



CLOSURE REPORT

Property:

Pure Gold MDP1 29 17 Fed Com 171H

**Eddy County, New Mexico
32.271669 N, 103.802408 W
NMOCD Incident ID: nAPP2222430401**

April 7, 2023

Ensolum Project No. 03B1417060

Prepared for:

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

Prepared by:


Beaux Jennings
Senior Project Manager

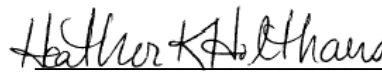

Heather Holthaus
Senior Project Manager



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ENSOLUM

CLOSURE REPORT

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Eddy County, New Mexico
32.271669 N, 103.802408 W
NMOCD Incident ID: nAPP2222430401

Ensolum Project No. 03B1417060

1.0 INTRODUCTION

1.1 Executive Summary

- On May 25, 2022, a release of crude oil and produced water was reported when an air eliminator cracked and the divert back pressure valve diaphragm failed at the Pure Gold MDP1 29 17 Fed Com 171H, hereinafter referred to as the "Site". Approximately 6 barrels (bbls) of crude oil and approximately 7 bbls of produced water were released to the ground surface affecting an area approximately 110 feet by 70 feet. Approximately 5 bbls of crude oil and 5 bbls of produced water were subsequently recovered.
- On August 25, 2022, Ensolum arrived on-Site and collected a total of 11 composite pothole soil samples from 3 locations (CS-1 and CS-3) at one-foot intervals down to a depth of 3 to 4 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. A *Remediation Workplan*, dated October 17, 2022, was prepared by Ensolum and subsequently submitted to the New Mexico Oil Conservation Division (OCD). The workplan included the results of the August 2022 sampling and stated that the release area would be excavated down to a minimum of 4 feet bgs. Oxy USA Inc. (Oxy) subsequently began excavating the release area with a backhoe excavator, and the excavated soils were taken off-Site for proper disposal.
- On March 20 and 28, 2023, subsequent to completion of excavation activities, Ensolum arrived on-Site and collected 19 composite soil samples from the excavation floor (FS-1 through FS-19) at a depth of 4 feet bgs, and 4 composite soil samples from the excavation sidewalls (SW-1 through SW-4) at depths ranging from 0-4 feet bgs. In addition, 3 delineation sample points (North, East, and South) were resampled at depths ranging from 0-0.5 feet bgs.
- 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) OCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- A total of 19 composite soil samples from the excavation floor (FS-1 through FS-19), four composite soil samples from the excavation sidewalls (SW-1 through SW-4), and three delineation composite soil samples (North, East, and South) were collected.
- Based on the laboratory analytical results, the final composite soil samples collected did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO) and/or motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade.

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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:	Pure Gold MDP1 29 17 Fed Com 171H
Location:	32.2721669° N, 103.802408° 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 Site is located in Unit K, Section 29, Township 23 South, Range 31 East, in Eddy County, New Mexico (32.2721669° N, 103.802408° 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 when an air eliminator cracked and the divert back pressure valve diaphragm failed. Approximately 6 bbls of crude oil and approximately 7 bbls of produced water were released to the ground surface affecting an area approximately 110 feet by 70 feet. Approximately 5 bbls of crude oil and 5 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 3 to 4 feet bgs within the release area. Additionally, 4 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.

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

1.3 Project Objective

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

2.0 CLOSURE CRITERIA

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

- The Site is not located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or any other significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.

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- 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, also referred to as low karst.
- The Site is noted to be located within an area of minimal flood hazard.
- According to the OSE WRSS database, there is a former plugged and abandoned monitoring well (C 04553 POD1), located approximately 0.31-mile northeast of the Site, that was installed to determine the depth to groundwater. Based on the results of the monitoring well, the depth to groundwater in the area is greater than 100 feet bgs.

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

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
> 100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+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

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3.0 SOIL REMEDIATION ACTIVITIES

On May 25, 2022, a release of crude oil and produced water was reported when an air eliminator cracked and the divert back pressure valve diaphragm failed. Approximately 6 bbls of crude oil and approximately 7 bbls of produced water were released to the ground surface affecting an area approximately 110 feet by 70 feet. Approximately 5 bbls of crude oil and 5 bbls of produced water were recovered.

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On March 20 and 28, 2023, subsequent to completion of excavation activities, Ensolum arrived on-Site and collected 19 composite soil samples from the excavation floor (FS-1 through FS-19) at a depth of 4 feet bgs, and 4 composite soil samples from the excavation sidewalls (SW-1 through SW-4) at depths ranging from 0-4 feet bgs. In addition, 3 delineation sample points (North, East, and South) were resampled at depths ranging from 0-0.5 feet bgs.

The composite soil samples were analyzed for BTEX, TPH and chloride in accordance with NMOCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The lithology encountered during the completion of sampling activities consisted primarily of a poorly graded very fine brown sand.

Figure 3 identifies approximate composite 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 19 composite soil samples from the excavation floor (FS-1 through FS-19), 4 composite soil samples from the excavation sidewalls (SW-1 through SW-4), and 3 delineation composite soil samples (North, East, and South).

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

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6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO/MRO, and chloride concentrations associated with the composite soil samples collected from the excavation floor, sidewalls, and delineation points (FS-1 through FS-19, SW-1 through SW-4, North, East, and South) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the final composite 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 final composite soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the final composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg for groundwater >100 feet.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for groundwater >100 feet.
- Laboratory analytical results indicate chloride concentrations for the final composite soil samples exhibited chloride concentrations ranging from 16.0 mg/kg to 1,060 mg/kg, which are below the applicable NMOCD Closure Criteria of 20,000 mg/kg for groundwater >100 feet.

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

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade. Once the area was brought back to original grade, a BLM approved seed mixture was sown into the surface area of the backfill for re-vegetation.

8.0 FINDINGS AND RECOMMENDATION

- On May 25, 2022, a release of crude oil and produced water was reported when an air eliminator cracked and the divert back pressure valve diaphragm failed. Approximately 6 bbls of crude oil and approximately 7 bbls of produced water were released to the ground surface affecting an area approximately 110 feet by 70 feet. Approximately 5 bbls of crude oil and 5 bbls of produced water were recovered.
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- A total of 19 composite soil samples from the excavation floor (FS-1 through FS-19), 4 composite soil samples from the excavation sidewalls (SW-1 through SW-4), and 3 delineation composite soil samples (North, East, and South) were collected.
- Based on the laboratory analytical results, the final composite soil samples collected did not exhibit benzene, total BTEX, TPHGRO/DRO, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCDC Closure Criteria. Subsequent to the results of the confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings, and recommendations are based solely upon data available to Ensolum at the time of these services.

