



April 4, 2025

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Remediation Work Plan
Cypress 33-1 CTB #1
API# 30-015-36321
Incident Number: nAPP2501658295
32.255435°N, 103.9823067°W
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA, Inc. (Oxy), has prepared the following *Remediation Work Plan (Work Plan)* to document the site assessment activities completed to date and propose a work plan to address impacted soil identified at the Cypress 33-1 CTB #1 (Site). The purpose of the site assessment activities was to delineate the vertical and lateral extent of impacted soil resulting from a release of produced water at the Site. The following Work Plan proposes to excavate impacted soil within the top 2 to 6 feet below ground surface (bgs) of the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 33, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.255435°N, 103.9823067°W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 7, 2025, a water transfer pump blew packing resulting in the release of approximately 6.5 barrels (bbls) of produced water onto the pad surface, with approximately 3 bbls of produced water subsequently recovered utilizing a vacuum truck. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on January 16, 2025 and the release was assigned Incident Number nAPP2501658295.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on NMOCD Portal of the Form C-141, Site Assessment/Characterization submitted on January 17, 2025. Potential site receptors are identified on **Figure 1 in Appendix A**.

Depth to groundwater at the Site is greater than 100 feet bgs based on the nearest groundwater well data. On September 30, 2020, an New Mexico Office of State Engineer (OSE) permitted well (C-04481-POD1) was advanced to a depth of 135 feet bgs. No groundwater was encountered. On September 30, 2020, an OSE permitted well (C-04481-POD2) was advanced to a depth of 120 feet bgs. No groundwater was encountered. Both wells are depicted on **Figure 1 in Appendix A**. The Well Records are included in **Appendix B**.

The closest continuously flowing or significant watercourse to the Site is a National Hydrography (NHD) fifth-order tributary located approximately 380 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (medium potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Between November February 13, 2025 and March 10, 2025, Ensolum personnel conducted multiple Site visits to evaluate the release extent based on information provided on the C-141 and visual observations. Ensolum personnel collected nine lateral delineation soil sample at nine locations (DS01 through DS09) outside the release extent from a depth 0.25 feet bgs, 13 pothole soil samples (PH01 through PH06) at six locations from within the release extent, ranging in depth from 1 foot to seven feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID), and chloride using Hach® chloride QuanTab® test strips. The delineation soil samples and pothole soil samples were submitted for laboratory analysis of BTEX, TPH, and chloride. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 2 (Appendix A)**. Photographic documentation was completed during the Site visit and a Photographic Log is included in **Appendix C**.

FIELD SCREENING RESULTS

Laboratory analytical results for the lateral delineation soil samples (DS01 through DS09) indicated that BTEX, TPH, and chloride concentrations were below the Closure Criteria.

The terminal depth sample from each delineation pothole (PH01 through PH06) indicated concentrations for all COCs were compliant with the Closure Criteria and successfully defined the vertical extent of impacted soil before encountering refusal.

Once excavation activities are completed based off the data from the pothole samples, official excavation composite floor and sidewall soil samples will be collected. Samples will be placed in pre-cleaned glass jars labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The samples will be transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of BTEX, following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor range organics (MRO) following EPA Method 8015M/D; and chloride following Standard Method SM-4500 Cl-B.

Oxy USA, Inc.
Remediation Work Plan
Cypress 33-1 CTB #1

April 4, 2025

Page 3

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soils containing elevated VOCs, TPH and/or chloride concentrations exist across an approximate 5,700 square foot area and extends to a maximum depth of approximately six feet bgs. Oxy proposes to complete the following remediation activities:

- Excavation of impacted soil to depths of two feet to six feet bgs based on the pothole delineation field screening soil sample results. Following removal of impacted soil, Ensolum personnel will collect 5-point confirmation soil samples representing every 400 square feet of the excavation floor and every 200 square feet of the sidewalls. Soil samples will be handled as described above and submitted for laboratory analysis of BTEX, TPH, and chloride.
- An estimated 680 cubic yards of impacted soil will be excavated. The excavated soil will be transferred to a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions

Oxy will proceed with the excavation and soil sampling activities and will submit a Closure Report within 90 days of the date of approval of this Work Plan by the NMOCD. If you have any questions or comments, please contact Ms. Georgiana McSwane at (254) 459-2338 or gmcswane@ensolum.com.

