



April 14, 2023

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

Re: Remediation Work Plan
Mills 19 #001 CTB
32.37825° N, 103.72201° W
Lea County, New Mexico
Incident ID: nAPP2302535216
Ensolum Project No. 03B1417072

Dear Mr. Dittrich:

Ensolum, LLC (Ensolum) has prepared this Remediation Work Plan to perform environmental consulting services in the vicinity of the Mills 19 #001 CTB, referred to hereinafter as the "Site." The Site is located off Red Rd and an unnamed caliche road, approximately 23 miles northeast of Loving in Lea County, New Mexico.

I. SITE DESCRIPTION & BACKGROUND

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Mills 19 #001 CTB
Location:	32.37825° N, 103.72201° W Lea County, New Mexico
Property:	Private (Mills Family Partnership LTD)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Site is located in Unit F, Section 19, Township 22 South, Range 32 East, in Lea County, New Mexico (32.37825° N, 103.72201° W) and is associated with oil and gas exploration and production operations on private property (Mills Family Partnership LTD).

On January 23, 2023, a release of crude oil and produced water was reported due to a failure on a transfer pump. Approximately 51 barrels (bbls) of crude oil and 34 bbls of produced water were released inside of the tank battery's earthen berm containment, with 48 bbls of crude oil and 32 bbls of produced water subsequently recovered. Oxy reported the release to the NMOCD through email notification on January 24, 2023. The release was assigned Incident Number nAPP2302535216.

On February 22, 2023, Ensolum and Tex-Mex Rentals & Services (Tex-Mex) arrived on-Site to conduct excavation activities within the release area. Subsequent to excavation activities, Ensolum collected a total of eight composite floor soil samples from eight locations (FS-1 through FS-8), from a depth of 0.5 feet to 1 foot below ground surface (bgs), within the excavation area.

Based on laboratory analytical results, additional excavation at the Site was required.

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Mills 19 #001 CTB

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Subsequent to additional excavation activities, Ensolum arrived on-Site on March 10, 2023 and collected a total of five additional composite floor soil samples (FS-1 through FS-4, and FS-8), from a depth of 1 foot to 2 feet bgs, within the excavation area.

Based on laboratory analytical results, additional remediation at the Site is required.

Based on the location of a soil boring within 0.5 miles of the Site, the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* Table I: Closure Criteria for Soils Impacted by a Release (> 100 feet) values were utilized. The composite floor soil sample results are included as **Table 1** in **Attachment D**.

The Site Map indicating the overall area of the release, the composite floor soil sample locations are included as **Figure 3** in **Attachment A**. The Closure Criteria Map is included as **Figure 4** in **Attachment A**.

II. CLOSURE CRITERIA

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

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is not located within an unstable area.
- The Site is not located within an area of flood hazard.

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Mills 19 #001 CTB

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

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

III. SCOPE OF SERVICES

A. Health and Safety Plan

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

B. Excavation and Remediation Activities

Due to the spill area being in proximity to the tank battery, Micro-Blaze® will be applied to the existing excavation area in relation to composite floor soil samples FS-1 through FS-4, and FS-8. Once applied, the Micro-Blaze® will be given time to effectively breakdown hydrocarbons.

If needed, additional excavation will be conducted at the Site by a third-party contractor to remove impacted soils in the release area based on laboratory analytical data, olfactory and/or visual evidence of impairment. Based on current analytical data collected at the Site, composite floor soil sample locations FS-1 through FS-4, and FS-8 could potentially need additional excavation.

If needed, an estimated 12 cubic yards (cy) will be excavated from the release area. The excavated impacted soils will be placed on plastic on-Site and will be taken off-Site for proper disposal upon receipt of laboratory analytical results. The remediation will be completed within 90 days of approval from the NMOCD.

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Mills 19 #001 CTB

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C. Confirmation Composite Soil Sampling Program

Once excavation activities are complete, Ensolum will collect additional confirmation composite soil samples every 200 square-feet from the bottomhole of the release area based on the following criteria:

- Prior composite floor soil sample exceedance;
- Highest photoionization detector (PID) reading;
- Highest electrical conductivity reading; or
- Change in lithology.

D. Laboratory Analytical Program

The soil samples collected from the proposed confirmation composite samples will be analyzed for total petroleum hydrocarbons (TPH) gasoline range organics (GRO)/ diesel range organics (DRO)/ motor oil/lube oil range organics (MRO) utilizing Environmental Protection Agency (EPA) SW-846 Method 8015M, benzene, toluene, ethylbenzene and xylene (BTEX) utilizing EPA SW-846 Method 8021B, and chloride utilizing EPA Method SM4500 Cl B under the NMOCD Closure Criteria for Soils Impacted by a Release (>100 feet).

IV. REPORTING

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

V. DELIVERABLES

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

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

Sincerely,
Ensolum, LLC


Heather Holthaus
Senior Project Manager
hholthaus@ensolum.com


Beaux Jennings
Senior Project Manager
bjennings@ensolum.com

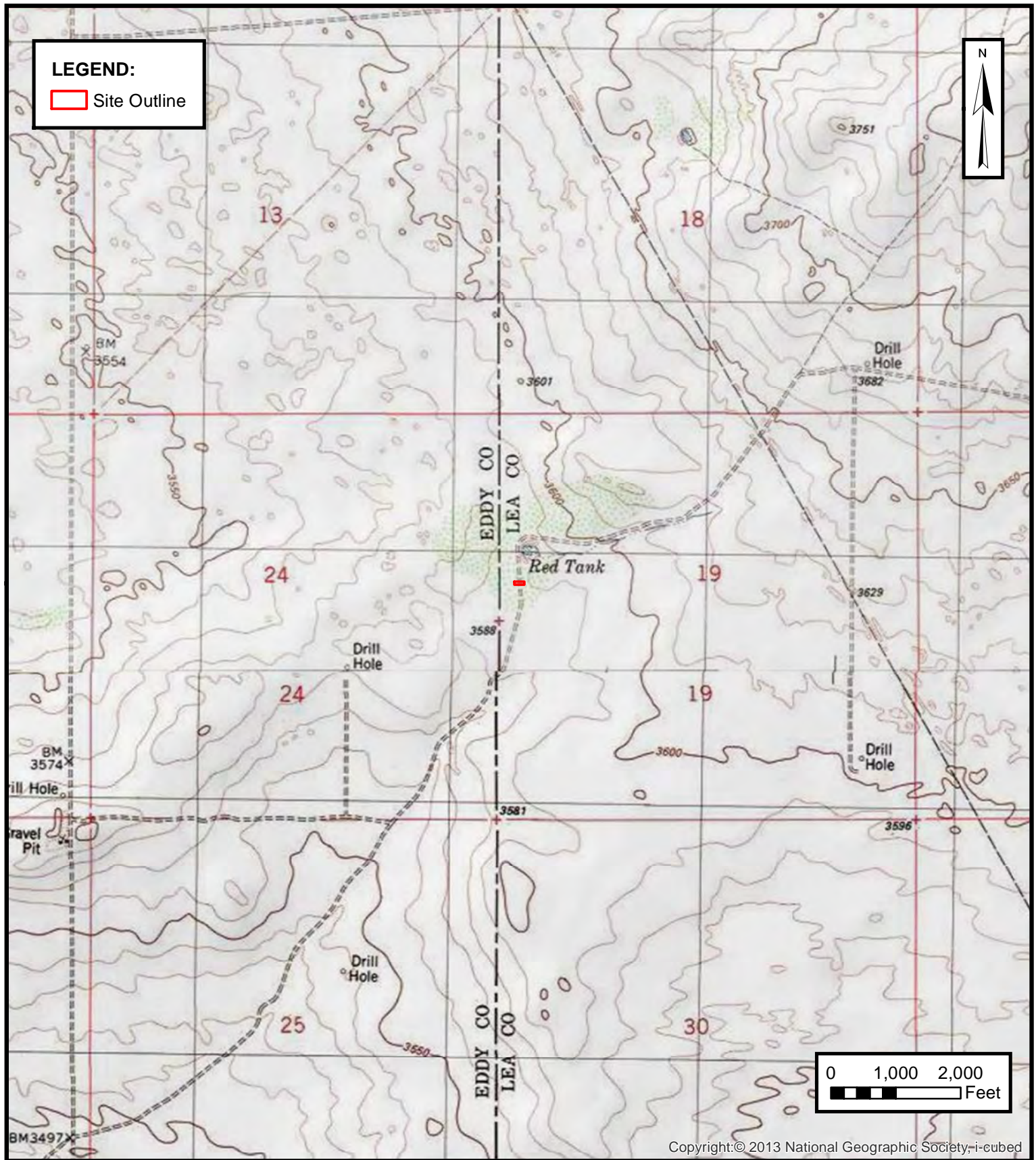
Attachments:

- Attachment A – Figures**
- Attachment B – Supporting Documentation**
- Attachment C – Photographic Documentation**
- Attachment D – Table 1 - Soil Sample Analytical Results**
- Attachment E – Laboratory Report & Chain-of-Custody Documentation**
- Attachment F – C-141**



ATTACHMENT A

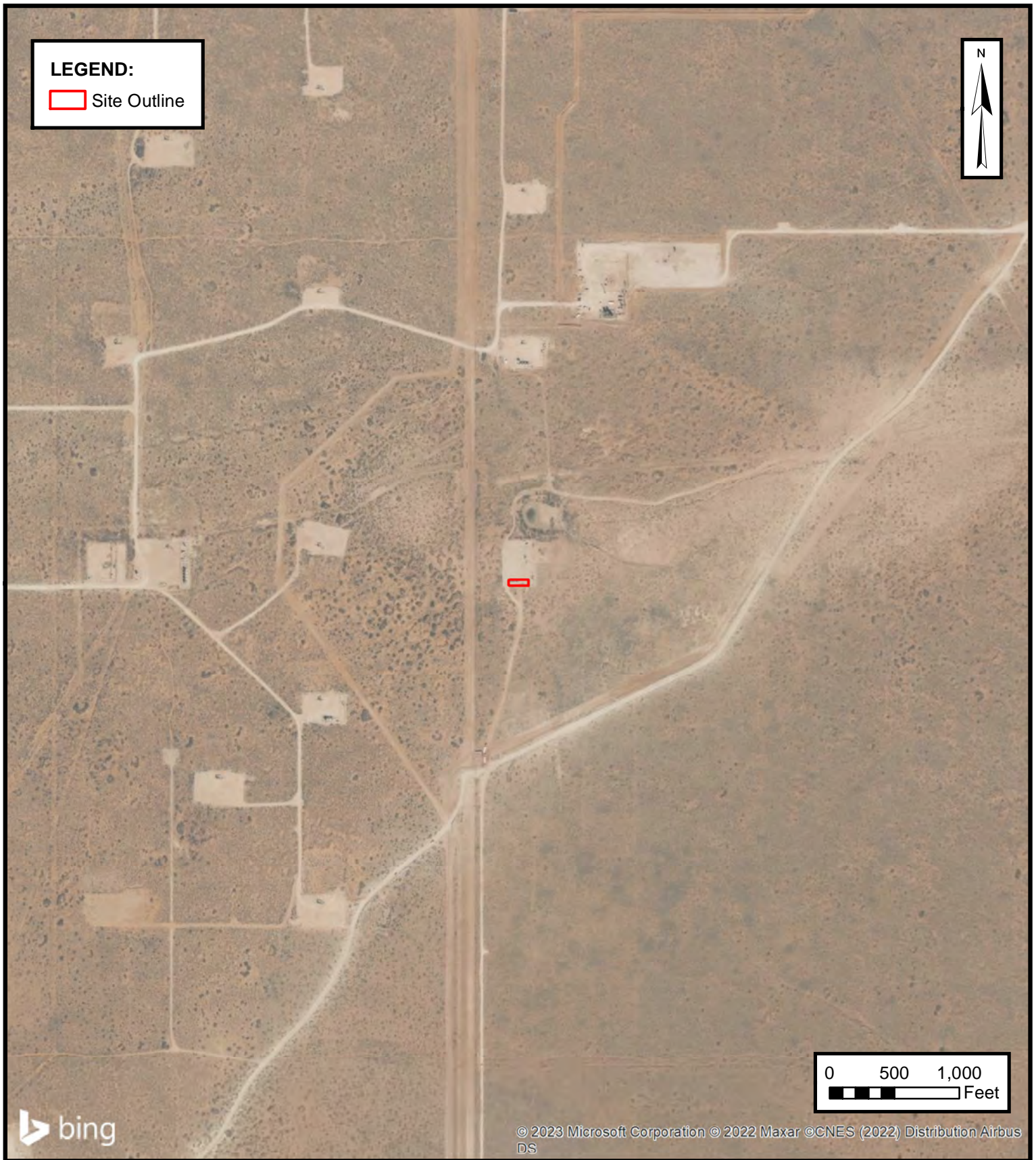
Figures

**TOPOGRAPHIC MAP**

OXY USA INC.
MILLS 19 1 CTB
Lea County, New Mexico
32.37825° N, 103.72201° W

PROJECT NUMBER: 03B1417072

FIGURE**1**



SITE VICINITY MAP

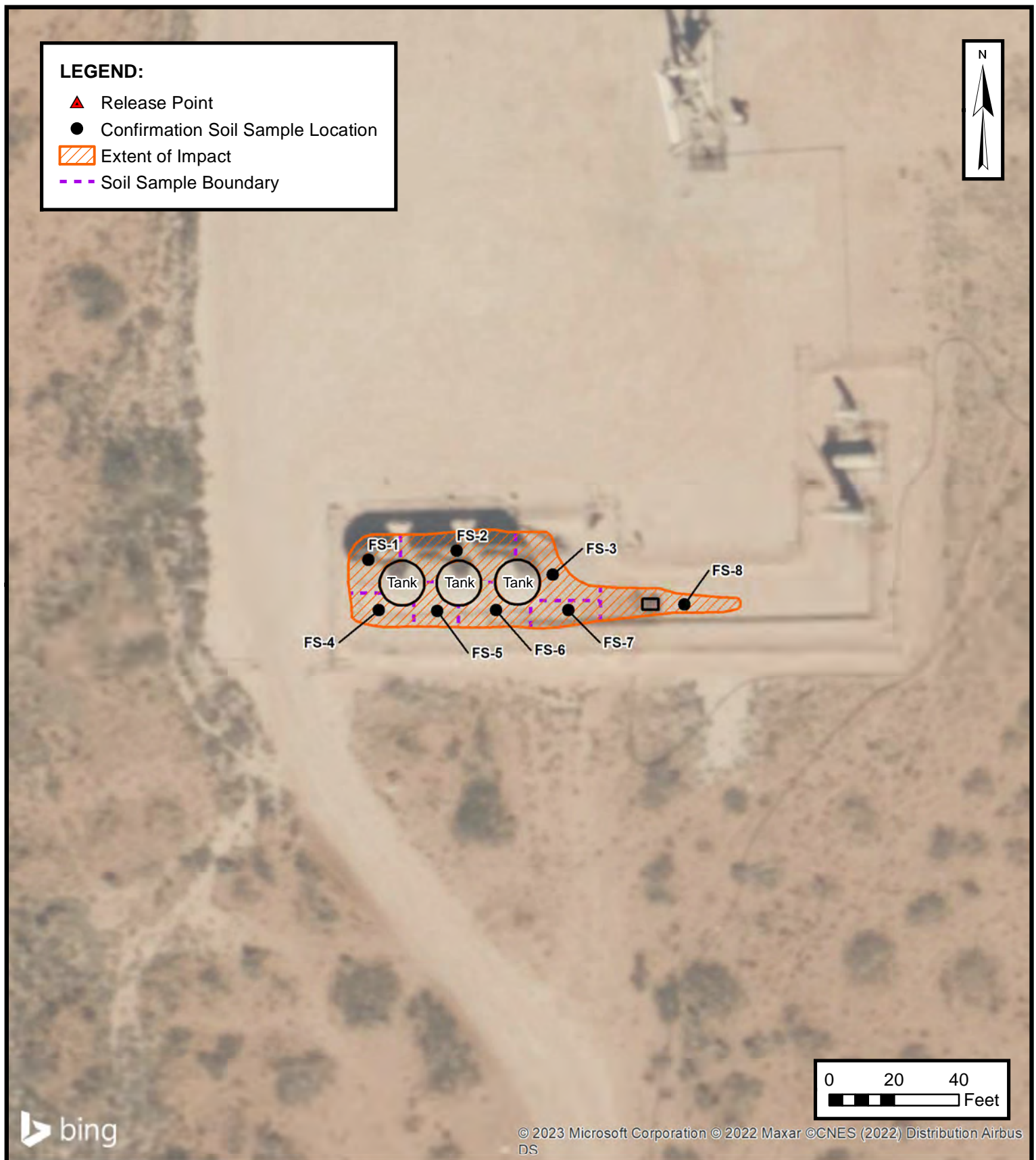
OXY USA INC.
MILLS 19 1 CTB
Lea County, New Mexico
32.37825° N, 103.72201° W

