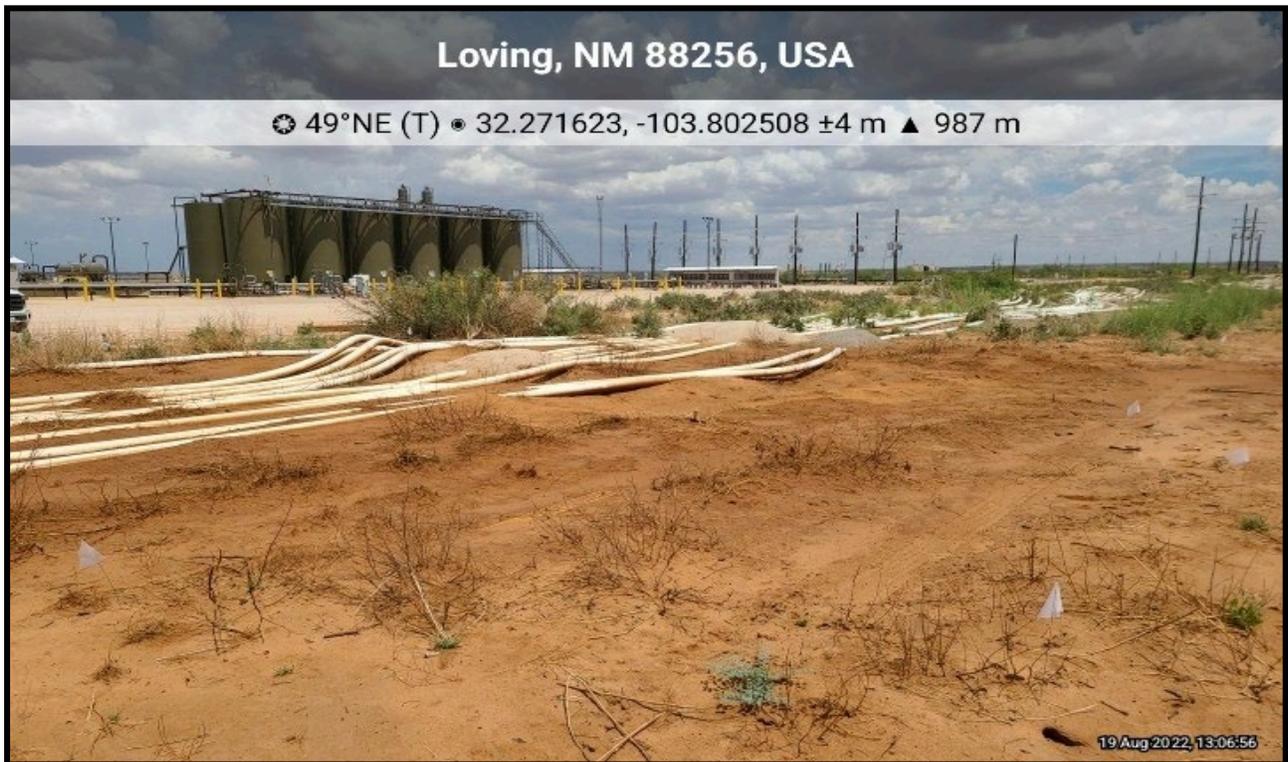
## ATTACHMENT C

### Photographic Documentation

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View of release area during initial soil sampling activities, facing northwest.



View of release area during initial soil sampling activities, facing northeast.



## ATTACHMENT D

### Table 1 - Soil Sample Analytical Results

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Oxy USA Inc. - Pure Gold MDP1 29 17 Fed Com 171H  
 Eddy County, New Mexico