Sincerely,
Ensolum, LLC



Georgiana McSwane
Project Manager



Beaux Jennings
Associate Principal

cc: Wade Dittrich, Oxy USA, Inc.
New Mexico Bureau of Land Management

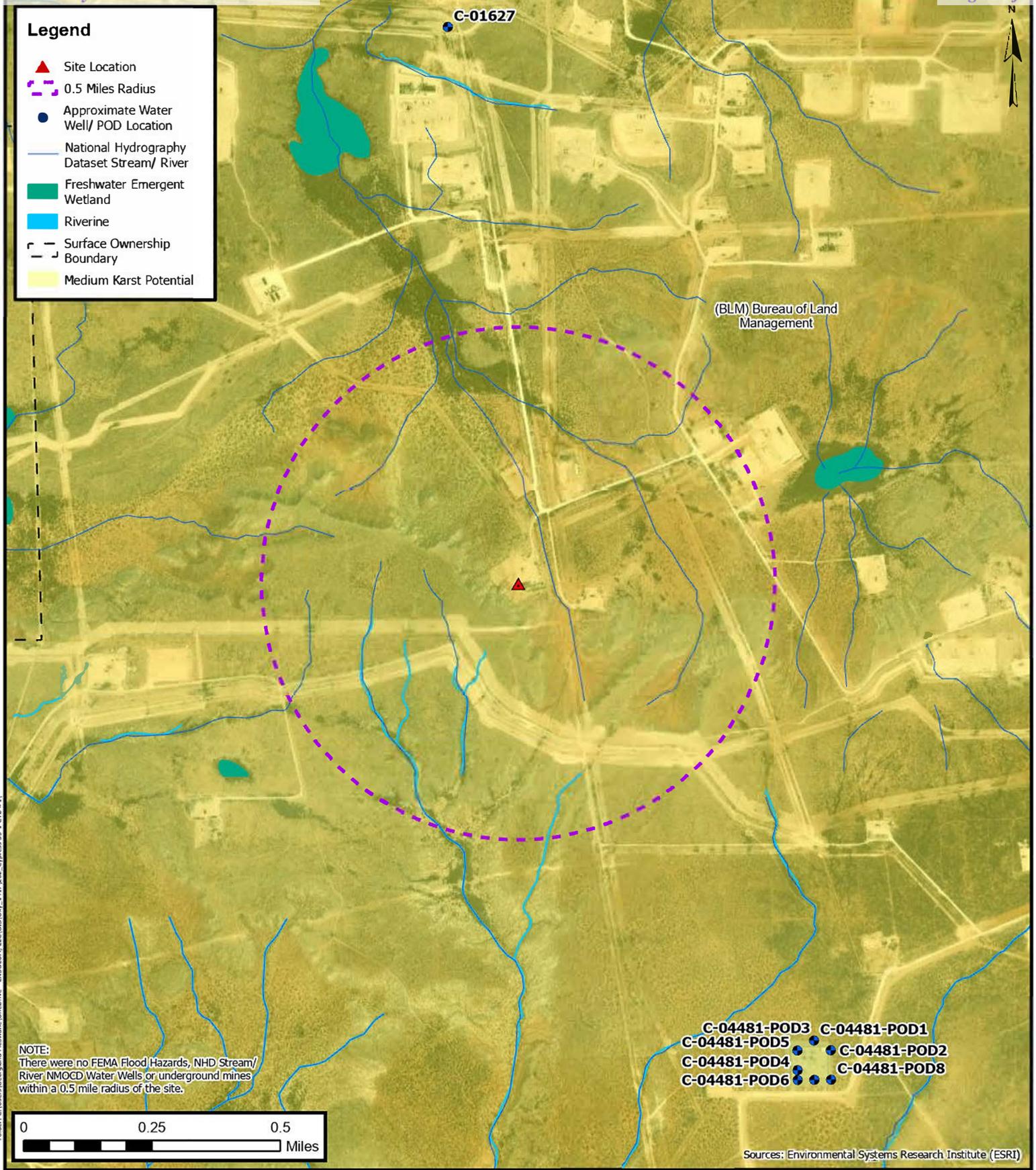
Appendices:

- Appendix A Figures
- Appendix B Supporting Documentation
- Appendix C Photographic Log
- Appendix D Table
- Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation



APPENDIX A

Figures



Folder: C:\Users\Georgiana McSwain\OneDrive - ENSOLUM, LLC\GIS\Oxy - 1417262_Cypress 33-1 CTB #1



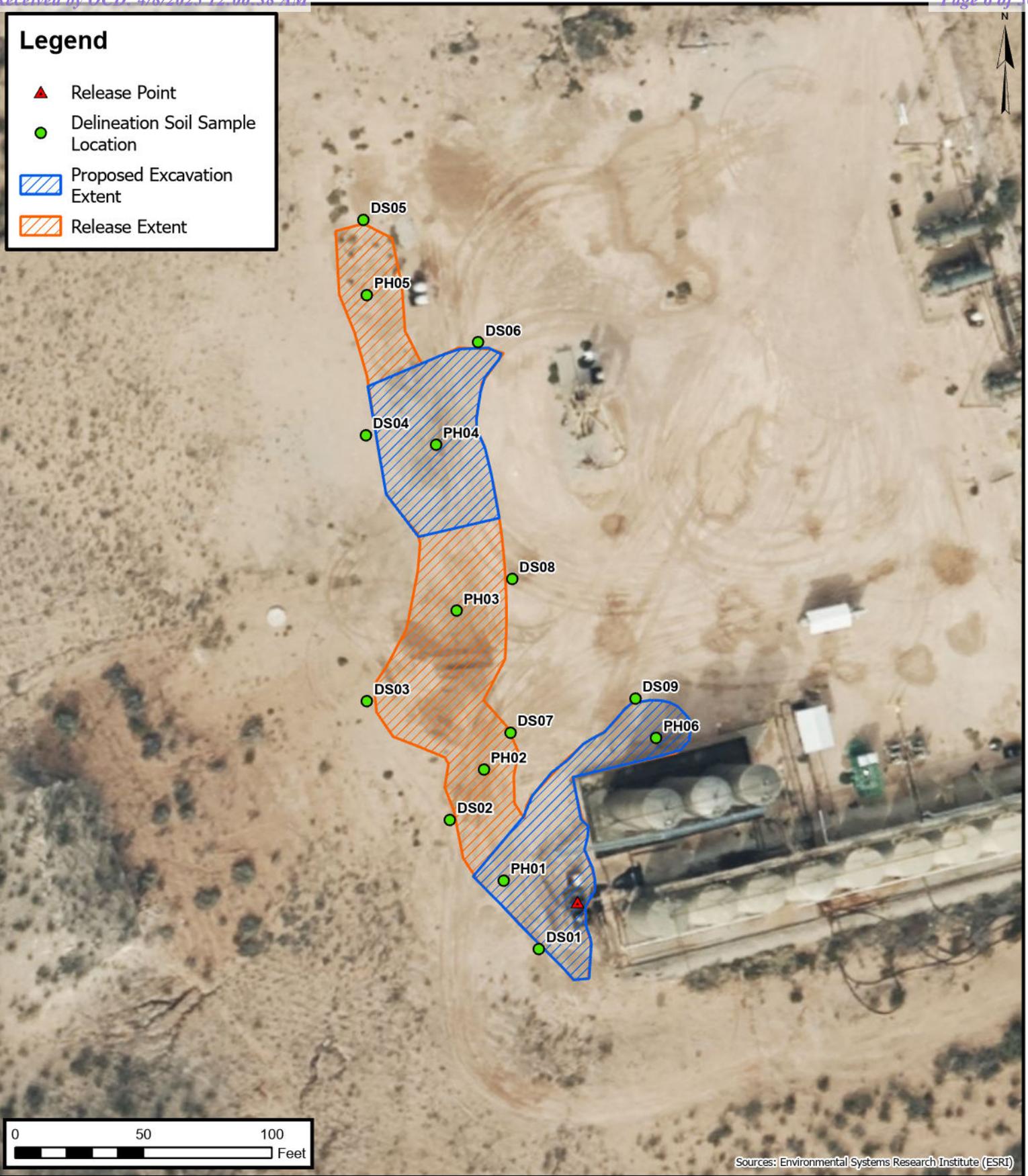
Closure Criteria Map
 Oxy USA Inc.
 Cypress 33-1 CTB #1
 32.255435° N, 103.9823067° W
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417262