PROJECT NUMBER: 03B1417072

FIGURE

2

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



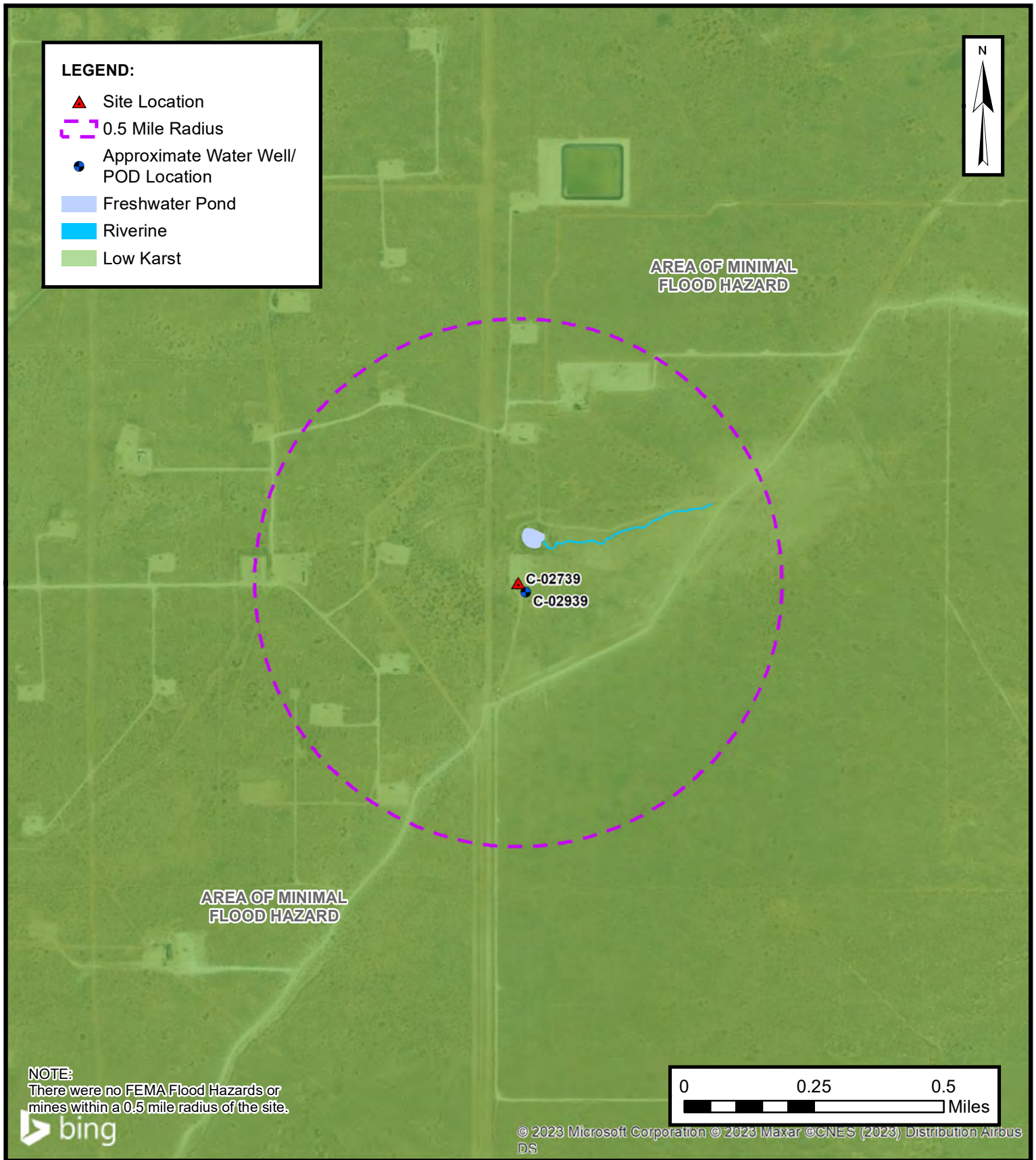
SITE MAP

OXY USA INC.
MILLS 19 1 CTB
Lea County, New Mexico
32.37825° N, 103.72201° W

PROJECT NUMBER: 03B1417072

FIGURE

3

**CLOSURE CRITERIA MAP**

OXY USA INC.
MILLS 19 1 CTB
Lea County, New Mexico
32.37825° N, 103.72201° W

PROJECT NUMBER: 03B1417072

FIGURE

4

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



ATTACHMENT B

Supporting Documentation

OSE POD Locations Map



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GIS WATERS PODs

Active

Pending

OSE District Boundary

Water Right Regulations

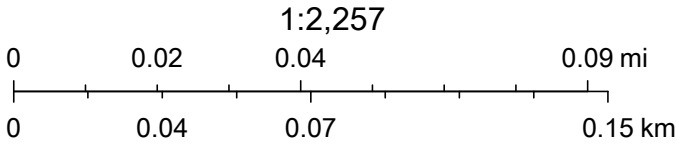
Closure Area

NHD Flowlines

Artificial Path

Stream River

SiteBoundaries



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

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

472398

Section 1. GENERAL INFORMATION

(A) Owner of well JC+Frances Mills Family Partnership Owner's Well No. _____
Street or Post Office Address Box 1358
City and State Loving, NM 88256

Well was drilled under Permit No. C-2939 and is located in the:

a. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 19 Township 22S Range 32E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348