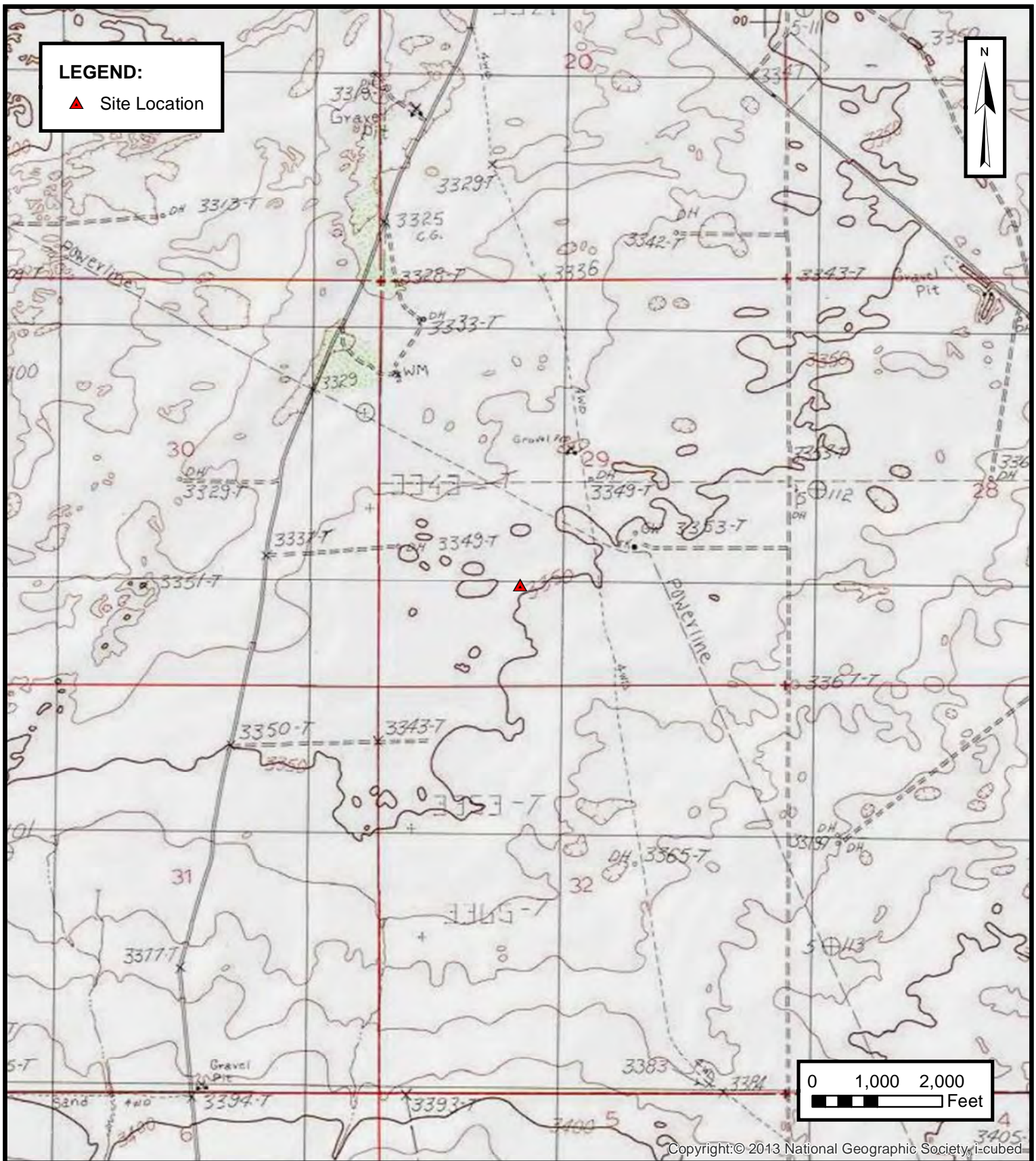
9.3 Reliance

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



APPENDIX A

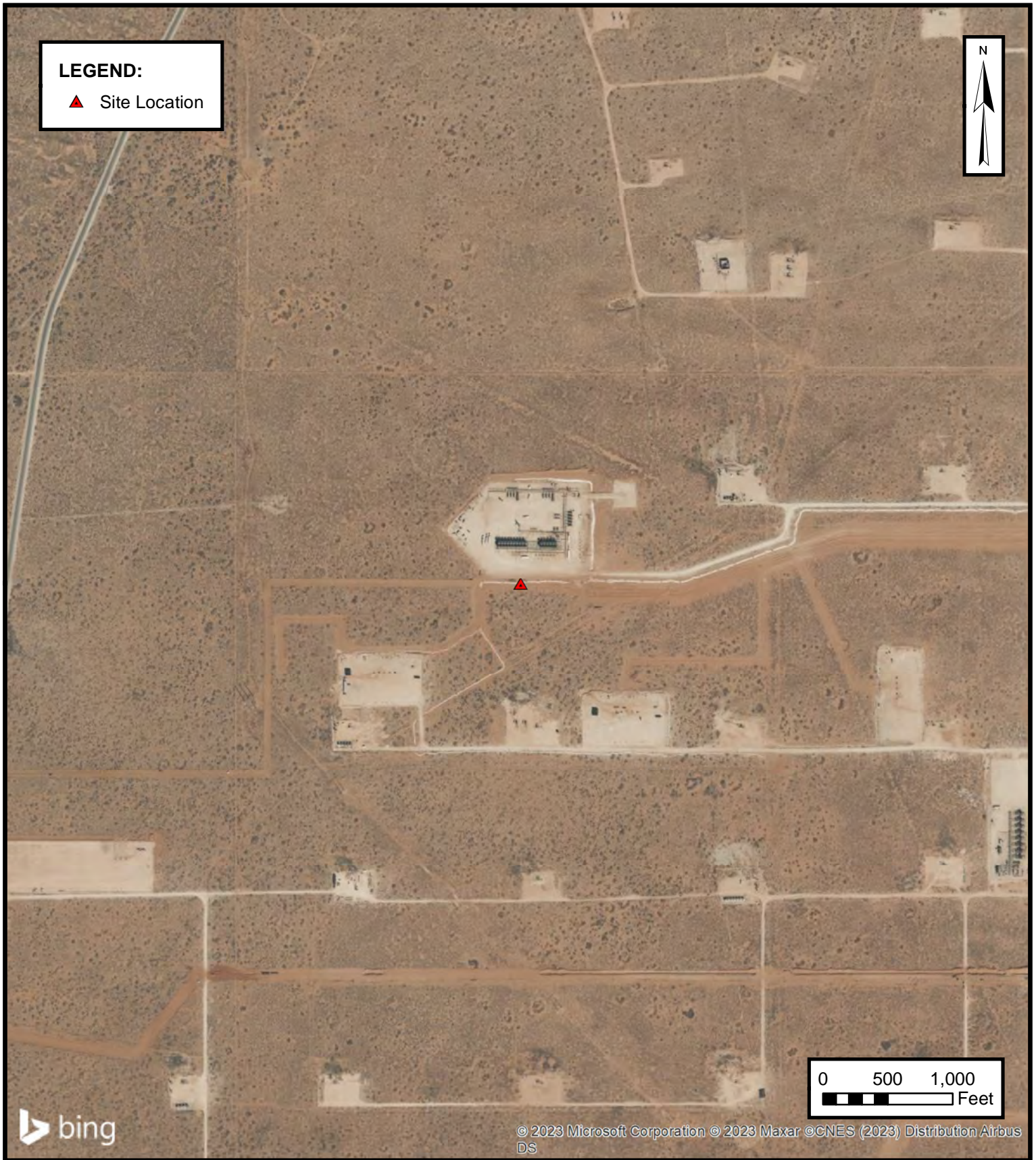
Figures



TOPOGRAPHIC MAP
OXY USA INC.
PURE GOLD MDP1 2917 FED. COM. 171H
Eddy County, New Mexico
