



February 5, 2026

**New Mexico Oil Conservation Division**

1220 South St. Francis Street  
Santa Fe, New Mexico 87505

**Re: Proposed Remediation Work Plan  
Precious NC 31 CTB  
Incident Number nAPP2424750109  
Facility ID: fAPP2317679662  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared the following *Proposed Remediation Work Plan* to document assessment, delineation, and soil sampling activities completed to date and propose actions to address residual impacted soil identified at the Precious NC 31 CTB (Site), following a release of produced water and crude oil. The following *Proposed Remediation Work Plan* proposes to excavate impacted soil within the release extent.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit E, Section 31, Township 23 South, Range 31 East, in Eddy County, New Mexico (32.263266°, -103.822842°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). The Facility ID and the General Incident Information on the New Mexico Oil Conservation Division (NMOCD) portal this Site is associated with (fAPP2317679662) indicates the Precious NC 31 CTB facility is in Unit K, but upon further review, it was determined that the facility and the Site are within Unit E.

On August 30, 2024, equipment failure on a 6-inch header resulted in the release of approximately 4 barrels (bbls) of crude oil and 8 bbls of produced water onto the surrounding pad and adjacent right-of-way (ROW) for surface lines south of the pad boundary in the pasture area. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 2 bbls of crude oil and 3 bbls of produced water were recovered. Oxy reported the release to the NMOCD via the Notification of Release Form (NOR) on September 3, 2024. The release was assigned Incident Number nAPP2424750109.

## **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 are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on data from a soil boring drilled to investigate regional groundwater depths. On March 20, 2024, Trinity Oil Field Services (Trinity) advanced one soil boring (SB-14) to a total depth of 105 feet bgs, approximately 0.32-miles northeast of the Site. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without

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observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A. All wells used for depth to water determination are depicted on Figure 1.

The closest continuously flowing and/or significant watercourse to the Site as defined by the National Hydrography Dataset (NHD) is an ephemeral stream, located approximately 232 feet southeast 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. The Site is not within a 100-year floodplain. The Site is not overlying a subsurface mine. The Site is not underlain by unstable geology (low karst potential designation area).

Based on correspondence with the NMOCD between February 24, 2025 and February 25, 2025 pertaining to a request for a variance for the significant watercourse/continuously flowing watercourse within 300 feet of the Site, Ensolum, on behalf of Oxy, brought in a Professional Wetland Scientist (PWS) with On Pointe Consulting (On Pointe) to conduct a field Site visit. This survey was conducted to confirm the presence or absence of a continuously flowing watercourse or a significant watercourse as defined in 19.15.17.7(D) and (P) NMAC.

On November 3, 2025, a PWS from On Pointe and an Ensolum representative conducted a field Site visit for the areas in question. The PWS collected two data points, one within the proposed ephemeral stream (dry wash) labeled UPL-01 and the other within a manmade swale (UPL-02). Their findings concluded that no significant waterway as defined by the NMOCD currently exists within the 300-foot buffer zone of our Site. The Significant Watercourse/Wetland Survey Report with more information pertaining to the Site walk and subsequent findings is included in Appendix D.

Based on On Pointe's PWS's findings summarized above, Oxy is requesting a variance for the Site Receptor distance of 300 feet to a continuously flowing watercourse and/or significant watercourse.

Based on the results of the Site Characterization, and if the above variance request is approved, the following NMOCD Table I Closure Criteria (Closure Criteria) will apply for soils on pad and for soils in the ROW pasture area 4 feet and greater:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

All soils within the ROW pasture area that are less than 4 feet bgs will adhere to the most stringent Closure Criteria below:

- Benzene: 10 mg/kg
- BTEX: 50 mg/kg
- TPH: 100 mg/kg
- Chloride: 600 mg/kg

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## DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Prior to On Pointe's field Site Visit, delineation activities were conducted between July 14, 2025 and July 15, 2025 to evaluate the release extent based on information provided on the Form C-141 and visual observations. 18 boreholes (BH01 through BH18) were advanced via hand auger and hand tools. The boreholes were advanced to maximum depths ranging from 0.5 feet to 3 feet bgs based on the lithology and if refusal was encountered. Discrete soil samples were collected from each borehole at depths ranging from 0.5 feet bgs to 3 feet bgs. Borehole locations BH01 through BH03, BH07, BH09, BH10, BH16, and BH17 encountered refusal with the hand auger at depths ranging from 0.5 feet to 1-foot bgs.

Soil from the boreholes was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic soil sampling logs, which are included in Appendix B. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the Site visits, and a photographic log is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were 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-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500 Cl-B.