Ensolum Project No. 03B1417060

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
<b>Pothole Sample Analytical Results</b>												
CS-1	8/25/2022	0 - 1	<0.050	<b>0.094</b>	<b>1.57</b>	<b>1.64</b>	<b>3.30</b>	<b>197</b>	<b>7,180</b>	<b>1,160</b>	<b>8,537</b>	<b>880</b>
		1 - 2	<0.100	<b>0.499</b>	<0.100	<b>12.0</b>	<b>12.5</b>	<b>795</b>	<b>4,760</b>	<b>738</b>	<b>6,293</b>	<b>160</b>
		2 - 3	<0.050	<b>0.299</b>	<0.050	<b>7.59</b>	<b>7.89</b>	<b>521</b>	<b>3,850</b>	<b>589</b>	<b>4,960</b>	<b>240</b>
		3 - 4	<b>0.081</b>	<b>1.85</b>	<0.050	<b>25.0</b>	<b>27.0</b>	<b>1,450</b>	<b>6,770</b>	<b>959</b>	<b>9,179</b>	<b>1,500</b>
CS-2	8/25/2022	0 - 1	<0.050	<b>0.131</b>	<0.050	<b>3.43</b>	<b>3.56</b>	<b>212</b>	<b>4,970</b>	<b>940</b>	<b>6,122</b>	<b>64.0</b>
		1 - 2	<0.050	<b>1.17</b>	<0.050	<b>19.3</b>	<b>20.4</b>	<b>1,020</b>	<b>6,070</b>	<b>956</b>	<b>8,046</b>	<b>64.0</b>
		2 - 3	<b>0.068</b>	<b>0.919</b>	<0.050	<b>14.9</b>	<b>15.9</b>	<b>586</b>	<b>2,840</b>	<b>428</b>	<b>3,854</b>	<b>64.0</b>
		3 - 4	<0.050	<0.050	<0.050	<b>0.229</b>	<0.300	<10.0	<b>364</b>	<b>79.0</b>	<b>443</b>	<b>256</b>
CS-3	8/25/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>3,440</b>	<b>726</b>	<b>4,166</b>	<b>3,320</b>
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>193</b>	<b>77.0</b>	<b>270</b>	<b>976</b>
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>116</b>	<b>30.8</b>	<b>147</b>	<b>704</b>
<b>Delineation Sample Analytical Results</b>												
NORTH	8/25/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>495</b>	<b>165</b>	<b>660</b>	<b>80.0</b>
EAST	8/25/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>522</b>	<b>250</b>	<b>772</b>	<b>96.0</b>
SOUTH	8/25/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>186</b>	<b>84.2</b>	<b>270</b>	<b>48.0</b>
WEST	8/25/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>12.3</b>	<b>11.2</b>	<b>23.5</b>	<b>48.0</b>

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

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



## ATTACHMENT E

### Laboratory Report & Chain-of-Custody Documentation

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

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August 30, 2022

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

RE: PURE GOLD MDP1 2917 FED

Enclosed are the results of analyses for samples received by the laboratory on 08/25/22 15:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 1 0-1' (H223922-01)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2022	ND	2.16	108	2.00	1.41		
<b>Toluene*</b>	<b>0.094</b>	0.050	08/27/2022	ND	2.09	104	2.00	1.83	GC-NC1	
<b>Ethylbenzene*</b>	<b>1.57</b>	0.050	08/27/2022	ND	2.05	102	2.00	1.59		
<b>Total Xylenes*</b>	<b>1.64</b>	0.150	08/27/2022	ND	6.32	105	6.00	1.11	GC-NC1	
<b>Total BTEX</b>	<b>3.30</b>	0.300	08/27/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 180 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>880</b>	16.0	08/26/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>197</b>	10.0	08/26/2022	ND	249	124	200	3.16		
<b>DRO &gt;C10-C28*</b>	<b>7180</b>	10.0	08/26/2022	ND	262	131	200	5.80		
<b>EXT DRO &gt;C28-C36</b>	<b>1160</b>	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 133 % 45.3-161

Surrogate: 1-Chlorooctadecane 287 % 46.3-178

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 1 1-2' (H223922-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	08/29/2022	ND	2.16	108	2.00	1.41		
<b>Toluene*</b>	<b>0.499</b>	0.100	08/29/2022	ND	2.09	104	2.00	1.83	GC-NC1	
Ethylbenzene*	<0.100	0.100	08/29/2022	ND	2.05	102	2.00	1.59		
<b>Total Xylenes*</b>	<b>12.0</b>	0.300	08/29/2022	ND	6.32	105	6.00	1.11	GC-NC1	
<b>Total BTEX</b>	<b>12.5</b>	0.600	08/29/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 319 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	08/26/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>795</b>	10.0	08/26/2022	ND	249	124	200	3.16		
<b>DRO &gt;C10-C28*</b>	<b>4760</b>	10.0	08/26/2022	ND	262	131	200	5.80		
<b>EXT DRO &gt;C28-C36</b>	<b>738</b>	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 195 % 45.3-161