Address 7317 Etcheverry Rd., Carlsbad, NM 88220

Drilling Began 2/9/03 Completed 2/13/03 Type tools Rotary Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is UK ft. Total depth of well 280 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
			Dry Hole	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received March 17, 2003

Quad _____ FWL _____ FSL ☒

File No. C-2939 Use _____ Location No. 22S.32E.19.331

T 11900

Section 6. LOG OF HOLE

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

OCD Well Locations



4/10/2023, 4:07:58 PM

OSE Water PODs Karst Occurrence Potential

- Active
- Pending

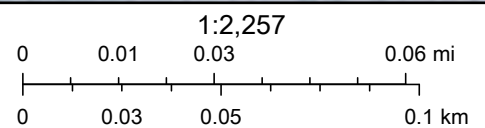
Wells - Large Scale

- Oil, Active

Low

PLSS Second Division

PLSS First Division



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

New Mexico Oil Conservation Division



Wetlands Map



April 10, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



103°43'38"W 32°22'57"N



Legend

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

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

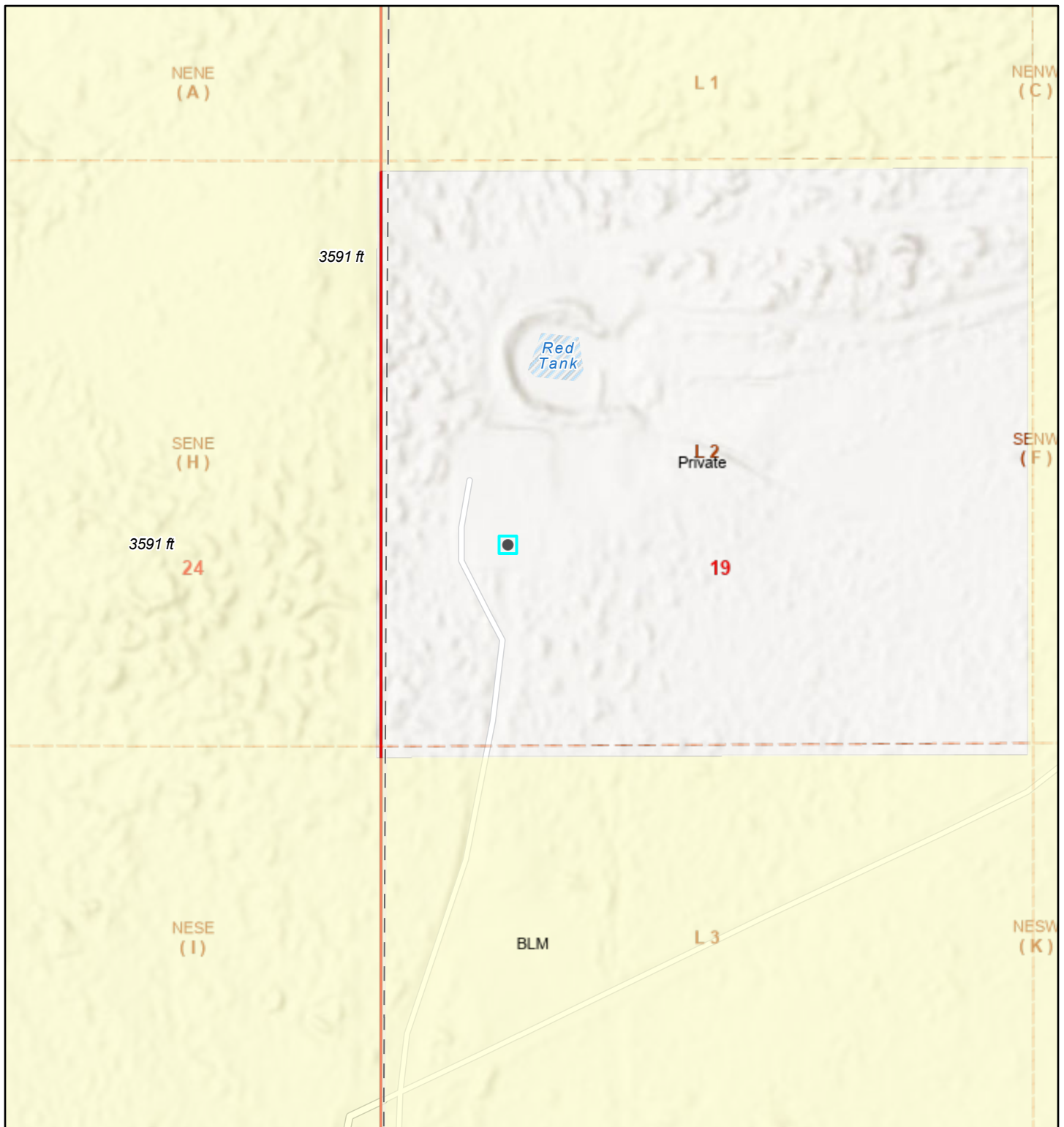
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/10/2023 at 5:01 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by 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.