Laboratory analytical results for boreholes BH01 through BH05, BH10, and BH16 through BH18 indicated TPH and/or chloride concentrations exceeding the applicable Site Closure Criteria at depths ranging from 0.5 feet to 3 feet bgs. Laboratory analytical results for the terminal depths at boreholes BH05, BH06, BH08, BH09, BH11 through BH15, and BH18, with depths ranging from 0.5 feet to 3 feet bgs, indicated all COCs were compliant with the applicable Closure Criteria and successfully defined the vertical and/or lateral extent of the release in those sample locations. Laboratory analytical results are presented in Table 1 and the complete laboratory reports and chain-of-custody documentation are presented in Appendix D.

## PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride and/or TPH concentrations exist across an approximate 14,219 square foot area and extends to a maximum depth of 3 feet bgs. Oxy proposes completing the following remediation activities pending the approval of the variance request for the significant watercourse/continuously flowing watercourse:

- Excavation of chloride and/or TPH impacted soil based on visual and olfactory observations to meet remediation and reclamation standards for the Site. Excavation will proceed vertically and laterally to meet the applicable Site Closure Criteria or to the maximum extent practicable (MEP) due to active production equipment and utilities.
- An estimated 2,106 cubic yards of chloride and/or TPH impacted soil will be excavated to the MEP. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions.
- For areas that are backfilled within the pasture area, the backfill material will be comparable to native soils for the Site and will be recontoured to match pre-existing conditions. Once remediation activities have been approved by both the NMOCD and the BLM, a *Reclamation*

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*Plan/Report* detailing reseeding activities and subsequent re-vegetation monitoring will be submitted to the NMOCD and the BLM for approval.

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 *Proposed Remediation Work Plan* by the NMOCD and BLM.

If you have any questions or comments, please contact Ms. Kelly Lowery at (214) 733-3165 or [klowery@ensolum.com](mailto:klowery@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Kelly Lowery  
Project Geologist



Beaux Jennings  
Associate Principal

cc: Daniel Sparks, Oxy USA, Inc.  
BLM









Appendices:

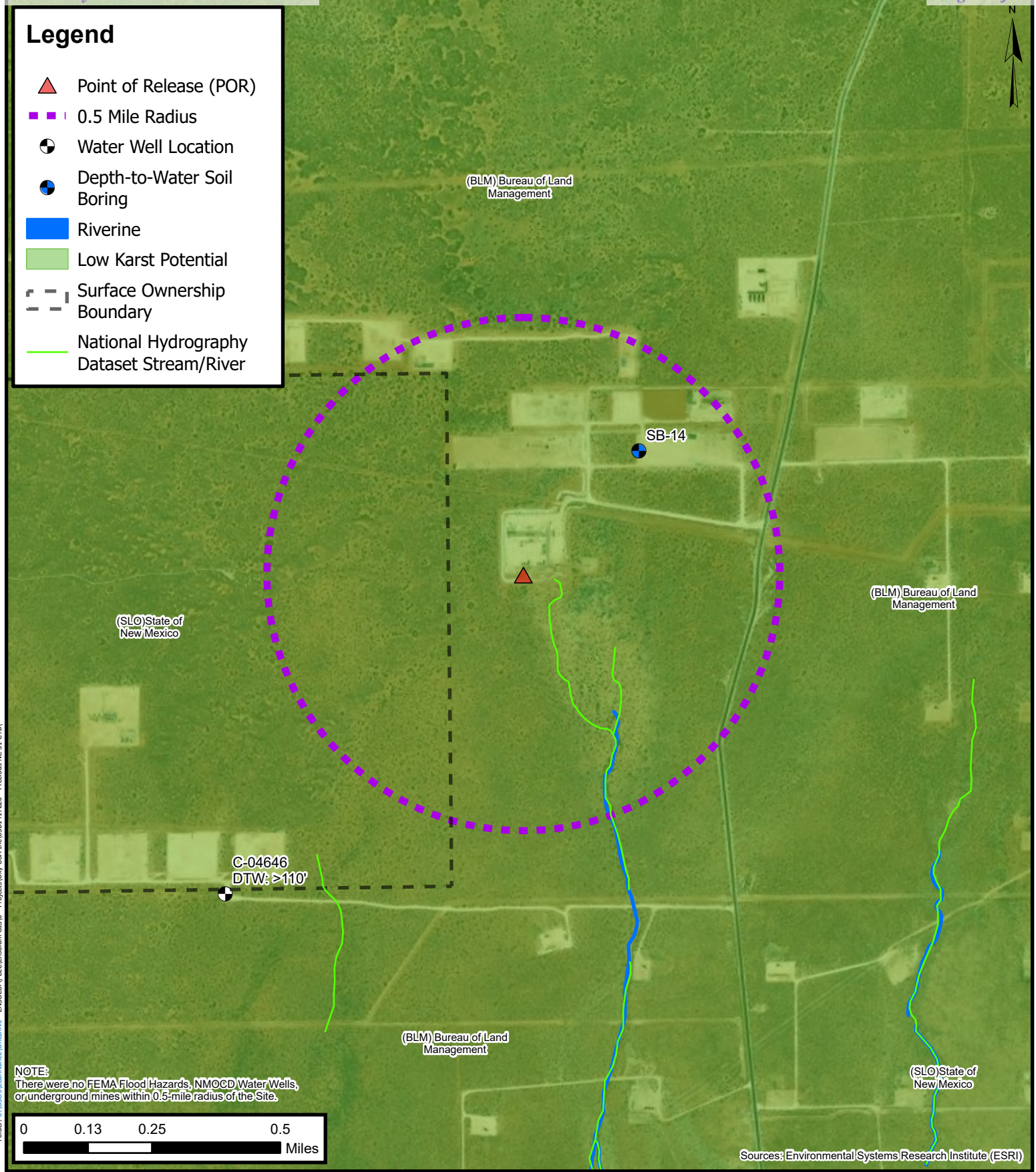
Figure 1	Closure Criteria Map
Figure 2	Delineation Site Map
Table 1	Delineation Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Significant Watercourse/Wetland Survey Report
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Correspondence