32.271669° N, 103.802408° W

PROJECT NUMBER: 03B1417060

FIGURE
1



SITE VICINITY MAP

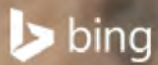
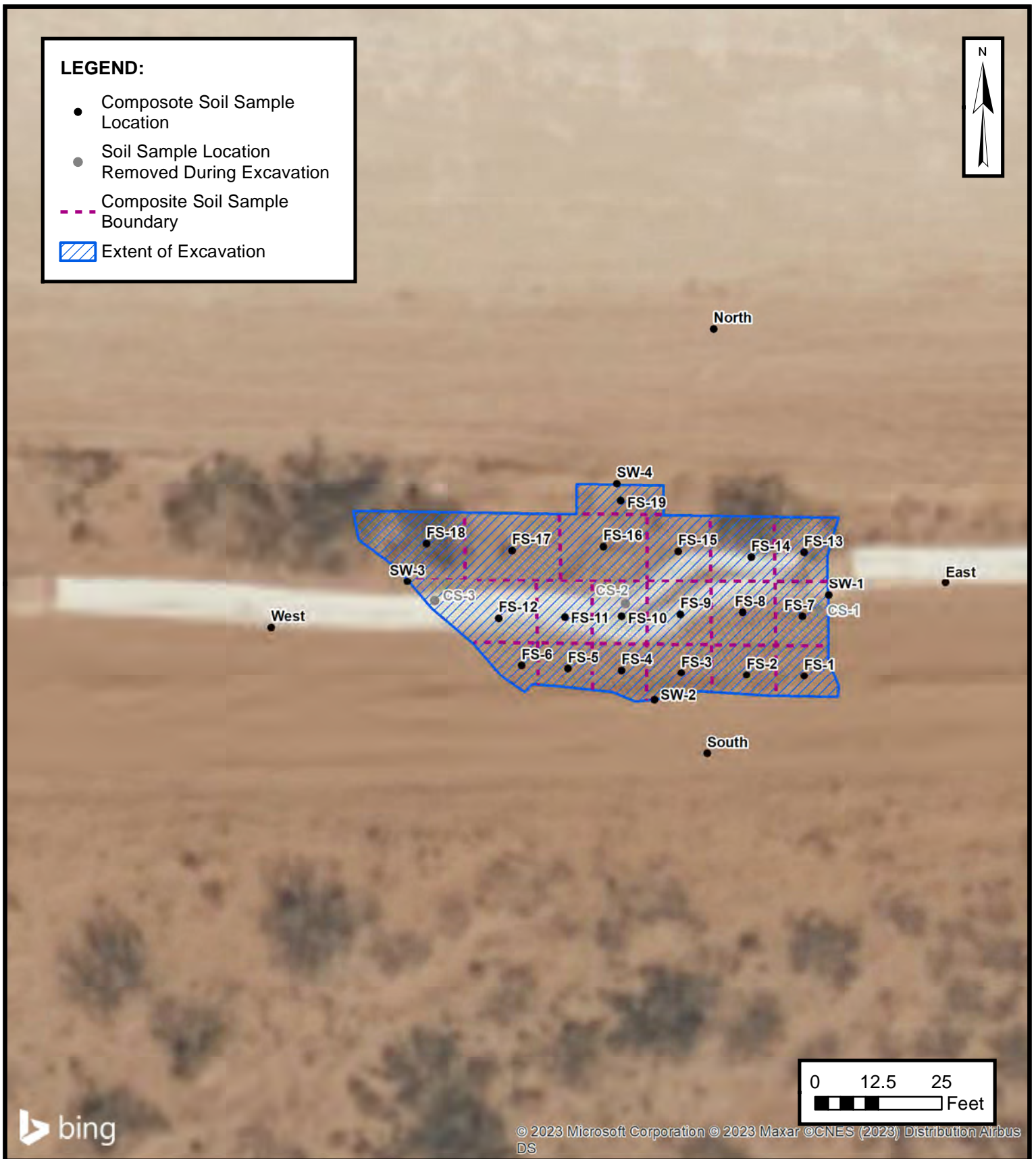
OXY USA INC.
PURE GOLD MDP1 2917 FED. COM. 171H
Eddy County, New Mexico
32.271669° N, 103.802408° W