Surrogate: 1-Chlorooctadecane 207 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 1 2-3' (H223922-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2022	ND	2.10	105	2.00	4.07		
<b>Toluene*</b>	<b>0.299</b>	0.050	08/26/2022	ND	2.08	104	2.00	4.49	GC-NC1	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.00	100	2.00	4.31		
<b>Total Xylenes*</b>	<b>7.59</b>	0.150	08/26/2022	ND	6.27	105	6.00	5.19	GC-NC1	
<b>Total BTEX</b>	<b>7.89</b>	0.300	08/26/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 165 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>240</b>	16.0	08/26/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>521</b>	10.0	08/26/2022	ND	249	124	200	3.16		
<b>DRO &gt;C10-C28*</b>	<b>3850</b>	10.0	08/26/2022	ND	262	131	200	5.80		
<b>EXT DRO &gt;C28-C36</b>	<b>589</b>	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 160 % 45.3-161

Surrogate: 1-Chlorooctadecane 182 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 1 3-4' (H223922-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.081</b>	0.050	08/26/2022	ND	2.10	105	2.00	4.07		
<b>Toluene*</b>	<b>1.85</b>	0.050	08/26/2022	ND	2.08	104	2.00	4.49	GC-NC1	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.00	100	2.00	4.31		
<b>Total Xylenes*</b>	<b>25.0</b>	0.150	08/26/2022	ND	6.27	105	6.00	5.19	GC-NC1	
<b>Total BTEX</b>	<b>27.0</b>	0.300	08/26/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 572 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1500</b>	16.0	08/26/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>1450</b>	10.0	08/26/2022	ND	249	124	200	3.16		
<b>DRO &gt;C10-C28*</b>	<b>6770</b>	10.0	08/26/2022	ND	262	131	200	5.80		
<b>EXT DRO &gt;C28-C36</b>	<b>959</b>	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 296 % 45.3-161

Surrogate: 1-Chlorooctadecane 499 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 2 0-1' (H223922-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2022	ND	2.10	105	2.00	4.07		
<b>Toluene*</b>	<b>0.131</b>	0.050	08/26/2022	ND	2.08	104	2.00	4.49	GC-NC1	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.00	100	2.00	4.31		
<b>Total Xylenes*</b>	<b>3.43</b>	0.150	08/26/2022	ND	6.27	105	6.00	5.19	GC-NC1	
<b>Total BTEX</b>	<b>3.56</b>	0.300	08/26/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 161 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	08/26/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>212</b>	10.0	08/26/2022	ND	249	124	200	3.16		
<b>DRO &gt;C10-C28*</b>	<b>4970</b>	10.0	08/26/2022	ND	262	131	200	5.80		
<b>EXT DRO &gt;C28-C36</b>	<b>940</b>	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 137 % 45.3-161

Surrogate: 1-Chlorooctadecane 440 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 2 1-2' (H223922-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2022	ND	2.10	105	2.00	4.07		
<b>Toluene*</b>	<b>1.17</b>	0.050	08/26/2022	ND	2.08	104	2.00	4.49	GC-NC1	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.00	100	2.00	4.31		
<b>Total Xylenes*</b>	<b>19.3</b>	0.150	08/26/2022	ND	6.27	105	6.00	5.19	GC-NC1	
<b>Total BTEX</b>	<b>20.4</b>	0.300	08/26/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 669 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	08/26/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>1020</b>	10.0	08/26/2022	ND	249	124	200	3.16		
<b>DRO &gt;C10-C28*</b>	<b>6070</b>	10.0	08/26/2022	ND	262	131	200	5.80		
<b>EXT DRO &gt;C28-C36</b>	<b>956</b>	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 253 % 45.3-161

Surrogate: 1-Chlorooctadecane 398 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 2 2-3' (H223922-07)**

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.068</b>	0.050	08/26/2022	ND	2.10	105	2.00	4.07		
<b>Toluene*</b>	<b>0.919</b>	0.050	08/26/2022	ND	2.08	104	2.00	4.49	GC-NC1	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.00	100	2.00	4.31		
<b>Total Xylenes*</b>	<b>14.9</b>	0.150	08/26/2022	ND	6.27	105	6.00	5.19	GC-NC1	
<b>Total BTEX</b>	<b>15.9</b>	0.300	08/26/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 480 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	08/26/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>586</b>	10.0	08/26/2022	ND	249	124	200	3.16		
<b>DRO &gt;C10-C28*</b>	<b>2840</b>	10.0	08/26/2022	ND	262	131	200	5.80		
<b>EXT DRO &gt;C28-C36</b>	<b>428</b>	10.0	08/26/2022	ND						