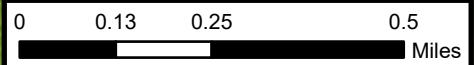
FIGURES

### Legend

-  Point of Release (POR)
-  0.5 Mile Radius
-  Water Well Location
-  Depth-to-Water Soil Boring
-  Riverine
-  Low Karst Potential
-  Surface Ownership Boundary
-  National Hydrography Dataset Stream/River



**NOTE:**  
 There were no FEMA Flood Hazards, NMOCD Water Wells, or underground mines within 0.5-mile radius of the Site.



Sources: Environmental Systems Research Institute (ESRI)



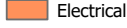
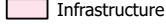


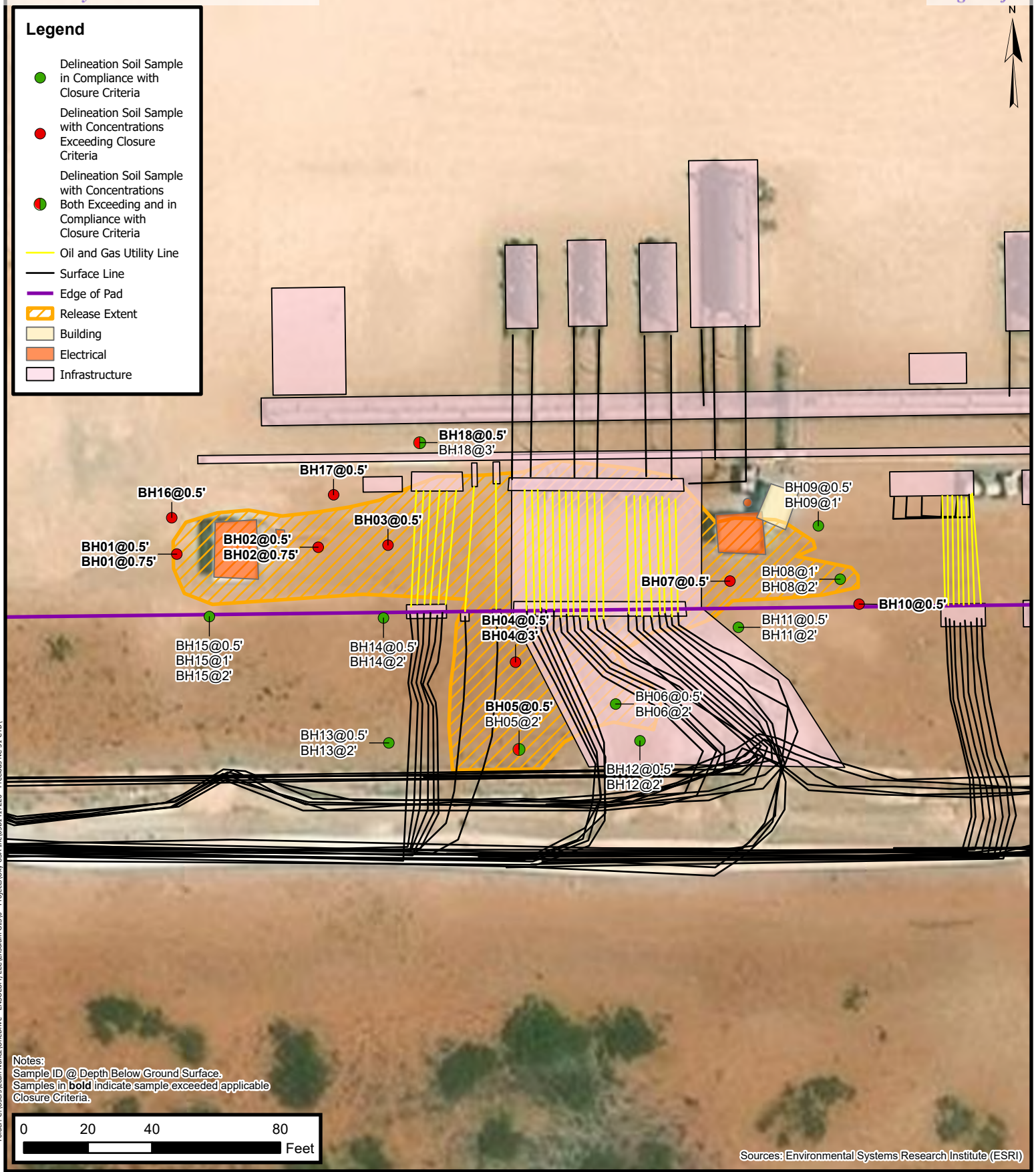
## Closure Criteria Map

Oxy USA Inc.  
 Precious NC 31 CTB  
 Project Number: 03B1417226  
 32.263266, -103.822842  
 Eddy County, New Mexico

**FIGURE**  
**1**

**Legend**

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Both Exceeding and in Compliance with Closure Criteria
- Oil and Gas Utility Line
- Surface Line
- Edge of Pad
-  Release Extent
-  Building
-  Electrical
-  Infrastructure



Folder: C:\Users\Leah.Nunez\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\Oxy USA, Inc\03B1417226 - Precious NC 31 CTB

Sources: Environmental Systems Research Institute (ESRI)



# Delineation Site Map

Oxy USA Inc.  
 Precious NC 31 CTB  
 Project Number: 03B1417226  
 32.263266, -103.822842  
 Eddy County, New Mexico

**FIGURE**  
**2**



TABLE

**TABLE 1  
DELINEATION SOIL SAMPLE ANALYTICAL RESULTS  
PRECIOUS NC 31 CTB  
OXY USA INC.  
EDDY COUNTY, NEW MEXICO**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
<b>Confirmation Delineation Soil Samples</b>										
BH01	07/15/2025	0.5	<0.050	<0.300	23.8	3,940	717	3,964	<b>4,681</b>	<b>880</b>
		0.75	<0.050	<0.300	31.2	2,920	536	2,951	<b>3,487</b>	<b>1,340</b>
BH02	07/15/2025	0.5	<0.050	2.39	110	8,060	1,450	8,170	<b>9,620</b>	432
		0.75	<0.050	4.96	262	7,590	1,110	7,852	<b>8,962</b>	<b>1,170</b>
BH03	07/14/2025	0.5	<0.050	<0.300	<10.0	1,200	234	1,200	<b>1,434</b>	<b>8,000</b>
BH04	07/14/2025	0.5	<0.050	1.87	<10.0	1,170	174	1,170	<b>1,344</b>	<b>816</b>
		3	<0.050	<0.300	<10.0	190	33.1	190	<b>223</b>	144
BH05	07/14/2025	0.5	<0.050	<0.300	<10.0	25.7	<10.0	<10.0	25.7	<b>2,680</b>
		2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH06	07/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