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FIGURE

2

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



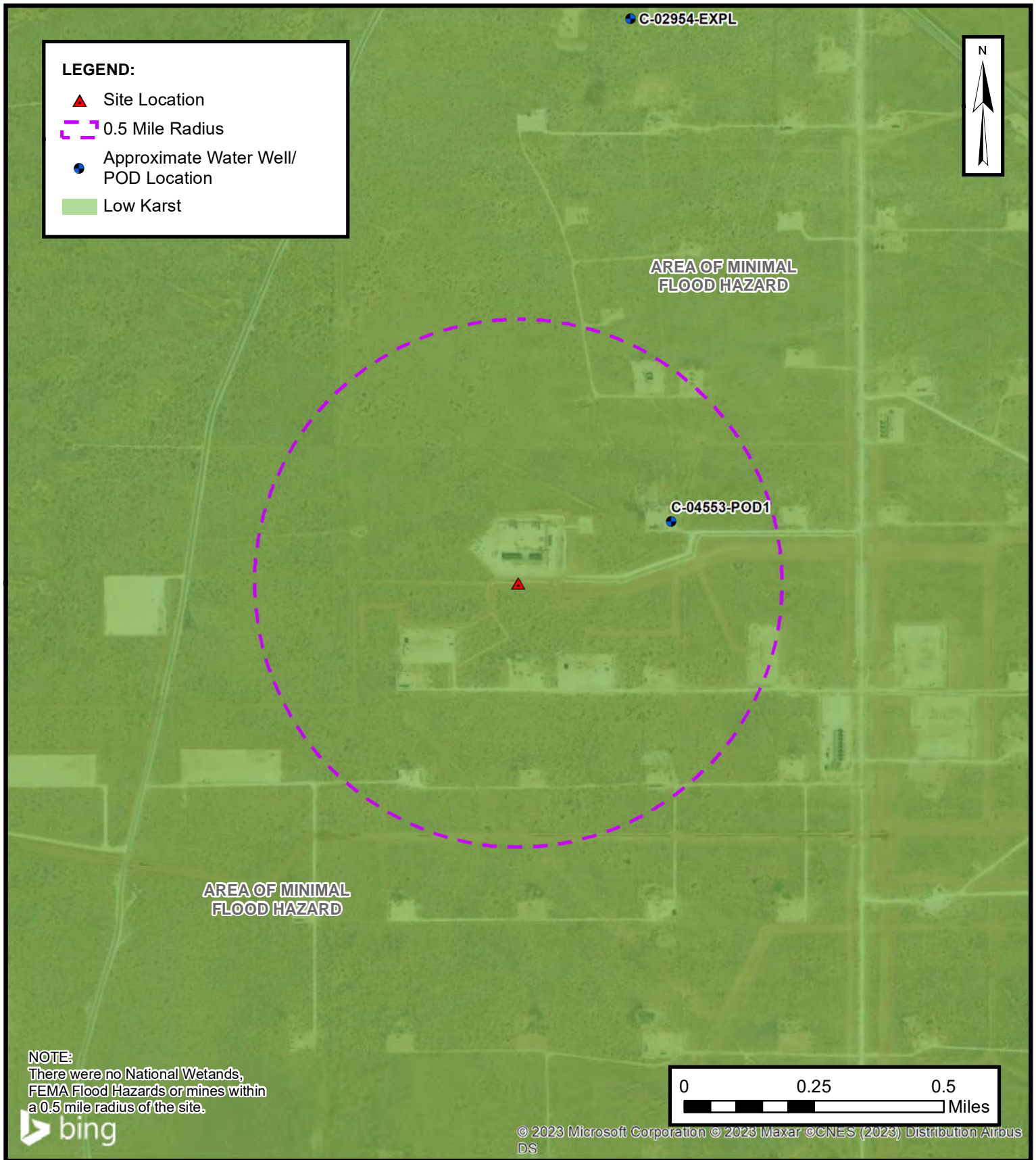
SITE MAP

OXY USA INC.
 PURE GOLD MDP1 2917 FED. COM. 171H
 Eddy County, New Mexico
 32.271669° N, 103.802408° W

PROJECT NUMBER: 03B1417060

FIGURE

3

**CLOSURE CRITERIA MAP**

OXY USA INC.
 PURE GOLD MDP1 2917 FED. COM. 171H
 Eddy County, New Mexico
 32.271669° N, 103.802408° W

PROJECT NUMBER: 03B1417060

FIGURE**4**

ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants



APPENDIX B

Supporting Documentation

National Flood Hazard Layer FIRMette



103°48'26"W 32°16'35"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 103°47'49"W 32°16'5"N