Surrogate: 1-Chlorooctane 149 % 45.3-161

Surrogate: 1-Chlorooctadecane 152 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 2 3-4' (H223922-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2022	ND	1.87	93.5	2.00	8.28	
Toluene*	<0.050	0.050	08/27/2022	ND	1.80	89.8	2.00	8.50	
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	1.76	87.8	2.00	8.58	
<b>Total Xylenes*</b>	<b>0.229</b>	0.150	08/27/2022	ND	5.44	90.6	6.00	9.23	GC-NC1
Total BTEX	<0.300	0.300	08/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	08/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	249	124	200	3.16	
<b>DRO &gt;C10-C28*</b>	<b>364</b>	10.0	08/26/2022	ND	262	131	200	5.80	
<b>EXT DRO &gt;C28-C36</b>	<b>79.0</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 3 0-1' (H223922-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2022	ND	1.87	93.5	2.00	8.28	
Toluene*	<0.050	0.050	08/27/2022	ND	1.80	89.8	2.00	8.50	
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	1.76	87.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/27/2022	ND	5.44	90.6	6.00	9.23	
Total BTEX	<0.300	0.300	08/27/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3320</b>	16.0	08/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	196	98.2	200	2.06	
<b>DRO &gt;C10-C28*</b>	<b>3440</b>	10.0	08/26/2022	ND	182	91.0	200	1.15	
<b>EXT DRO &gt;C28-C36</b>	<b>726</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 170 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 3 1-2' (H223922-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2022	ND	1.87	93.5	2.00	8.28	
Toluene*	<0.050	0.050	08/27/2022	ND	1.80	89.8	2.00	8.50	
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	1.76	87.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/27/2022	ND	5.44	90.6	6.00	9.23	
Total BTEX	<0.300	0.300	08/27/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>976</b>	16.0	08/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	196	98.2	200	2.06	
<b>DRO &gt;C10-C28*</b>	<b>193</b>	10.0	08/26/2022	ND	182	91.0	200	1.15	
<b>EXT DRO &gt;C28-C36</b>	<b>77.0</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: CS - 3 2-3' (H223922-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2022	ND	1.87	93.5	2.00	8.28	
Toluene*	<0.050	0.050	08/27/2022	ND	1.80	89.8	2.00	8.50	
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	1.76	87.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/27/2022	ND	5.44	90.6	6.00	9.23	
Total BTEX	<0.300	0.300	08/27/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>704</b>	16.0	08/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	196	98.2	200	2.06	
<b>DRO &gt;C10-C28*</b>	<b>116</b>	10.0	08/26/2022	ND	182	91.0	200	1.15	
<b>EXT DRO &gt;C28-C36</b>	<b>30.8</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: NORTH 0-.5' (H223922-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2022	ND	1.87	93.5	2.00	8.28	
Toluene*	<0.050	0.050	08/27/2022	ND	1.80	89.8	2.00	8.50	
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	1.76	87.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/27/2022	ND	5.44	90.6	6.00	9.23	
Total BTEX	<0.300	0.300	08/27/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	196	98.2	200	2.06	
<b>DRO &gt;C10-C28*</b>	<b>495</b>	10.0	08/26/2022	ND	182	91.0	200	1.15	
<b>EXT DRO &gt;C28-C36</b>	<b>165</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: EAST 0-5' (H223922-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2022	ND	1.87	93.5	2.00	8.28	
Toluene*	<0.050	0.050	08/27/2022	ND	1.80	89.8	2.00	8.50	
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	1.76	87.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/27/2022	ND	5.44	90.6	6.00	9.23	
Total BTEX	<0.300	0.300	08/27/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	08/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	196	98.2	200	2.06	
<b>DRO &gt;C10-C28*</b>	<b>522</b>	10.0	08/26/2022	ND	182	91.0	200	1.15	
<b>EXT DRO &gt;C28-C36</b>	<b>250</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: SOUTH 0-.5' (H223922-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2022	ND	1.87	93.5	2.00	8.28	
Toluene*	<0.050	0.050	08/27/2022	ND	1.80	89.8	2.00	8.50	
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	1.76	87.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/27/2022	ND	5.44	90.6	6.00	9.23	
Total BTEX	<0.300	0.300	08/27/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	196	98.2	200	2.06	
<b>DRO &gt;C10-C28*</b>	<b>186</b>	10.0	08/26/2022	ND	182	91.0	200	1.15	
<b>EXT DRO &gt;C28-C36</b>	<b>84.2</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/25/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