		2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH07	07/14/2025	0.5	<0.050	<0.300	<10.0	3,250	611	3,250	<b>3,861</b>	416
		1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH08	07/14/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
		1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH09	07/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
		1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH10	07/14/2025	0.5	<0.050	<0.300	<10.0	11.4	<10.0	11.4	11.4	<b>2,320</b>
		0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH11	07/14/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
		0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
BH12	07/14/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
		0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
BH13	07/14/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
		0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH14	07/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
		2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH15	07/15/2025	0.5	<0.050	<0.300	<10.0	41.6	<10.0	41.6	41.6	112
		1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
		2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

**TABLE 1  
DELINEATION SOIL SAMPLE ANALYTICAL RESULTS  
PRECIOUS NC 31 CTB  
OXY USA INC.  
EDDY COUNTY, NEW MEXICO**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
<b>Confirmation Delineation Soil Samples</b>										
BH16	07/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>656</b>
BH17	07/15/2025	0.5	<0.050	<0.300	37.9	5,440	1,040	5,478	<b>6,518</b>	<b>2,400</b>
BH18	07/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>1,360</b>
		3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

NE: Not Established



## APPENDIX A

### Referenced Well Records

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**SOIL BORE LOG SB-14**

<b>PROJECT NAME</b> Precious NC 31 CTB	<b>DRILLING DATE</b> 03/20/2024	<b>COORDINATES</b> 32.26646308, -103.81926161
<b>CLIENT</b> OXY USA, Inc.	<b>TOTAL DEPTH</b> 105'	<b>COORD SYS</b> NAD 83
		<b>ULSTR</b> C-31-23S-31E
		<b>SURFACE ELEVATION</b> 3351'

**COMMENTS** Spud on the West side of the Precious 30 18 Federal Com #003H Well Pad. Bore Hole was observed to be dry after 72 hrs.