Released to Imaging: 4/14/2023 4:31:54 PM

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

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

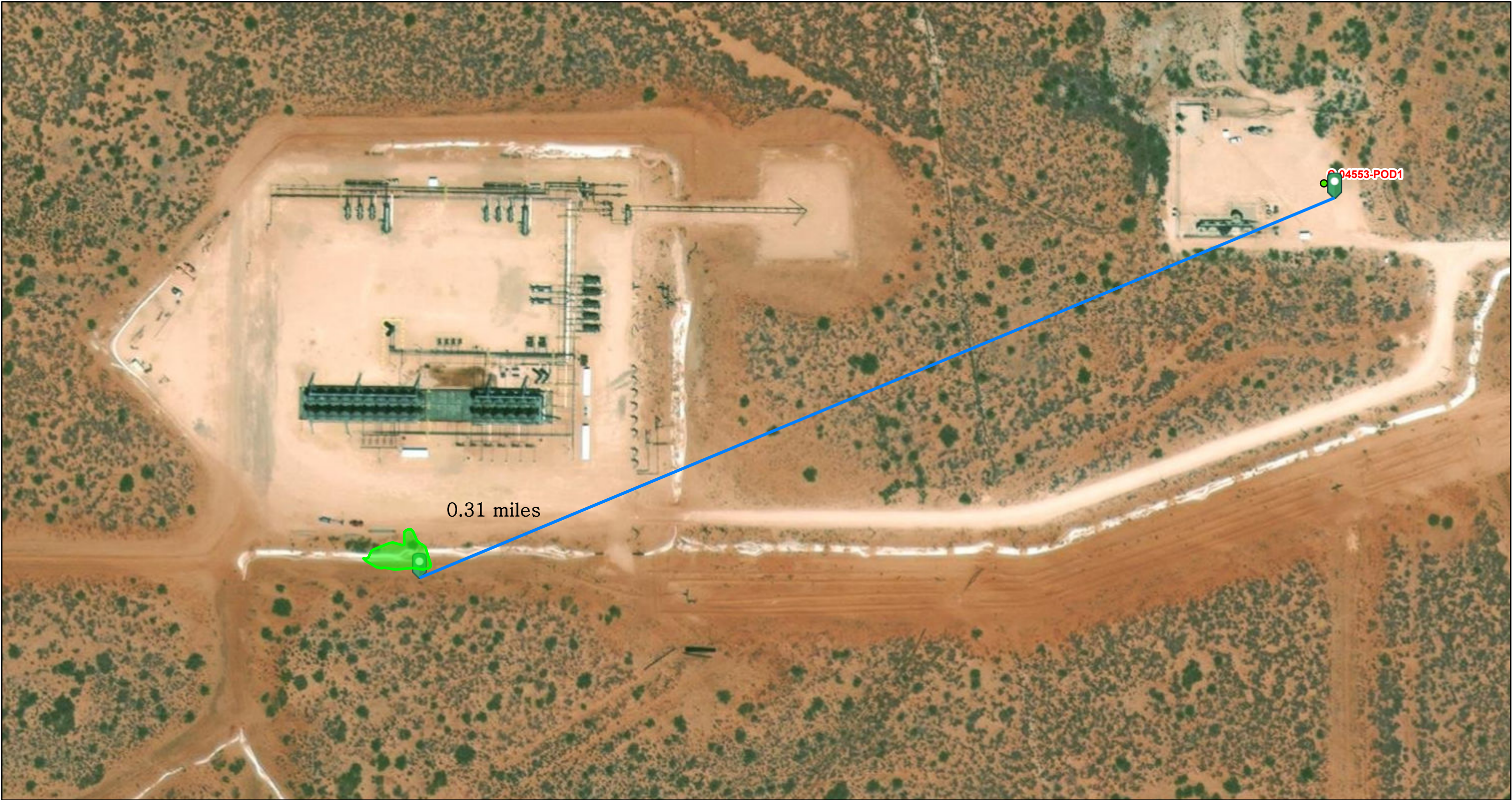


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 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.

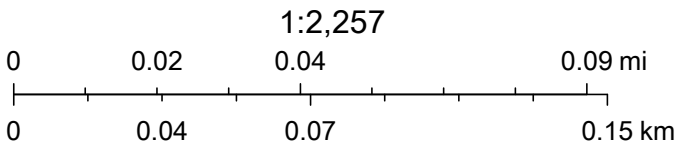
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

OSE POD Locations Map



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

- Override 1
- AREA_FF00FF00
- GIS WATERS PODs
- 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
**Point of Diversion				
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 TO DRILLING THE BORING TO ENSURE THAT SUBSURFACE INFRASTRUCTURE WILL NOT BE ENCOUNTERED WHEN DRILLING THIS BOREHOLE. THIS EXPLORATORY BORING WILL BE DRILLED 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 CONSERVATIONSL DIVISION REQUIREMENTS, THE BOREHOLE MUST REMAIN OPEN FOR 72 HOURS TO DEMONSTRATE THAT

THE BORING IS DRY. MEASUREMENT WILL BE DONE BY A PROFESSIONAL GEOLOGIST AND WITNESSED BY THE DRILLER PRIOR TO PLUGGING THE 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.

8/11/22 1:07 PM

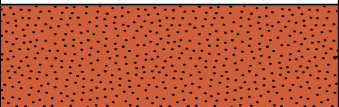
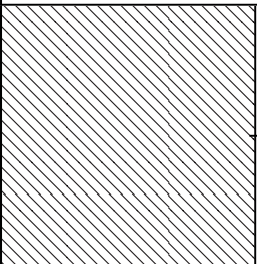
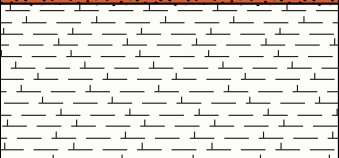
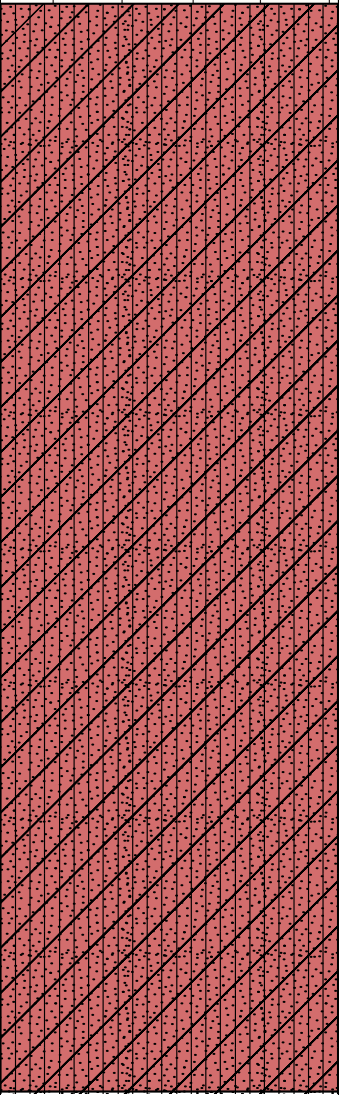
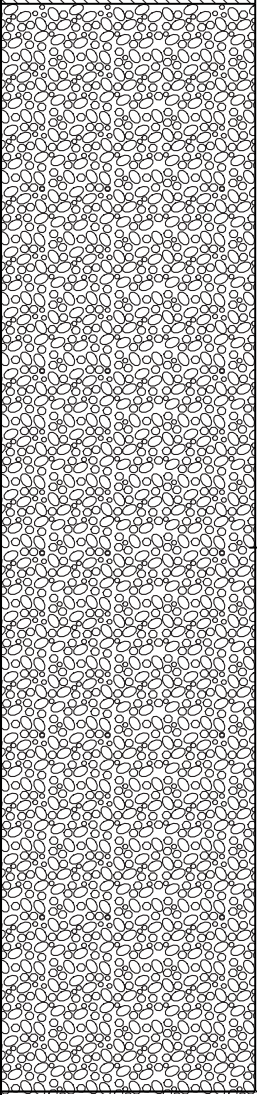
TRANSACTION SUMMARY