Released to Imaging: 1/24/2024 3:34:34 PM

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

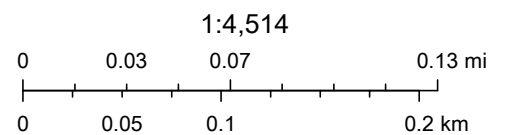
Active Mines in New Mexico



4/10/2023, 3:59:27 PM

Land Ownership  PLSS Second Division BLM  PLSS First Division

P



U.S. BLM, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Sources: Esri, Airbus DS, USGS, NGA, NASA,

EMNRD MMD GIS Coordinator



Micro-Blaze®

Emergency Liquid Spill Control

PRODUCT INFORMATION

EMERGENCY LIQUID SPILL CONTROL (ELSC)

**REMIEDIATES (LIST NOT EXHAUSTIVE)**

- Acetone
- Acrylonitrile
- AFFF Waste
- Anti-Freeze
- Aviation Fuels
- Benzene & Benzene Compounds
- Crude Oil
- Diesel Fuel
- Dimethylformamide
- Fats
- Gasoline
- Grease
- Glycols
- Hydrocarbon Waste
- Kerosene
- Methanol
- Methyl Tertiary Butyl Ether (MTBE)
- Motor Oil
- Odor
- Organic Chemical Waste
- Organic Waste
- Paint Sludge
- Pipeline Condensation
- Polyurethane Resin Waste
- Sludge
- Toluene

Micro-Blaze®

Emergency Liquid Spill Control

Micro-Blaze® Emergency Liquid Spill Control is a safe, non-toxic, microbial formulation used for the bioremediation of hydrocarbons and other organic compounds. It breaks down, degrades, and digests organic waste while also suppressing vapors and eliminating flammability. The proprietary combination of wetting agents, nutrients, and microbes makes it an ideal formulation for use on many pollutants found in spills and contaminated sites.

Our microbes are naturally occurring, not genetically engineered, and found in soils and waters all over the earth. These microbes have been carefully researched, tested, and chosen for their affinity to degrade hydrocarbons and other organic waste.

USES

- Clean up hydrocarbon spills/leaks
- Soil bioremediation
- Vapor suppression
- Equipment, tank, and pipeline cleaning

BENEFITS

- Safe and cost-effective method for in-situ bioremediation of contaminated soils and water
- Elimination of vapors and LELs, creating a safe working environment
- Residue and runoff can be safely sent to industrial and municipal WWTPs
- 10-year shelf life and easy to use concentrate make it convenient to maintain on hand for future emergencies or everyday usage
- Listed on EPA NCP List as a bioremediation agent for 30 years*

** This listing does not mean the EPA approves, recommends, licenses, certifies or authorizes the use of Micro-Blaze® Emergency Liquid Spill Control or any other product on an oil discharge. This listing only means that data has been submitted to EPA as required by subpart J of the NCP §300.915.*

Product Details**Appearance:**

Cream to tan, opaque liquid, perfumed

pH:

7.0 - 8.0

Shelf Life:

10 Years

Storage:

Avoid temperatures over 48°C for long periods of time. Avoid prolonged freezing.

CAUTION: KEEP OUT OF REACH OF CHILDREN.
Do not take internally. Avoid contact with eyes. Wash thoroughly after handling. Avoid breathing mist. Contains surfactants (soaps) which may irritate eyes or respiratory system. Use with adequate ventilation.

APPLICATION

Micro-Blaze® is a liquid concentrate and must be diluted before application.

DILUTION

Dilute with water between a 3% solution (3 parts Micro-Blaze®, 97 parts water) and a 10% solution (10 parts Micro-Blaze®, 90 parts water). Shake well before dilution and before application.

APPLICATION

Spray the diluted Micro-Blaze® directly onto the contamination with as much agitation as possible until the area is completely saturated. You can use any delivery system/sprayer, such as hand-held sprayers, fire extinguishers, power washers, CAFS systems, and water trucks. For soil remediation, tilling the soil after application will help in achieving optimal results, though it is not required where not feasible.

HOW MUCH MICRO-BLAZE® DO I NEED?

1 gallon of Micro-Blaze® concentrate, after diluted, will treat either of the following:

- 10 gallons of spilled contamination
- 500 – 700 square feet of contaminated surface
- 5 – 7 cubic yards of contaminated soil

Contact a Micro-Blaze® sales representative for any additional application questions:
technical@micro-blaze.com

PRODUCT SIZES & SPECS



1 Gallon Pail

SKU MBELSC-1
Dimensions 8"x8"x12"
Weight 9 lbs



5 Gallon Pail

SKU MBELSC-5
Dimensions 12"x12"x15"
Weight 47 lbs
36 pails /pallet



55 Gallon Drum

SKU MBELSC-55
Dimensions 24"x 24"x35"
Weight 500 lbs
4 drums/pallet



275 Gallon Tote

SKU MBELSC-275
Dimensions 40"x48"x45"
Weight 2,500 lbs



330 Gallon Tote

SKU MBELSC-330
Dimensions 40"x48"x54"
Weight 3,000 lbs

RELATED PRODUCTS:

CONCRETE STAIN REMOVER (CSR)