**LOGGED BY** CJ  
**CHECKED BY** DD

Depth (ft)	Moisture	Material Description	Elevation (ft)
5	D	Light Red Soil. Dry	3350
		Yellowish Red Soil. Dry	3345
10		Reddish Yellow Soil. Dry	3340
15		Very Light Red Soil. Dry	3335
20		Reddish Yellow Soil. Dry	3330
25		Reddish Yellow Soil. Dry	3325
30		Light Red Soil. Dry	3320
35			3315
40		Light Red Soil. Dry	3310
45		Red Soil. Dry	3305
50		Red Soil. Dry	3300
55			3295
60			3290
65			3285
70			3280
75		Reddish Brown Soil. Dry	3275
80			3270
85			3265
90		Red Soil. Dry	3260
95			3255
100			3250
105		Red Soil. Dry	
		Termination Depth at: 105 ft.	3245


**Disclaimer** This bore log is intended to evidence a depth to groundwater greater than 105'.





## APPENDIX B


### Lithologic Soil Sampling Logs


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				Sample Name: BH01		Date: 07/15/2025		
				Site Name: Precious NC 31 CTB				
				Incident Number: nAPP2424750109				
				Job Number: 03B1417226				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: Sherele Brooks		Method: Hand auger		
Coordinates: 32.263063, -103.823552				Hole Diameter: 3"		Total Depth: 0.75'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,198	51.8	N	BH01	0.5'	0.5'	CCHE	Indurated caliche w/ sand, coarse grained, trace silt, non-cohesive, faint odor, well graded, ML
D	1,837	71.3	N		0.75'	0.75'		
								Hand auger refusal at 0.75' (bgs)


					Sample Name: BH02		Date: 07/15/2025	
					Site Name: Precious NC 31 CTB			
					Incident Number: nAPP2424750109			
					Job Number: 03B1417226			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Sherele Brooks		Method: Hand auger	
Coordinates: 32.263073, -103.823409					Hole Diameter: 3"		Total Depth: 0.75'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	398	60.1	N	BH02	0.5'	0.5'	CCHE	Indurated caliche w/ sand, coarse grained, trace silt, non-cohesive, strong odor, well graded, ML
D	1,294	184.4	N		0.75'	0.75'		
								Hand auger refusal at 0.75' (bgs)


				Sample Name: BH03		Date: 07/14/2025		
				Site Name: Precious NC 31 CTB				
				Incident Number: nAPP2424750109				
				Job Number: 03B1417226				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: SHERELE BROOKS		Method: Hand auger		
Coordinates: 32.263074, -103.823339				Hole Diameter: 3"		Total Depth: 0.5'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	10,802	19.7	N	BH03	0.5'	0.5'	CCHE	Indurated caliche w/ sand, coarse grained, trace silt, non-cohesive, well graded, ML
								Hand auger refusal at 0.5' (bgs)


				Sample Name: BH04		Date: 07/14/2025		
				Site Name: Precious NC 31 CTB				
				Incident Number: nAPP2424750109				
				Job Number: 03B1417226				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: Sherele Brooks		Method: Hand auger		
Coordinates: 32.262973, -103.823211				Hole Diameter: 3"		Total Depth: 3'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,294	87.3	N	BH04	0.5'	0.5'	SP-SM	Medium grained sand, poorly graded, trace silt, non-cohesive, ML
D	454	0.7	N		1'			
D	644	0.3	N		2'			
D	246	0.6	N		3'	3'		Medium grained sand w/ silt, trace clay, non-cohesive, poorly graded
								Total depth (bgs) @ 3'


					Sample Name: BH05		Date: 07/14/2025			
					Site Name: Precious NC 31 CTB				Incident Number: nAPP2424750109	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Job Number: 03B1417226		Logged By: Sherele Brooks		Method: Hand auger	
					Coordinates: 32.262898, -103.823209				Hole Diameter: 3"	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D	2,912	8.9	N	BH05	0.5'	0.5'	SP-SM	Medium grained sand, poorly graded, trace silt, non-cohesive, ML		
D	784	0.1	N		1'					
D	468	0.1	N		2'					
							Total depth (bgs) @ 2'			


 <b>ENSOLUM</b> Environmental, Engineering and Hydrogeologic Consultants					Sample Name: BH06		Date: 07/14/2025	
					Site Name: Precious NC 31 CTB			
					Incident Number: nAPP2424750109			
					Job Number: 03B1417226			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Sherele Brooks		Method: Hand auger	
Coordinates: 32.262936, -103.823111					Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	347	10.8	N	BH06	0.5'	0.5'	SP-SM	Medium grained sand, poorly graded, trace silt, non-cohesive, ML
D	207	0.2	N		1'			
D	246	0.1	N		2'			
Total depth (bgs) @ 2'								