FIGURE
1

Legend

-  Release Point
-  Delineation Soil Sample Location
-  Proposed Excavation Extent
-  Release Extent



Folder: C:\Users\Georgiana McSwane\OneDrive - ENSOLUM, LLC\GIS\Oxy - 1417262_Cypress 33-1 CTB #1



Sources: Environmental Systems Research Institute (ESRI)



ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Map

Oxy USA Inc.
Cypress 33-1 CTB #1
32.255435° N, 103.9823067° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417262

FIGURE

2



APPENDIX B

Supporting Documentation



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO.		OSE FILE NO(S). C 04481			
	WELL OWNER NAME(S) XCEL Energy				PHONE (OPTIONAL) 866-457-6291			
	WELL OWNER MAILING ADDRESS 7801 I-40 East				CITY Alamogordo	STATE TX	ZIP 79118	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 14	SECONDS 30	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE 103	58	19	* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Malaga Bend Substation 363-2 Gaviken Rd Malaga, NM 88263								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1755		NAME OF LICENSED DRILLER John D. Norris		NAME OF WELL DRILLING COMPANY Hungry Horse, LLC			
	DRILLING STARTED 10CT20	DRILLING ENDED 10CT20	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT) 135'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD		ADDITIVES - SPECIFY:					
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
			NO CASING					
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	1	20	6"	Bentonite Chips	418.9cf	TOP		
20	135	6	Coke Breeze	25 bags cf	TOP			

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 04/30/19)			
FILE NO.	C-4481	POD NO.	1	TRN NO.	678916		
LOCATION	341	T24S	R29E	Sec 3	WELL TAG ID NO.	NA	PAGE 1 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NEW 7/2019

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-2		WELL TAG ID NO.		OSE FILE NO(S). C-04481			
	WELL OWNER NAME(S) XCEL Energy				PHONE (OPTIONAL) 866-457-6291			
	WELL OWNER MAILING ADDRESS 7801 I-40 East				CITY Alamogordo	STATE TX	ZIP 79118	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 14	SECONDS 32	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	58	19	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Malaga Bend Substation 363-2 Gavilan Road Malaga, New Mexico								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1755	NAME OF LICENSED DRILLER John D. Norris			NAME OF WELL DRILLING COMPANY Hungry Horse, LLC			
	DRILLING STARTED 30 Sept 20	DRILLING ENDED 30 Sept 20	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT) 120'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
			NO CASING					
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	1'	20'	6"	Bentonite chips	17.55 cf	TOP		
	20'	120'	6"	Metallurgical Coke Breake	26 cf	TOP		

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 04/30/19)			
FILE NO.	C-4481	POD NO.	2	TRN NO.	678916		
LOCATION	341	T24S R29E Sec 3	WELL TAG ID NO.	NA	PAGE 1 OF 2		



APPENDIX C

Photographic Log



Photographic Log
Oxy USA Inc.
Cypress 33-1 CTB #1
03B1417262



Photograph: 5 Date: 2/13/2025
Description: Release Extent and Staining
View: Northwest

Photograph: 6 Date: 2/13/2025
Description: Release Extent and Staining
View: North



Photograph: 7 Date: 3/10/2025
Description: Site Delimitation
View: North

Photograph: 8 Date: 3/10/2025
Description: Site Delimitation
View: East



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Cypress 33-1 CTB #1
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417262

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 C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (<50' bgs)			10	NE	NE	NE	50	NE	NE	NE	100	600
Lateral Delineation Soil Sample Analytical Results												
DS01	02/13/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
DS02	02/13/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
DS03	02/13/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS04	02/13/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
DS05	03/21/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
DS06	02/13/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
DS07	02/13/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
DS08	03/11/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
DS09	03/11/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
Vertical Delineation Soil Sample Analytical Results												
PH01	03/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,000
	03/10/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
PH02	03/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
	03/10/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
PH03	03/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
	03/10/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
PH04	03/10/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,310
	03/10/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
PH05	03/10/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
	03/10/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
PH06	03/11/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	880
	03/11/2025	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560
	03/11/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304