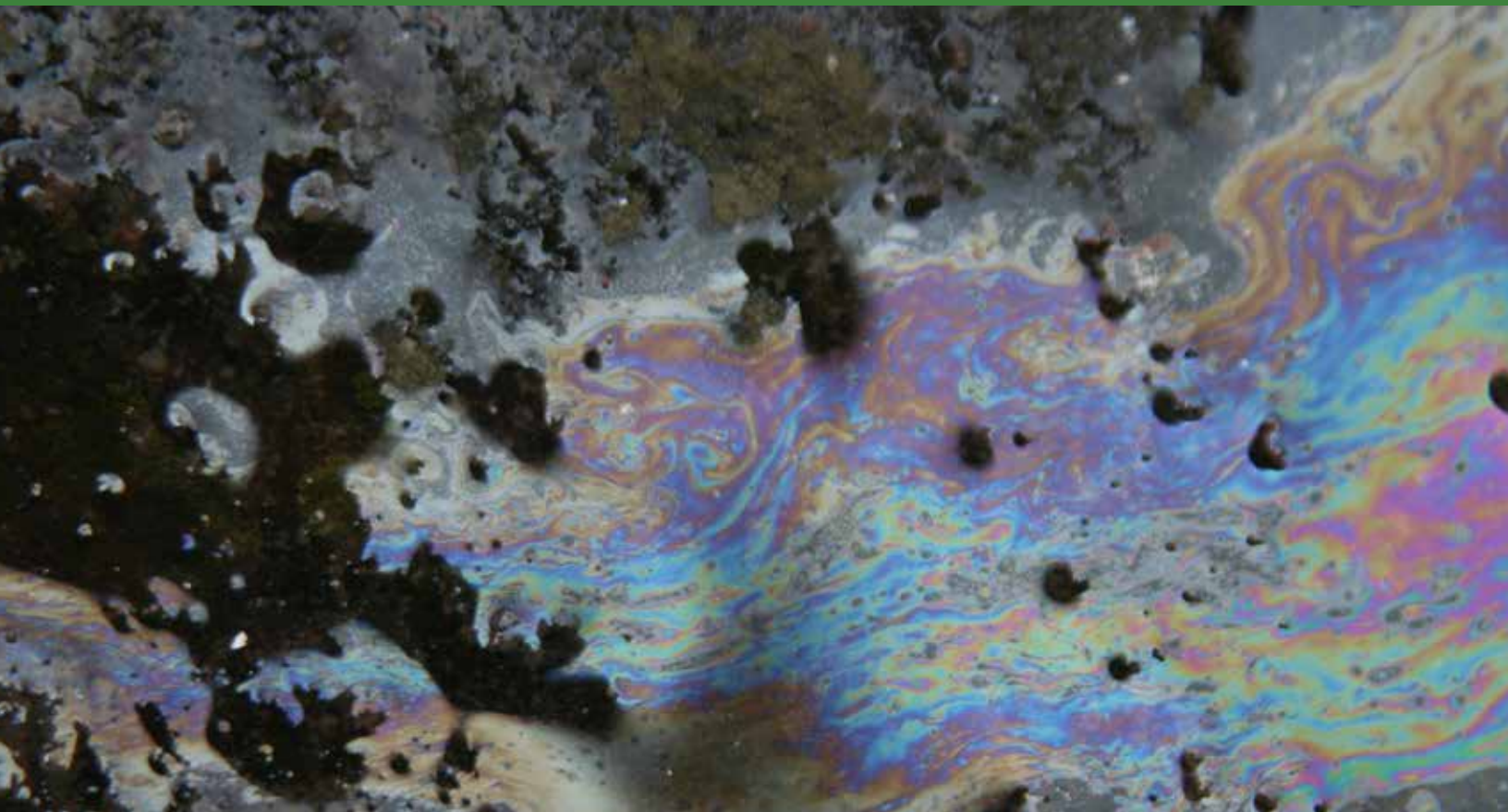
NON-FORMULATED



SCAN FOR MSDS
FOR ALL PRODUCTS

PARTNERING WITH NATURE

FOR A CLEANER TOMORROW



Verde Environmental, Inc.

9223 Eastex Freeway
Houston, TX 77093

Office: 713.691.6468
Toll Free: 800.626.6598

www.micro-blaze.com



Version 0522



ATTACHMENT C

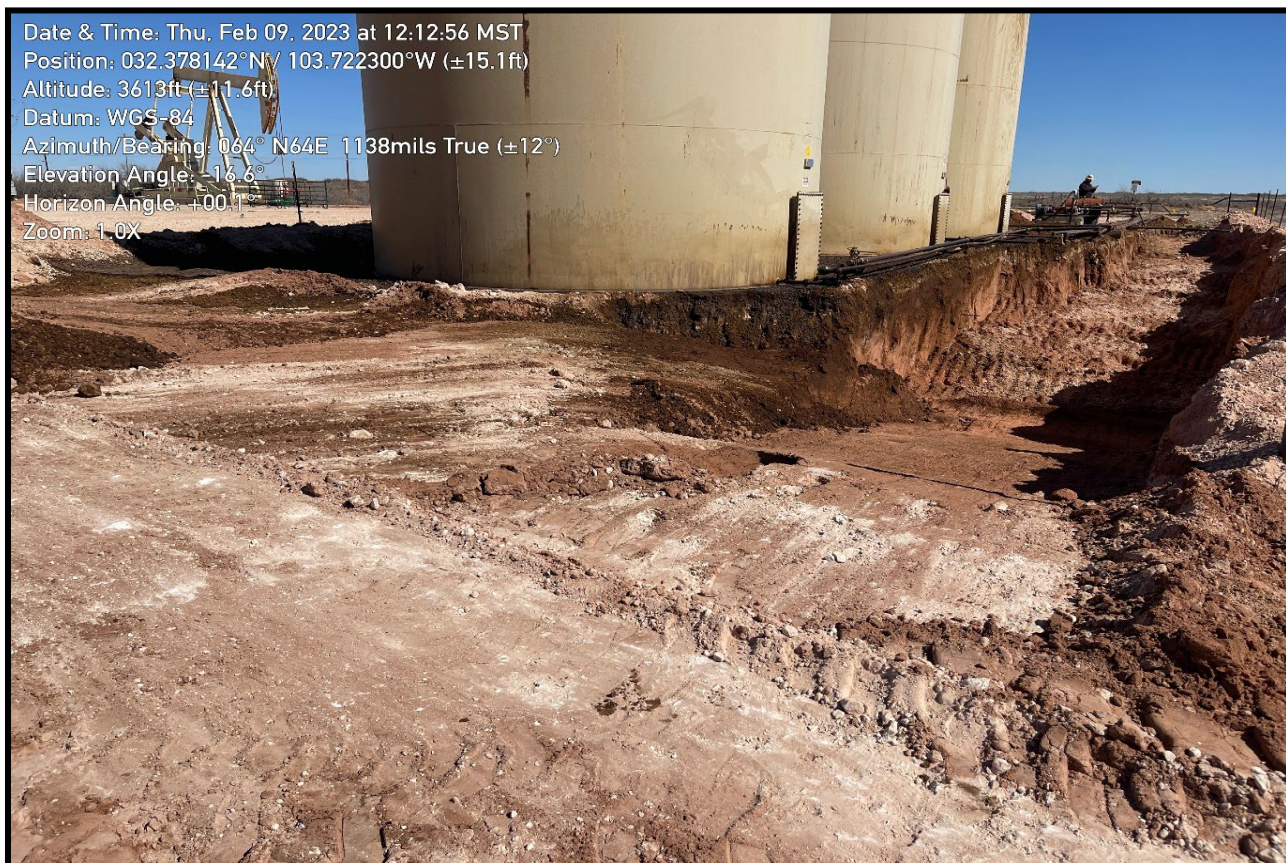
Photographic Documentation



View of impact area subsequent to release, facing southeast.



View of impact area subsequent to release, facing northeast.



View of impact area during excavation activities, facing northeast.



View of impact area during excavation activities, facing southeast.