					Sample Name: BH07		Date: 07/14/2025	
					Site Name: Precious NC 31 CTB			
					Incident Number: nAPP2424750109			
					Job Number: 03B1417226			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Sherele Brooks		Method: Hand auger	
Coordinates: 32.263040, -103.822994					Hole Diameter: 3"		Total Depth: 0.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	577	16.2	N	BH07	0.5'	0.5'	CCHE	Indurated caliche w/ sand, non-cohesive, trace silt, coarse grained, well graded, ML
								Hand auger refusal at 0.5' (bgs)


					Sample Name: BH08		Date: 07/14/2025					
					Site Name: Precious NC 31 CTB				Incident Number: nAPP2424750109			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Job Number: 03B1417226			Logged By: Sherele Brooks			Method: Hand auger	
					Coordinates: 32.263041, -103.822883					Hole Diameter: 3"		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions				
D	468	1	N	BH08	1'	1'	SP-SM	Medium grained sand, poorly graded, trace silt, non-cohesive, ML				
D	468	0.4	N		2'	2'						
Total depth (bgs) @ 2'												


 <b>ENSOLUM</b> Environmental, Engineering and Hydrogeologic Consultants					Sample Name: BH09		Date: 07/14/2025					
					Site Name: Precious NC 31 CTB				Incident Number: nAPP2424750109			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Job Number: 03B1417226			Logged By: Sherele Brooks			Method: Hand auger	
					Coordinates: 32.263087, -103.822904					Hole Diameter: 3"		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions				
D	468	0.1	N	BH09	0.5'	0.5'	CCHE	Indurated caliche, w/ sand, trace silt, coarse grained, well graded, non-cohesive, ML				
D	468	0.1	N		1'	1'						
Hand auger refusal at 1' (bgs)												


					Sample Name: BH10		Date: 07/14/2025					
					Site Name: Precious NC 31 CTB				Incident Number: nAPP2424750109			
					Job Number: 03B1417226				Logged By: Sherele Brooks		Method: Hand auger	
					Coordinates: 32.263019, -103.822864				Hole Diameter: 3"		Total Depth: 0.5'	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>												
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions				
D	3,590	0.9	N	BH10	0.5'	0.5'	CCHE	Indurated caliche, w/ sand, trace silt, coarse grained, well graded, non-cohesive, ML				
								Hand auger refusal at 0.5' (bgs)				


				Sample Name: BH11		Date: 07/14/2025					
				Site Name: Precious NC 31 CTB				Incident Number: nAPP2424750109			
				Job Number: 03B1417226				Logged By: Sherele Brooks		Method: Hand auger	
				Coordinates: 32.263000, -103.822986				Hole Diameter: 3"		Total Depth: 2'	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>											
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	468	0.5	N	BH11	0.5'	0.5'	SP-SM	Fine-medium grained sand, poorly graded, trace silt, non-cohesive, ML SAA w/ trace clay			
D	468	0	N		1'						
D	468	0	N		2'						
								Total depth (bgs) @ 2'			

				Sample Name: BH12		Date: 07/14/2025		
				Site Name: Precious NC 31 CTB				
				Incident Number: nAPP2424750109				
				Job Number: 03B1417226				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: Sherele Brooks		Method: Hand auger		
Coordinates: 32.262904, -103.823087				Hole Diameter: 3"		Total Depth: 2'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	515	0	N	BH12	0.5'	0.5'	SP-SM	Medium grained sand, poorly graded, trace silt, non-cohesive, ML
D	515	0.2	N		1'	1'		
D	468	0.0	N		2'	2'		
								Total depth (bgs) @ 2'


 <b>ENSOLUM</b> Environmental, Engineering and Hydrogeologic Consultants					Sample Name: BH13		Date: 7/14/2025	
					Site Name: Precious NC 31 CTB			
					Incident Number: nAPP2424750109			
					Job Number: 03B1417226			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Sherele Brooks		Method: Hand auger	
Coordinates: 32.262905, -103.823340					Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	294	0.0	N	BH13	0.5'	0.5'	SP-SM	Medium grained sand, poorly graded, trace silt, non-cohesive, ML
D	246	0.0	N		1'			
D	468	0.0	N		2'			
Total depth (bgs) @ 2'								

				Sample Name: BH14		Date: 07/14/2025		
				Site Name: Precious NC 31 CTB				
				Incident Number: nAPP2424750109				
				Job Number: 03B1417226				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: Sherele Brooks		Method: Hand auger		
Coordinates: 32.263012, -103.823344				Hole Diameter: 3"		Total Depth: 2'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	468	0.0	N	BH14	0.5'	0.5'	SP-SM	Medium grained sand, poorly graded, trace silt, non-cohesive, ML
D	468	0.0	N		1'	1'		
D	468	0.0	N		2'	2'		
								Total depth (bgs) @ 2'