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

bgs: below ground surface
 mg/kg: milligrams per kilogram
 NE: Not Established
 mg/kg: milligrams per kilogram
 BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
 GRO: Gasoline Range Organics
 DRO: Diesel Range Organics
 MRO: Motor Oil/Lube Oil Range Organics
 TPH: Total Petroleum Hydrocarbons



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

February 19, 2025

GEORGIANA MCSWANE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CYPRESS S3-1 CTB #1

Enclosed are the results of analyses for samples received by the laboratory on 02/13/25 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	02/13/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	CYPRESS S3-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: DS01 0.5 (H250893-01)

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	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 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
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	02/13/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	CYPRESS S3-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: DS02 0.5 (H250893-02)

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	02/14/2025	ND	2.04	102	2.00	2.97	
Toluene*	<0.050	0.050	02/14/2025	ND	2.23	112	2.00	8.30	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.40	120	2.00	11.7	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	7.40	123	6.00	11.0	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	02/13/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	CYPRESS S3-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: DS03 0.5 (H250893-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	1.97	98.3	2.00	0.469	
Toluene*	<0.050	0.050	02/14/2025	ND	2.37	118	2.00	12.5	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.66	133	2.00	18.0	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	8.08	135	6.00	19.3	
Total BTEX	<0.300	0.300	02/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	213	107	200	0.269	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	202	101	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	02/13/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	CYPRESS S3-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: DS04 0.5 (H250893-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	1.97	98.3	2.00	0.469	
Toluene*	<0.050	0.050	02/14/2025	ND	2.37	118	2.00	12.5	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.66	133	2.00	18.0	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	8.08	135	6.00	19.3	
Total BTEX	<0.300	0.300	02/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	213	107	200	0.269	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	202	101	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 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
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	02/13/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	CYPRESS S3-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: DS06 0.5 (H250893-05)

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	02/14/2025	ND	1.97	98.3	2.00	0.469	
Toluene*	<0.050	0.050	02/14/2025	ND	2.37	118	2.00	12.5	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.66	133	2.00	18.0	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	8.08	135	6.00	19.3	
Total BTEX	<0.300	0.300	02/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	213	107	200	0.269	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	202	101	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	02/13/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	CYPRESS S3-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: DS07 0.5 (H250893-06)

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	02/14/2025	ND	1.97	98.3	2.00	0.469		
Toluene*	<0.050	0.050	02/14/2025	ND	2.37	118	2.00	12.5		
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.66	133	2.00	18.0		
Total Xylenes*	<0.150	0.150	02/14/2025	ND	8.08	135	6.00	19.3		
Total BTEX	<0.300	0.300	02/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/14/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	213	107	200	0.269		
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	202	101	200	1.11		
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND						

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 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

Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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.

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

BILL TO

ANALYSIS REQUEST

Project Manager: Beeux Jennings
 Address: 601 N. Marrenfield St. STE 400
 City: Midland State: TX Zip: 79701

P.O. #:
 Company: Oxy USA, Inc.
 Attn: Wade Dittich

Phone #: 210-219-8858 254-453-3333 Fax #:
 Project #: 0381417262 Project Owner:
 Project Name: Cypress SS-1 CTB #1

Address:
 City:
 State: Zip:
 Phone #: 575-390-2828
 Fax #:

Project Location:
 Project Name: Cypress SS-1 CTB #1

City:
 State: Zip:
 Phone #: 575-390-2828
 Fax #:

Sampler Name: Kara Swinda, Nicholas Christofkas

Phone #: 575-390-2828
 Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS							
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:				ICE / COOL	OTHER:					
H250893	D501	0.5	G	1								2-13-25	952	X	BTEX 8021						
	D502	1	G	1								2-13-25	953	X	TPH 8015						
	D503	1	G	1								2-13-25	957	X	Chloride 4500						
	D504	1	G	1								2-13-25	1001	X							
	D507	0.5	G	1								2-13-25	1004	X							

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

Relinquished By: *[Signature]*

Date: 2/13-25
 Time: 1335

Received By: *[Signature]*

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Bldmrtgs@ensolum.com
 REMARKS: gms.wyne@ensolum.com

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:

Observed Temp. °C: 5.6
 Corrected Temp. °C: 5.9

Sample Condition
 Cool Intact Yes No
 Bacteria (only) Yes No

CHECKED BY: *[Signature]*

Turnaround Time: Standard Rush
 Thermometer ID #113 #140
 Correction Factor 0.5°C +0.3°C

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

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



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

March 17, 2025

GEORGIANA MCSWANE
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: CYPRESS 33-1 CTB #1

Enclosed are the results of analyses for samples received by the laboratory on 03/11/25 13:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/11/2025	Sampling Date:	03/11/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	CYPRESS 33-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: PH 06 1' (H251435-01)

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	03/12/2025	ND	1.96	98.1	2.00	3.31	
Toluene*	<0.050	0.050	03/12/2025	ND	2.03	102	2.00	2.98	
Ethylbenzene*	<0.050	0.050	03/12/2025	ND	1.97	98.4	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/12/2025	ND	5.78	96.3	6.00	2.93	
Total BTEX	<0.300	0.300	03/12/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	880	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	212	106	200	0.508	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	218	109	200	0.00414	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.4 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/11/2025	Sampling Date:	03/11/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	CYPRESS 33-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: PH 06 6' (H251435-02)

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	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	560	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	212	106	200	0.508	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	218	109	200	0.00414	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/11/2025
 Reported: 03/17/2025
 Project Name: CYPRESS 33-1 CTB #1
 Project Number: 03B1417262
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 06 7' (H251435-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.95	97.5	2.00	2.98		
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	304	16.0	03/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	0.508		
DRO >C10-C28*	<10.0	10.0	03/12/2025	ND	218	109	200	0.00414		
EXT DRO >C28-C36	<10.0	10.0	03/12/2025	ND						

Surrogate: 1-Chlorooctane 83.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.9 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/11/2025	Sampling Date:	03/11/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	CYPRESS 33-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: DS 08 0.5' (H251435-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	80.0	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2025	ND	212	106	200	0.508	
DRO >C10-C28*	<10.0	10.0	03/12/2025	ND	218	109	200	0.00414	
EXT DRO >C28-C36	<10.0	10.0	03/12/2025	ND					

Surrogate: 1-Chlorooctane 71.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.2 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/11/2025
 Reported: 03/17/2025
 Project Name: CYPRESS 33-1 CTB #1
 Project Number: 03B1417262
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/11/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS 09 0.5' (H251435-05)

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	03/11/2025	ND	1.95	97.5	2.00	2.98		
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	352	16.0	03/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788		
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28		
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND						

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.7 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	CYPRESS 33-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: PH 05 1' (H251435-06)

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	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	144	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.4 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	CYPRESS 33-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: PH 05 2' (H251435-07)

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	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	80.0	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/11/2025
 Reported: 03/17/2025
 Project Name: CYPRESS 33-1 CTB #1
 Project Number: 03B1417262
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 2' (H251435-08)

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	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	1310	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.1 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/11/2025
 Reported: 03/17/2025
 Project Name: CYPRESS 33-1 CTB #1
 Project Number: 03B1417262
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 3' (H251435-09)

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	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	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	128	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/11/2025
 Reported: 03/17/2025
 Project Name: CYPRESS 33-1 CTB #1
 Project Number: 03B1417262
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 1' (H251435-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	112	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/11/2025
 Reported: 03/17/2025
 Project Name: CYPRESS 33-1 CTB #1
 Project Number: 03B1417262
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 2' (H251435-11)

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	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	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	80.0	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.4 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	CYPRESS 33-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: PH 02 1' (H251435-12)

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	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	320	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.4 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	CYPRESS 33-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: PH 02 2' (H251435-13)

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	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	192	16.0	03/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.1 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/11/2025	Sampling Date:	03/10/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	CYPRESS 33-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: PH 01 1' (H251435-14)

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	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	03/12/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.2 % 40.6-153

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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/11/2025
 Reported: 03/17/2025
 Project Name: CYPRESS 33-1 CTB #1
 Project Number: 03B1417262
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/10/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 3' (H251435-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	1.95	97.5	2.00	2.98	
Toluene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	3.29	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.36	118	2.00	5.25	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	7.28	121	6.00	4.93	
Total BTEX	<0.300	0.300	03/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/12/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	227	113	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.4 % 40.6-153