**Sample ID: WEST 0-.5' (H223922-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2022	ND	1.87	93.5	2.00	8.28	
Toluene*	<0.050	0.050	08/27/2022	ND	1.80	89.8	2.00	8.50	
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	1.76	87.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/27/2022	ND	5.44	90.6	6.00	9.23	
Total BTEX	<0.300	0.300	08/27/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	196	98.2	200	2.06	
<b>DRO &gt;C10-C28*</b>	<b>12.3</b>	10.0	08/26/2022	ND	182	91.0	200	1.15	
<b>EXT DRO &gt;C28-C36</b>	<b>11.2</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 72.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.0 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
BS1 Blank spike recovery above laboratory acceptance criteria.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: *Essler LLC*  
 Project Manager: *Beaur Jennings*  
 Address: *601 Marinfeld #400*  
 City: *MIDLAND* State: *TX* Zip: *79701*  
 Phone #: *432 230 3344* Fax #: \_\_\_\_\_  
 Project #: *0381417060* Project Owner: *OKY*  
 Project Name: *Pure Gold MDP2 2917 Rd*  
 Project Location: *Eddy County NM*  
 Sampler Name: *SHANE DICER*  
 P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:								
<i>H23923</i>	<i>EMPTY</i>																	
<i>1</i>	<i>C5-1</i>	<i>0-1</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1300</i>	<i>TPH 8015M</i>	<i>X</i>			
<i>2</i>	<i>C5-1</i>	<i>1-2</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1302</i>	<i>BTEX 80216</i>	<i>X</i>			
<i>3</i>	<i>C5-1</i>	<i>2-3</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1304</i>	<i>chloride 4500</i>	<i>X</i>			
<i>4</i>	<i>C5-1</i>	<i>3-4</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1306</i>		<i>X</i>			
<i>5</i>	<i>C5-2</i>	<i>0-1</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1308</i>		<i>X</i>			
<i>6</i>	<i>C5-2</i>	<i>1-2</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1310</i>		<i>X</i>			
<i>7</i>	<i>C5-2</i>	<i>2-3</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1312</i>		<i>X</i>			
<i>8</i>	<i>C5-2</i>	<i>3-4</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1314</i>		<i>X</i>			
<i>9</i>	<i>C5-3</i>	<i>0-1</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1316</i>		<i>X</i>			
<i>10</i>	<i>C5-3</i>	<i>1-2</i>	<i>1</i>	<input checked="" type="checkbox"/>								<i>8-25-22</i>	<i>1318</i>		<i>X</i>			

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Relinquished By: \_\_\_\_\_  
 Date: *8/25/22*  
 Time: *1531*  
 Received By: *Shadrighery*  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One) \_\_\_\_\_  
 Sampler - UPS - Bus - Other: \_\_\_\_\_  
 Observed Temp. °C: *-0.1c*  
 Corrected Temp. °C: *-0.7c*  
 Sample Condition:  Cool  Intact  Yes  No  
 CHECKED BY: *SK*  
 Turnaround Time: \_\_\_\_\_  
 Standard   Rush  
 Bacteria (only)  Cool  Intact  Yes  No  
 Sample Condition Observed Temp. °C: \_\_\_\_\_  
 Corrected Temp. °C: \_\_\_\_\_

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

**CUSTODY SEAL**

DATE: *8-25-22*

SIGNATURE: *[Signature]*

**QEC**  
 Quality Environmental Containers  
 800-255-3950 • 304-255-3900



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: *Enselco LLC* P.O. #: \_\_\_\_\_  
 Project Manager: *Bruce Jennings* Company: \_\_\_\_\_  
 Address: *601 Maricopa Blvd* Attn: \_\_\_\_\_  
 City: *MIDLAND* State: *TX* Zip: *79701* Address: \_\_\_\_\_  
 Phone #: *432-230-3344* Fax #: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project #: *0381417060* Project Owner: *OKY* Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project Name: *Pure Gold MGP 1 2917 Fed*  
 Project Location: *Eddy Co*