					Sample Name: BH15		Date: 07/15/2025					
					Site Name: Precious NC 31 CTB				Incident Number: nAPP2424750109			
					Job Number: 03B1417226				Logged By: Jake Simpson		Method: Hand auger	
					Coordinates: 32.263015, -103.823520				Hole Diameter: 3"		Total Depth: 2'	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>												
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity. CL: low plasticity to medium plasticity												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions				
D	468	0.7	N	BH15	0.5'	0.5'	SP-SM	Fine grained sand with silt, ML-CL				
D	386	0.1	N		1'	1'						
D	468	0.1	N		2'	2'						
Total depth (bgs) @ 2'												

					Sample Name: BH16		Date: 07/15/2025	
					Site Name: Precious NC 31 CTB			
					Incident Number: nAPP2424750109			
					Job Number: 03B1417226			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Jake Simpson		Method: Hand auger	
Coordinates: 32.263100, -103.823557					Hole Diameter: 3"		Total Depth: 0.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	1,075	0.0	N	BH16	0.5'	0.5'	SP-SM	Coarse to medium grained sand with silt, ML
								Hand auger refusal at 0.5' (bgs)



					Sample Name: BH18		Date: 07/15/2025			
					Site Name: Precious NC 31 CTB				Incident Number: nAPP2424750109	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Job Number: 03B1417226		Logged By: Sherele Brooks		Method: Hand auger	
					Coordinates: 32.263162, -103.823306					Hole Diameter: 3"
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. bgs: below ground surface. ML: non-plastic to low plasticity. CL: low plasticity to medium plasticity										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D	1,719	2.8	N	BH18	0.5'	0.5'	CCHE	Indurated caliche, w/ sand, trace silt, coarse grained, well graded, non-cohesive		
D	1,719	1.1	N		0.75'					
D	1,495	1.0	N		1'	SP-SM	Fine-medium grained sand w/ silt, poorly graded, trace clay, non-cohesive, ML-CL			
D	1,019	1.0	N		2'					
D	468	0.6	N		3'					
								Total depth (bgs) @ 3'		



APPENDIX C  
Photographic Log

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**Photographic Log**  
Oxy USA, Inc  
Precious NC 31 CTB  
nAPP2424750109



Photograph: 1 Date: 7/15/2025  
Description: BH14 location during delineation activities  
View: Southeast

Photograph: 2 Date: 7/15/2025  
Description: BH01 location during delineation activities  
View: Southeast



Photograph: 3 Date: 7/15/2025  
Description: View of release extent during delineation activities  
View: Southeast

Photograph: 4 Date: 7/15/2025  
Description: View of release extent during delineation activities  
View: Northeast



## APPENDIX D

### Significant Watercourse/Wetland Survey Report

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PO Box 617  
Firestone, CO 80520

November 5, 2025

Ms. Kelly Lowery  
Project Geologist  
Ensolum, LLC

RE: Waterway Review for the Precious NC 31 CTB

On Pointe Consulting's Professional Wetland Scientist Tiffany Anders (PWS Certification #2992) conducted a field site visit of Precious NC 31 CTB on November 3, 2025, to provide a PWS verification for Ensolum, LLC.

Two data points were recorded in the field using the U.S. Army Corps of Engineers (USACE) data forms for the Arid West Region (UPL-01 and UPL-02). UPL-01 was recorded within an NHD flowline near one release site and UPL-02 was recorded within a manmade swale near a second release site. Photo points (PP-01 to PP-03) document the upland conditions surrounding the third release site. No wetlands or streams as defined by the USACE were found within the 300-foot buffer of the three releases.

A short dry wash with matted grasses near UPL-01 had evidence of occasional flow, likely from significant precipitation events. A dry wash is defined as a streambed that only carries water during and immediately following rainstorms. However, the dry wash did not meet the criteria for a stream (lacking banks and an Ordinary High Water Mark [OHWM]). The evidence of flow in the dry wash was discontinuous to downstream waterway segments outside of the study area, where the NHD-mapped feature picked up with a bed and bank south of a new pipeline right-of-way more than 100 feet outside of the study area. This erosional dry wash in the 300-foot buffer lacked any direct surface connectivity to potential Waters of the United States.

UPL-02 was recorded at a linear swale that appeared to have been created as a borrow area for the adjacent facility's containment berm. Evidence of temporary ponding was observed in the closed depressional swale with soil cracks in a silt layer at the surface; however, hydrophytic vegetation and hydric soil have not formed, indicating the area does not receive enough precipitation or surface runoff to provide wetland hydrology to support a wetland vegetation community as defined by the USACE. The swale also lacked any direct surface connectivity to potential Waters of the United States.