ATTACHMENT D


Table 1 - Soil Sample Analytical Results

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Mills 19 1 CTB
Oxy USA, Inc.
Lea County, New Mexico
Ensolum Project No. 03B1417072

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)			10	NE	NE	NE	50	1,000		NE	2,500	20,000
Floor Sample Analytical Results												
FS-1	02/22/2023	1	6.83	45.2	22.3	88.3	163	33,220		4,250	37,470	576
	03/10/2023	2	NS					23,870		2,780	26,650	NS
FS-2	02/22/2023	1	4.05	45.3	33.3	111	194	25,800		3,080	28,880	800
	03/10/2023	2	NS					19,030		2,370	21,400	NS
FS-3	02/22/2023	1	4.02	35.0	24.5	89.0	152	30,620		4,050	34,670	960
	03/10/2023	2	NS					7,700		910	8,610	NS
FS-4	02/22/2023	1	<0.200	3.75	3.08	13.5	20.3	3,073		550	3,623	144
	03/10/2023	2	NS					3,827		593	4,420	NS
FS-5	02/22/2023	1	<0.050	<0.050	<0.050	<0.150	<0.300	62.7		13.7	76.4	160
FS-6	02/22/2023	1	<0.050	<0.050	<0.050	<0.150	<0.300	17.0		<10.0	17.0	160
FS-7	02/22/2023	1	<0.050	<0.050	<0.050	<0.150	<0.300	164		25.9	190	112
FS-8	02/22/2023	0.5	<0.050	0.251	0.549	2.62	3.42	2,173		332	2,505	96.0
	03/10/2023	2	NS					2,700		506	3,206	NS

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

 Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



ATTACHMENT E

Laboratory Report & Chain-of-Custody Documentation



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

February 27, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MILLS 19 1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/22/23 12:17.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/22/2023
 Reported: 02/27/2023
 Project Name: MILLS 19 1 CTB
 Project Number: 03B1417072
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 1 1' (H230831-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.83	0.500	02/23/2023	ND	2.07	104	2.00	9.26	
Toluene*	45.2	0.500	02/23/2023	ND	2.05	103	2.00	7.96	
Ethylbenzene*	22.3	0.500	02/23/2023	ND	2.04	102	2.00	8.33	
Total Xylenes*	88.3	1.50	02/23/2023	ND	6.20	103	6.00	9.34	
Total BTX	163	3.00	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	576	16.0	02/23/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4520	100	02/23/2023	ND	210	105	200	4.62		
DRO >C10-C28*	28700	100	02/23/2023	ND	198	99.1	200	5.89		
EXT DRO >C28-C36	4250	100	02/23/2023	ND						

Surrogate: 1-Chlorooctane 317 % 48.2-134

Surrogate: 1-Chlorooctadecane 608 % 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: 02/22/2023
 Reported: 02/27/2023
 Project Name: MILLS 19 1 CTB
 Project Number: 03B1417072
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 2 1' (H230831-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.05	0.500	02/23/2023	ND	2.07	104	2.00	9.26	
Toluene*	45.3	0.500	02/23/2023	ND	2.05	103	2.00	7.96	
Ethylbenzene*	33.3	0.500	02/23/2023	ND	2.04	102	2.00	8.33	
Total Xylenes*	111	1.50	02/23/2023	ND	6.20	103	6.00	9.34	
Total BTEX	194	3.00	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	02/23/2023	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

Surrogate: 1-Chlorooctane		305 %	48.2-134							
Surrogate: 1-Chlorooctadecane		459 %	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: 02/22/2023
 Reported: 02/27/2023
 Project Name: MILLS 19 1 CTB
 Project Number: 03B1417072
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 3 1' (H230831-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.02	0.500	02/23/2023	ND	2.07	104	2.00	9.26	
Toluene*	35.0	0.500	02/23/2023	ND	2.05	103	2.00	7.96	
Ethylbenzene*	24.5	0.500	02/23/2023	ND	2.04	102	2.00	8.33	
Total Xylenes*	89.0	1.50	02/23/2023	ND	6.20	103	6.00	9.34	
Total BTEX	152	3.00	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	02/23/2023	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3920	100	02/23/2023	ND	210	105	200	4.62	
DRO >C10-C28*	26700	100	02/23/2023	ND	198	99.1	200	5.89	
EXT DRO >C28-C36	4050	100	02/23/2023	ND					

Surrogate: 1-Chlorooctane 309 % 48.2-134

Surrogate: 1-Chlorooctadecane 582 % 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: 02/22/2023
 Reported: 02/27/2023
 Project Name: MILLS 19 1 CTB
 Project Number: 03B1417072
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 4 1' (H230831-04)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/23/2023	ND	2.14	107	2.00	9.48	
Toluene*	3.75	0.200	02/23/2023	ND	2.07	103	2.00	8.82	
Ethylbenzene*	3.08	0.200	02/23/2023	ND	1.96	97.9	2.00	8.35	
Total Xylenes*	13.5	0.600	02/23/2023	ND	5.97	99.4	6.00	7.67	
Total BTEX	20.3	1.20	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 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	144	16.0	02/23/2023	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*	333	50.0	02/23/2023	ND	210	105	200	4.62	
DRO >C10-C28*	2740	50.0	02/23/2023	ND	198	99.1	200	5.89	
EXT DRO >C28-C36	550	50.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 02/22/2023
 Reported: 02/27/2023
 Project Name: MILLS 19 1 CTB
 Project Number: 03B1417072
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 5 1' (H230831-05)

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	02/23/2023	ND	2.19	110	2.00	13.7		
Toluene*	<0.050	0.050	02/23/2023	ND	2.12	106	2.00	14.0		
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.03	102	2.00	14.2		
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.16	103	6.00	13.1		
Total BTEx	<0.300	0.300	02/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	160	16.0	02/23/2023	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	02/23/2023	ND	210	105	200	4.62	
DRO >C10-C28*	62.7	10.0	02/23/2023	ND	198	99.1	200	5.89	
EXT DRO >C28-C36	13.7	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 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: 02/22/2023
 Reported: 02/27/2023
 Project Name: MILLS 19 1 CTB
 Project Number: 03B1417072
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 6 1' (H230831-06)

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	02/23/2023	ND	2.19	110	2.00	13.7	
Toluene*	<0.050	0.050	02/23/2023	ND	2.12	106	2.00	14.0	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.03	102	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.16	103	6.00	13.1	
Total BTX	<0.300	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	02/23/2023	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	02/23/2023	ND	210	105	200	4.62	
DRO >C10-C28*	17.0	10.0	02/23/2023	ND	198	99.1	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 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: 02/22/2023
 Reported: 02/27/2023
 Project Name: MILLS 19 1 CTB
 Project Number: 03B1417072
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 7 1' (H230831-07)

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	02/23/2023	ND	2.19	110	2.00	13.7	
Toluene*	<0.050	0.050	02/23/2023	ND	2.12	106	2.00	14.0	
Ethylbenzene*	<0.050	0.050	02/23/2023	ND	2.03	102	2.00	14.2	
Total Xylenes*	<0.150	0.150	02/23/2023	ND	6.16	103	6.00	13.1	
Total BTEX	<0.300	0.300	02/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/23/2023	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	02/23/2023	ND	210	105	200	4.62	
DRO >C10-C28*	164	10.0	02/23/2023	ND	198	99.1	200	5.89	
EXT DRO >C28-C36	25.9	10.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 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: 02/22/2023
 Reported: 02/27/2023
 Project Name: MILLS 19 1 CTB
 Project Number: 03B1417072
 Project Location: LEA COUNTY, NM