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

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.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Georgiana McSwane
 Address: 601 N Marientfeld Suite # 400
 City: Midland State: TX Zip: 79701
 Email: gmcswane@ensolum.com
 Phone #: 254-459-2338
 Project #: 03B1417263 Project Owner: OXY
 Project Name: CYPRES 33-1 CR #1
 Project Location: Eddy Co, NM
 Sampler Name: Kaoru Shimada, Nicholas Christakos
 P.O. #: _____
 Company: Oxy USA, Inc.
 Attn: Tyson Pierce
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone #: _____
 Email: _____

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HB51435	PH06	1.6	G-1	1							3/11/25	08:32			
	PH06	3.7	G-1	1							3/11/25	08:57			
	PH06	6.1	G-1	1							3/11/25	09:06			
	PH06	8.5	G-1	1							3/11/25	09:59			
	PH06	10.5	G-1	1							3/11/25	10:36			
	PH06	15.0	G-1	1							3/11/25	10:59			
											3/11/25				

PLEASE NOTE: Liability and insurance coverage extends only for any claim arising out of or from the use of the analytical services. 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 releases or otherwise.

Relinquished By: Nicholas Christakos Date: 03/11/25 Received By: Stedrick Young
 Date: 13/16 Time: _____
 Relinquished By: _____ Date: _____ Received By: _____
 Delivered By: (Circle One) Observed Temp. °C: 4.1 Corrected Temp. °C: 4.4
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact Yes No
 Checked By: (Initials) SR
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: gmcswane@ensolum.com
 REMARKS: Paykey/AE/NonAFE:
 Temperature: Standard Bacteria (only) Sample Condition
 Rush Cool Intact Observed Temp. °C: 4.1
 Thermometer ID: #140
 Correction Factor: +0.3
 Corrected Temp. °C: _____

FORM-006 R.3.2.1007/21
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Handwritten signature/initials



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

March 24, 2025

GEORGIANA MCSWANE
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: CYPRESS 33-1 CTB #1

Enclosed are the results of analyses for samples received by the laboratory on 03/21/25 16:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/21/2025	Sampling Date:	03/20/2025
Reported:	03/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS 33-1 CTB #1	Sampling Condition:	Cool & Intact
Project Number:	03B1417262	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: DS 5 0.5' (H251690-01)

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	03/22/2025	ND	1.95	97.4	2.00	0.754	
Toluene*	<0.050	0.050	03/22/2025	ND	2.07	104	2.00	1.79	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.27	113	2.00	3.10	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.96	116	6.00	3.02	
Total BTEX	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/24/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2025	ND	210	105	200	5.78	
DRO >C10-C28*	<10.0	10.0	03/22/2025	ND	208	104	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/22/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.1 % 40.6-153

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

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.
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.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 449267

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 449267
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2501658295
Incident Name	NAPP2501658295 CYPRESS 33-1 CTB #1 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2126639502] CYPRESS 33-1 BATTERY

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	CYPRESS 33-1 CTB #1
Date Release Discovered	01/07/2025
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 7 BBL Recovered: 3 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 449267

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 449267
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/17/2025
--	---

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 449267

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 449267
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	4000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	05/01/2025
On what date will (or did) the final sampling or liner inspection occur	05/15/2025
On what date will (or was) the remediation complete(d)	06/15/2025
What is the estimated surface area (in square feet) that will be reclaimed	5700
What is the estimated volume (in cubic yards) that will be reclaimed	680
What is the estimated surface area (in square feet) that will be remediated	5700
What is the estimated volume (in cubic yards) that will be remediated	680

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 449267

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 449267
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/07/2025
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 449267

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 449267
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 6

Action 449267

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 449267
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	443658
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	10500

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
--	-----------

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 449267

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 449267
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions:	4/24/2025
scwells	1) Under the Site Characterization portion of the C-141 application, during resubmission, update the minimum distance to the following: a significant watercourse (located 300-500 feet to E).	4/24/2025
scwells	2) All confirmation samples are required to be collected no more than every 200 ft2 as this site is in a sensitive location.	4/24/2025
scwells	3) Five point composite samples must be collected from the surface of the non-excavated release extent in order to confirm no impacts remain in these areas.	4/24/2025
scwells	Submit remediation closure report to the OCD by 7/23/25.	4/24/2025