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				ICE / COOL	OTHER :	
<i>H039900</i>	<i>CS-3</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>8-25-22</i>	<i>1320</i>	<i>TPH 8015m</i>	<i>BTEX 8021b</i>	<i>Chlorides 4500</i>						
<i>11</i>	<i>WARTL</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>8-25-22</i>	<i>1325</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<i>12</i>	<i>East</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>8-25-22</i>	<i>1327</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<i>13</i>	<i>SOUTL</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>8-25-22</i>	<i>1329</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<i>14</i>	<i>West</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>8-25-22</i>	<i>1331</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<i>15</i>	<i>West</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>8-25-22</i>	<i>1331</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<i>NOTE 8-25-22</i>																

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

Relinquished By: \_\_\_\_\_ Date: *8/25/22* Received By: *Shodriqwe* Date: *8/25/22*  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Delivered By: (Circle One)  UPS  Bus  Other: \_\_\_\_\_  
 Observed Temp. °C: *0.12* Sample Condition:  Cool  Intact  Yes  No  
 Corrected Temp. °C: *-0.72* CHECKED BY: *SR* (Initials)  
 Turnaround Time: \_\_\_\_\_ Standard  Rush   
 Thermometer ID #113 *0.12* Bacteria (only) Sample Condition:  Cool  Intact  Yes  No  
 Corrosion Factor: *-0.5°C* Corrected Temp. °C: \_\_\_\_\_

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)  
*8/25/22*



ATTACHMENT F

C-141

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

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

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

Incident ID	nAPP2222430401
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Tyson Pierce	Contact Telephone: 575-390-3610
Contact email: tyson_pierce@oxy.com	Incident # nAPP2222430401
Contact mailing address: PO Box 4294, Houston, TX 77210	

### Location of Release Source

Latitude 32.2721838 Longitude -103.8021430  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name: Pure Gold MDPI 29 17 Fed Com 171H	Site Type: Tank Battery
Date Release Discovered: 5/25/2022	API#

Unit Letter	Section	Township	Range	County
K	29	23S	31E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 6	Volume Recovered (bbls): 5
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 7	Volume Recovered (bbls): 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

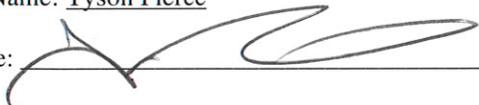
Cause of Release: Air eliminator cracked and the divert back pressure valve diaphragm failed.

Incident ID	nAPP2222430401
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Tyson Pierce</u> Title: <u>Environmental Specialist</u> Signature:  Date: <u>10/17/2022</u> email: <u>tyson_pierce@oxy.com</u> Telephone: <u>575-390-3610</u>
<b><u>OCD Only</u></b> Received by: _____ Date: _____

Incident ID	nAPP2222430401
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

- Characterization Report Checklist:** *Each of the following items must be included in the report.*
- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
  - Field data
  - Data table of soil contaminant concentration data
  - Depth to water determination
  - Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
  - Boring or excavation logs
  - Photographs including date and GIS information
  - Topographic/Aerial maps
  - Laboratory data including chain of custody

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

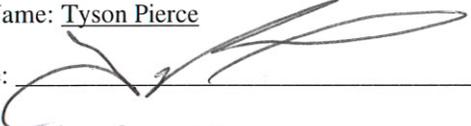
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2222430401
District RP	
Facility ID	
Application ID	

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

Printed Name: Tyson Pierce

Title: Environmental Specialist

Signature: 

Date: 10/17/2022

email: tyson\_pierce@oxy.com

Telephone: 575-390-3610

**OCD Only**

Received by: Jocelyn Harimon

Date: 10/18/2022

Incident ID	nAPP2222430401
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Wade Dittrich

Title: Environmental Specialist

Signature: 

Date: 10/17/2022

email: wade\_dittrich@oxy.com

Telephone: 575-390-2828

**OCD Only**

Received by: Jocelyn Harimon

Date: 10/18/2022

Approved

Approved with Attached Conditions of Approval

Denied

Deferral Approved

Signature: 

Date: 01/09/2023

Soil samples will need to meet Table 1 Closure Criteria for proven depth to water determination. Closure samples should be representative of no more than 200 ft2, unless a variance has been approved. The samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Please make sure the edges/sidewalls are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH, defining the edge of the release.

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

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

CONDITIONS

Action 151425

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 151425
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jharimon	Soil samples will need to meet Table 1 Closure Criteria for proven depth to water determination. Closure samples should be representative of no more than 200 ft2, unless a variance has been approved. The samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Please make sure the edges/sidewalls are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH, defining the edge of the release.	1/9/2023