Sampling Date: 02/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 8 0.5' (H230831-08)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2023	ND	2.19	110	2.00	13.7	
Toluene*	0.251	0.050	02/23/2023	ND	2.12	106	2.00	14.0	
Ethylbenzene*	0.549	0.050	02/23/2023	ND	2.03	102	2.00	14.2	
Total Xylenes*	2.62	0.150	02/23/2023	ND	6.16	103	6.00	13.1	
Total BTEX	3.42	0.300	02/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 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	96.0	16.0	02/23/2023	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*	313	50.0	02/23/2023	ND	210	105	200	4.62	
DRO >C10-C28*	1860	50.0	02/23/2023	ND	198	99.1	200	5.89	
EXT DRO >C28-C36	332	50.0	02/23/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Company Name: Ensolum, LLC							P.O. #:		BILL TO		ANALYSIS REQUEST															
Project Manager: Beaux Jennings																										
Address: 601 N Mariemfield Street, Suite 400																										
City: Midland							State: TX		Zip: 79701																	
Phone #: 210-219-8858							Fax #:		Address:																	
Project #: 03B14707A							Project Owner:		City:																	
Project Name: Mills 19 1 CTB							State:		Zip:																	
Project Location: Lea County, NM							Phone #: 575-390-2828		Fax #:																	
Sample Name: Kelly Lawrence							MATRIX		PRESERV.		SAMPLING															
<small>FOR LAB USE ONLY</small>																										
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chlorides SM4500 Cl-B								
H330831	+S-1	1'	C	1			X							2/22/23	1005	X	X	X								
	-S-2	1'	C	1			X							2/22/23	1010	X	X	X								
	-S-3	1'	C	1			X							2/22/23	1015	X	X	X								
	-S-4	1'	C	1			X							2/22/23	1020	X	X	X								
	-S-5	1'	C	1			X							2/22/23	1025	X	X	X								
	-S-6	1'	C	1			X							2/22/23	1030	X	X	X								
	-S-7	1'	C	1			X							2/22/23	1035	X	X	X								
	-S-8	0.5'	C	1			X							2/22/23	1040	X	X	X								
														NFS	2/22/2023	HL										

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

Relinquished By: [Signature]		Date: 2/22/23	Received By: [Signature]
Relinquished By: [Signature]		Date: 2/22/23	Received By: [Signature]
Time: 12:17		Time:	
Date:		Date:	
Time:		Time:	

Delivered By: (Circle One) Sampler - UPS Bus Other:	Observed Temp. °C 54.1	Corrected Temp. °C 4.8	Sample Condition <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]	Turnaround Time: Thermometer ID #113 C Correction Factor -0.5°C	Standard Rush <input checked="" type="checkbox"/>	Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Sample Condition Observed Temp. °C Corrected Temp. °C
---	----------------------------------	----------------------------------	---	---	--	---	---	--

REMARKS: All Results are emailed. Please provide Email address: B.jennings@ensolum.com

Verbal Result: ☐ Yes ☐ No **Add Phone #:**

Environment Test
TestAmerica

1000082

Page 11 of 11

Custody Seal

2/22/23

DATE _____

SIGNATURE



Environment Testing
TestAmerica



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

March 15, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MILLS 19 1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/10/23 13:42.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2023	Sampling Date:	03/10/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

Sample ID: FS 1 2' (H231116-01)

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6670	50.0	03/13/2023	ND	207	103	200	2.57	
DRO >C10-C28*	17200	50.0	03/13/2023	ND	201	100	200	0.415	
EXT DRO >C28-C36	2780	50.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane 288 % 48.2-134

Surrogate: 1-Chlorooctadecane 318 % 49.1-148

Sample ID: FS 2 2' (H231116-02)

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4730	50.0	03/13/2023	ND	207	103	200	2.57	
DRO >C10-C28*	14300	50.0	03/13/2023	ND	201	100	200	0.415	
EXT DRO >C28-C36	2370	50.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane 246 % 48.2-134

Surrogate: 1-Chlorooctadecane 272 % 49.1-148

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.

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:	03/10/2023	Sampling Date:	03/10/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

Sample ID: FS 3 2' (H231116-03)

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1970	50.0	03/13/2023	ND	207	103	200	2.57	
DRO >C10-C28*	5730	50.0	03/13/2023	ND	201	100	200	0.415	
EXT DRO >C28-C36	910	50.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane 156 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 49.1-148

Sample ID: FS 4 2' (H231116-04)

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	467	10.0	03/13/2023	ND	207	103	200	2.57	
DRO >C10-C28*	3360	10.0	03/13/2023	ND	201	100	200	0.415	
EXT DRO >C28-C36	593	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane 151 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

Cardinal Laboratories

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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:	03/10/2023	Sampling Date:	03/10/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	MILLS 19 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417072	Sample Received By:	Tamara Oldaker
Project Location:	32.37825, -103.72201 LEA CO, NM		

Sample ID: FS 8 2' (H231116-05)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	220	10.0	03/13/2023	ND	207	103	200	2.57	
DRO >C10-C28*	2480	10.0	03/13/2023	ND	201	100	200	0.415	
EXT DRO >C28-C36	506	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane 125 % 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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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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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

[illegible]



ATTACHMENT F

C-141 Documentation

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	nAPP2302535216
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Wade Dittrich	Contact Telephone: 575-390-2828
Contact email: wade_dittrich@oxy.com	Incident # nAPP2302535216
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.37825

Longitude -103.72201

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mills 19 #001 CTB	Site Type: Central Tank Battery
Date Release Discovered: 01/23/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
F	19	22S	32E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Mills Family Partnership LTD)

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): 51	Volume Recovered (bbls): 48
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 34	Volume Recovered (bbls): 32
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Transfer pump failed to kick on.

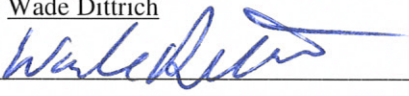
State of New Mexico
Oil Conservation Division

Incident ID	nAPP2302535216
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release is greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Wade Dittrich of Oxy via email to OCD.enviro@emnrd.nm.gov on 01/24/2023 at 1614.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Wade Dittrich</u> Signature: <u></u> email: <u>wade_dittrich@oxy.com</u>	Title: <u>Environmental Specialist</u> Date: <u>4-13-23</u> Telephone: <u>575-390-2828</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	nAPP2302535216
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>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.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2302535216
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: Wade Dittrich

Title: Environmental Specialist

Signature: _____

Date: _____

email: wade_dittrich@oxy.com

Telephone: 575-390-2828

OCD Only

Received by: _____

Jocelyn Harimon

Date: _____

04/14/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2302535216
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Wade Dittrich

Title: Environmental Specialist

Signature: 

Date: 4-13-23

email: wade_dittrich@oxy.com

Telephone: 575-390-2828

OCD Only

Received by: Jocelyn Harimon Date: 04/14/2023

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Michael Buchanan

Date: 01/24/2024

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 207810

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 207810
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The Remediation Plan is Conditionally Approved. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Confirmation samples are required to be submitted within sixty (60) days of microbial product application.	1/24/2024