BOREHOLE LOG C-4553 POD 1

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

COMMENTS South of large mesquite bush - west side of pad	LOGGED BY John Farrell P.G.
	CHECKED BY Dan Dunkelburg

Graphic Log	Material Description	Plugging Diagram	Elevation (ft)
	Sand, red, dry	 10 Haliburton Hole Plug + 5 gal water/bag	5
	Caliche, white, dry		10
	Claystone, silty, reddish orange, dry	 backfill	15
			20
			25
			30
			35
			40
			45
			50
			55
			60
			65
			70
			75
			80
			85
			90
			95
			100
Termination Depth at: 103 feet			

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

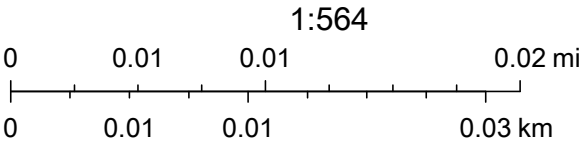
OCD Well Locations



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

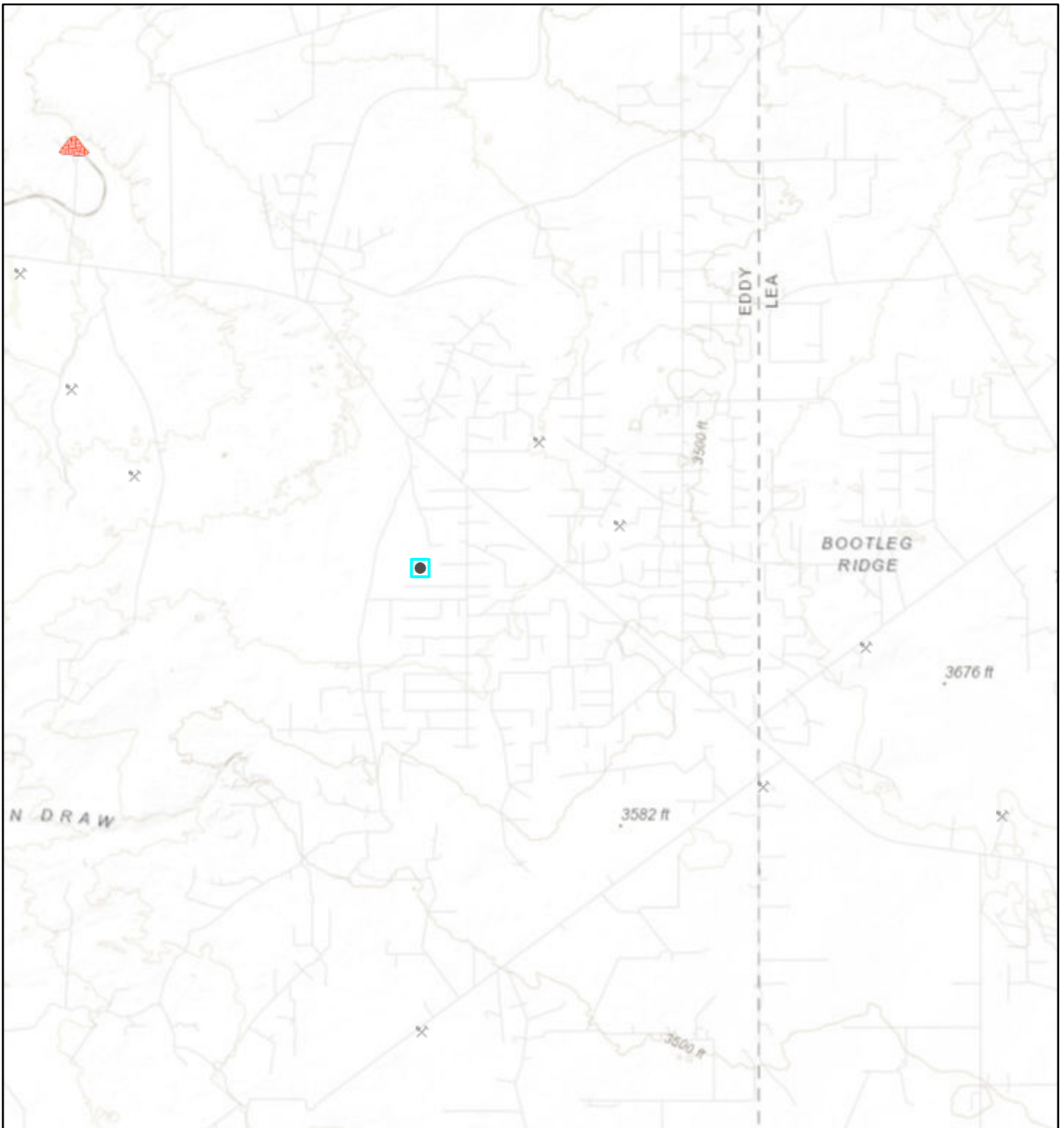
Karst Occurrence Potential

- 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

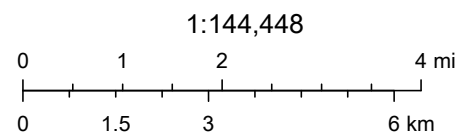
Active Mines in New Mexico



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

Registered Mines

-  Aggregate, Stone etc.
-  Aggregate, Stone etc.
-  Potash



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



Wetlands Mapper



September 26, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



APPENDIX C

Photographic Documentation



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



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



View of excavation area after completion of remediation activities, facing south.



View of excavation area after completion of remediation activities, facing east.



View of excavation area after completion of remediation activities, facing southeast.



View of excavation area after completion of remediation activities, facing south.



APPENDIX D

Tables



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Pure Gold MDP1 29 17 Fed Com 171H
 Oxy USA Inc.
 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 (> 100 feet)			10	NE	NE	NE	50	1,000		NE	2,500	20,000
Floor Sample Analytical Results												
FS-1	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	24.7		<10.0	24.7	192
FS-2	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	23.9		<10.0	23.9	848
FS-3	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	96.0
FS-4	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	64.0
FS-5	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	64.0
FS-6	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	20.6		<10.0	20.6	16.0
FS-7	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	64.0
FS-8	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	59.0		<10.0	59.0	320
FS-9	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	48.0
FS-10	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	80.0
FS-11	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	69.5		<10.0	69.5	1,060
FS-12	3/20/2023	4	<0.050	<0.050	<0.050	0.187	<0.300	526		60.1	586	96.0
FS-13	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	80.0
FS-14	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	64.0
FS-15	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	48.0
FS-16	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	128
FS-17	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	124		17.9	142	544
FS-18	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	17.7		<10.0	17.7	64.0
FS-19	3/20/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	48.0
Sidewall Sample Analytical Results												
SW-1	3/20/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	11.1		<10.0	11.1	96.0
SW-2	3/20/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	112
SW-3	3/20/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	64.0
SW-4	3/20/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	64.0
Pothole Sample Analytical Results												
CS-1	8/25/2022	0 - 1	<0.050	0.094	1.57	1.64	3.30	7,377		1,160	8,537	880
		1 - 2	<0.100	0.499	<0.100	12.0	12.5	5,555		738	6,293	160
		2 - 3	<0.050	0.299	<0.050	7.59	7.89	4,371		589	4,960	240
		3 - 4	0.081	1.85	<0.050	25.0	27.0	8,220		959	9,179	1,500
CS-2	8/25/2022	0 - 1	<0.050	0.131	<0.050	3.43	3.56	5,182		940	6,122	64.0
		1 - 2	<0.050	1.17	<0.050	19.3	20.4	7,090		956	8,046	64.0
		2 - 3	0.068	0.919	<0.050	14.9	15.9	3,426		428	3,854	64.0
		3 - 4	<0.050	<0.050	<0.050	0.229	<0.300	364		79.0	443	256
CS-3	8/25/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	3,440		726	4,166	3,320
		1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	193		77.0	270	976
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	116		30.8	147	704
Delineation Sample Analytical Results												
NORTH	8/25/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	495		165	660	80.0
	3/28/2023	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	128
EAST	8/25/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	522		250	772	96.0
	3/28/2023	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	16.0
SOUTH	8/25/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	186		84.2	270	48.0
	3/28/2023	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	32.0
WEST	8/25/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	12.3		11.2	23.5	48.0

Concentrations in bold and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)

Over Excavated and/or Re-Sampled

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation



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

March 23, 2023

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

RE: PURE GOLD MDP1 2917 FED COM 171H

Enclosed are the results of analyses for samples received by the laboratory on 03/20/23 14:31.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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:	03/20/2023	Sampling Date:	03/20/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	PURE GOLD MDP1 2917 FED COM 171H	Sampling Condition:	Cool & Intact
Project Number:	03B1417060	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO NM		

Sample ID: FS - 1 4' (H231244-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02	
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54	
Total BTX	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/21/2023	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	03/21/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	24.7	10.0	03/21/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 2 4' (H231244-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02		
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54		
Total BTEx	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	03/21/2023	ND	432	108	400	0.00	QM-07, QR-03

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	23.9	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 3 4' (H231244-03)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02		
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54		
Total BTX	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 4 4' (H231244-04)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02		
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54		
Total BTX	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 5 4' (H231244-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02		
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54		
Total BTEX	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 6 4' (H231244-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02		
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54		
Total BTEX	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	20.6	10.0	03/21/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 7 4' (H231244-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02		
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54		
Total BTEX	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 8 4' (H231244-08)

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	03/22/2023	ND	2.18	109	2.00	3.02	
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54	
Total BTEX	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	59.0	10.0	03/21/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 9 4' (H231244-09)

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	03/22/2023	ND	2.18	109	2.00	3.02		
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54		
Total BTEX	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 10 4' (H231244-10)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02	
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54	
Total BTX	<0.300	0.300	03/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 11 4' (H231244-11)

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	03/22/2023	ND	2.18	109	2.00	3.02	
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54	
Total BTEX	<0.300	0.300	03/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	69.5	10.0	03/21/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 12 4' (H231244-12)

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	03/22/2023	ND	2.18	109	2.00	3.02	GC-NC1	
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30		
Total Xylenes*	0.187	0.150	03/22/2023	ND	6.78	113	6.00	2.54		
Total BTEX	<0.300	0.300	03/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	526	10.0	03/22/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	60.1	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 13 4' (H231244-13)

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	03/22/2023	ND	2.18	109	2.00	3.02	
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54	
Total BTEX	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 14 4' (H231244-14)

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	03/22/2023	ND	2.18	109	2.00	3.02	
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54	
Total BTEX	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 15 4' (H231244-15)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02	
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54	
Total BTX	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 16 4' (H231244-16)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.02	
Toluene*	<0.050	0.050	03/22/2023	ND	2.19	110	2.00	2.53	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.18	109	2.00	3.30	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.78	113	6.00	2.54	
Total BTEX	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 17 4' (H231244-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.24	112	2.00	1.42		
Toluene*	<0.050	0.050	03/22/2023	ND	2.28	114	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.22	111	2.00	1.86		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.94	116	6.00	1.71		
Total BTEx	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	124	10.0	03/22/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	17.9	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 18 4' (H231244-18)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.24	112	2.00	1.42	
Toluene*	<0.050	0.050	03/22/2023	ND	2.28	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.22	111	2.00	1.86	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.94	116	6.00	1.71	
Total BTEX	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	17.7	10.0	03/22/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 19 4' (H231244-19)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.24	112	2.00	1.42	
Toluene*	<0.050	0.050	03/22/2023	ND	2.28	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.22	111	2.00	1.86	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.94	116	6.00	1.71	
Total BTEx	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 0-4' (H231244-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.24	112	2.00	1.42		
Toluene*	<0.050	0.050	03/22/2023	ND	2.28	114	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.22	111	2.00	1.86		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.94	116	6.00	1.71		
Total BTEX	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	164	81.9	200	3.79	
DRO >C10-C28*	11.1	10.0	03/22/2023	ND	177	88.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 0-4' (H231244-21)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.24	112	2.00	1.42	
Toluene*	<0.050	0.050	03/22/2023	ND	2.28	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.22	111	2.00	1.86	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.94	116	6.00	1.71	
Total BTEx	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	156	78.2	200	12.3	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	158	79.0	200	16.7	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 0-4' (H231244-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.24	112	2.00	1.42		
Toluene*	<0.050	0.050	03/22/2023	ND	2.28	114	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.22	111	2.00	1.86		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.94	116	6.00	1.71		
Total BTEX	<0.300	0.300	03/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	156	78.2	200	12.3	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	158	79.0	200	16.7	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2023
 Reported: 03/23/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 0-4' (H231244-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2023	ND	2.24	112	2.00	1.42		
Toluene*	<0.050	0.050	03/22/2023	ND	2.28	114	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.22	111	2.00	1.86		
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.94	116	6.00	1.71		
Total BTEX	<0.300	0.300	03/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	156	78.2	200	12.3	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	158	79.0	200	16.7	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

page 1 of 3

Company Name: Ensolum, LLC
Project Manager: Beaux Jennings

Address: 601 N. Marlandfield St. STE 400

City: Midland

Phone #: 210-219-8858

State: TX Zip: 79701

Fax #:

Project #: 03B1417660

Project Owner:

Project Name: Pyrexoid MOP 2017 FED.COM. 171H

Project Location: 32.2421838, -103.5024430

Sampler Name: Kailee Smith

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Oxy USA, Inc.

Attn: Wade Dittich

Address:

City:

State: Zip:

Phone #: 575-390-2828

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

Sample Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

DATE

TIME

DATE

TIME

DATE

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Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

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Relinquished By:

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Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Yes No

Yes No

Checked By:

Thermometer ID #113

Corrosion Factor -0.5°C

Standard

Rush

Bacteria (only)

Cool Intact

Yes No

Yes No

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Observed Temp. °C

Corrected Temp. °C

Observed Temp. °C

Corrected Temp. °C

Observed Temp. °C

Corrected Temp. °C

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST	
Project Manager: Beaux Jennings		Company: Oxy USA, Inc.			
Address: 601 N. Marientfield St. STE 400		Attn: Wade Dittich			
City: Midland		Address:			
Phone #: 210-219-8858		City:			
Fax #: 575-390-2828		State:			
Project #: 03B1417660		Zip:			
Project Name: Purrenold MDP1 2917 FED.com. 171H		Phone #:			
Project Location: 32.2721438, -103.8021430		Fax #:			
Sampler Name: Kailee Smith					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			ACID/BASE:	ICE / COOL	OTHER :
183344	FS-11	4'	C	1	X						3-20-23	1102	X	X	Chlorides 4560
19	FS-12	4'	C	1	X						3-20-23	1104	X	X	BTEX 80216
13	FS-13	4'	C	1	X						3-20-23	1106	X	X	TPH 8015M
14	FS-14	4'	C	1	X						3-20-23	1108	X	X	
15	FS-15	4'	C	1	X						3-20-23	1110	X	X	
16	FS-16	4'	C	1	X						3-20-23	1112	X	X	
17	FS-17	4'	C	1	X						3-20-23	1114	X	X	
18	FS-18	4'	C	1	X						3-20-23	1116	X	X	
19	FS-19	4'	C	1	X						3-20-23	1118	X	X	
20	SW-1	0-4'	C	1	X						3-20-23	1210	X	X	

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact		Thermometer ID #113	Rush	Cool Intact	Observed Temp. °C
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C

Relinquished By:	Date: 3/20/23	Received By: Beaux Jennings	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 3/20/23	Received By: Beaux Jennings	All Results are emailed. Please provide Email address:	
			BeauxJennings@ensolum.com	
REMARKS:				

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

[illegible]



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

March 30, 2023

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

RE: PURE GOLD MDP1 2917 FED COM 171H

Enclosed are the results of analyses for samples received by the laboratory on 03/28/23 11:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/28/2023
 Reported: 03/30/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NORTH 0-0.5' (H231403-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4		
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6		
Total BTEX	<0.300	0.300	03/29/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/29/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/28/2023
 Reported: 03/30/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EAST 0-0.5' (H231403-02)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4		
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6		
Total BTX	<0.300	0.300	03/29/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/29/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/28/2023
 Reported: 03/30/2023
 Project Name: PURE GOLD MDP1 2917 FED COM 171H
 Project Number: 03B1417060
 Project Location: OXY - EDDY CO NM

Sampling Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SOUTH 0-0.5' (H231403-03)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTX	<0.300	0.300	03/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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


A handwritten signature in black ink, appearing to read "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

Company Name: Ensolum, LLC Project Manager: Beaux Jennings Address: 601 N. Mainfield St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 210-219-8858 Fax #: Project #: 0381417060 Project Owner: Project Name: Burdick MDP 1 2417 FER.COM. 171H Project Location: 32.2721838, -103.8021430 Sample Name: Kaiter Smith <small>FOR LAB USE ONLY</small>				P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:									
Lab I.D. H231403		Sample I.D. North East South		Sample Depth (feet) 0-0.5' 0-0.5' 0-0.5'		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE 3/8/23 3/28/23 3/28/23		TIME 0924 0926 0929		Chlorides 4500 BTEX 8021b TPH 8015m	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 5.12 Corrected Temp. °C 4.52		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CHECKED BY: (Initials) SR		Turnaround Time: Thermometer ID #113 Correction Factor -0.02		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Sample Condition Observed Temp. °C Corrected Temp. °C					
Relinquished By: 		Date: 3/8/23 Time: 1115 Received By: Spodeigney Date: Time:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: Bjennings@ensolum.com		REMARKS:							



APPENDIX F

C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	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 type="checkbox"/> Yes <input checked="" 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.

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	nAPP2222430401
District RP	
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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*

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Tyson PierceTitle: Environmental SpecialistSignature: Date: 4-7-23email: tyson_pierce@oxy.comTelephone: 575-390-3610**OCD Only**

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

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

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

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

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

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

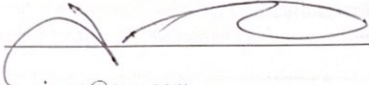
Form C-141

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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 PierceTitle: Environmental SpecialistSignature: 

Date: _____

email: tyson_pierce@oxy.comTelephone: 575-390-3610**OCD Only**

Received by: _____

Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2222430401
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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 OCD 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: Tyson PierceTitle: Environmental SpecialistSignature: 

Date: _____

email: tyson_pierce@oxy.comTelephone: 575-390-3610**OCD Only**Received by: Jocelyn HarimonDate: 04/10/2023

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

Closure Approved by: Date: 04/14/2023Printed Name: Jocelyn HarimonTitle: Environmental Specialist

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 205138

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 205138
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/14/2023