As such, On Pointe suggests that no significant waterway as defined by the New Mexico Oil Conservation District exists within the 300-foot buffer of the three release locations.

Sincerely,

A handwritten signature in black ink, appearing to read "Tiffany Anders".

Tiffany Anders, PWS #2992





PO Box 617  
Firestone, CO 80520

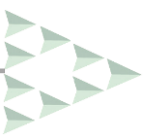
Attachments:

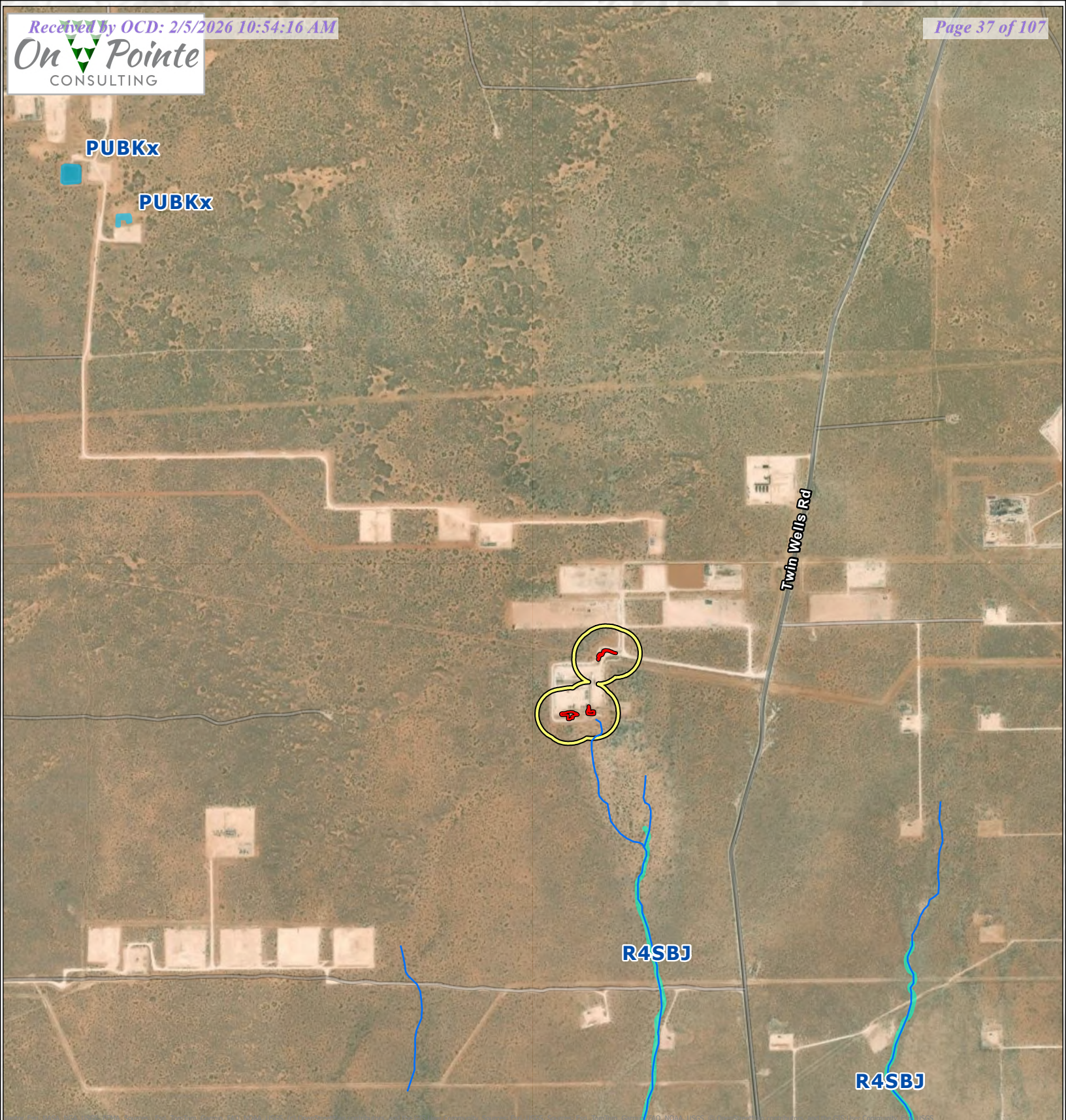
Figures

Photo Log






USACE Datasheets

Tiffany Anders, PWS Resume





**Legend**

-  Project Area
-  Survey Area (300' Buffer)
-  National Hydrography Dataset (NHD)
-  National Wetland Inventory (NWI)
-  Freshwater Pond

**Figure 1. Precious NC 31 CTB NHD/NWI Map**

Eddy County, New Mexico

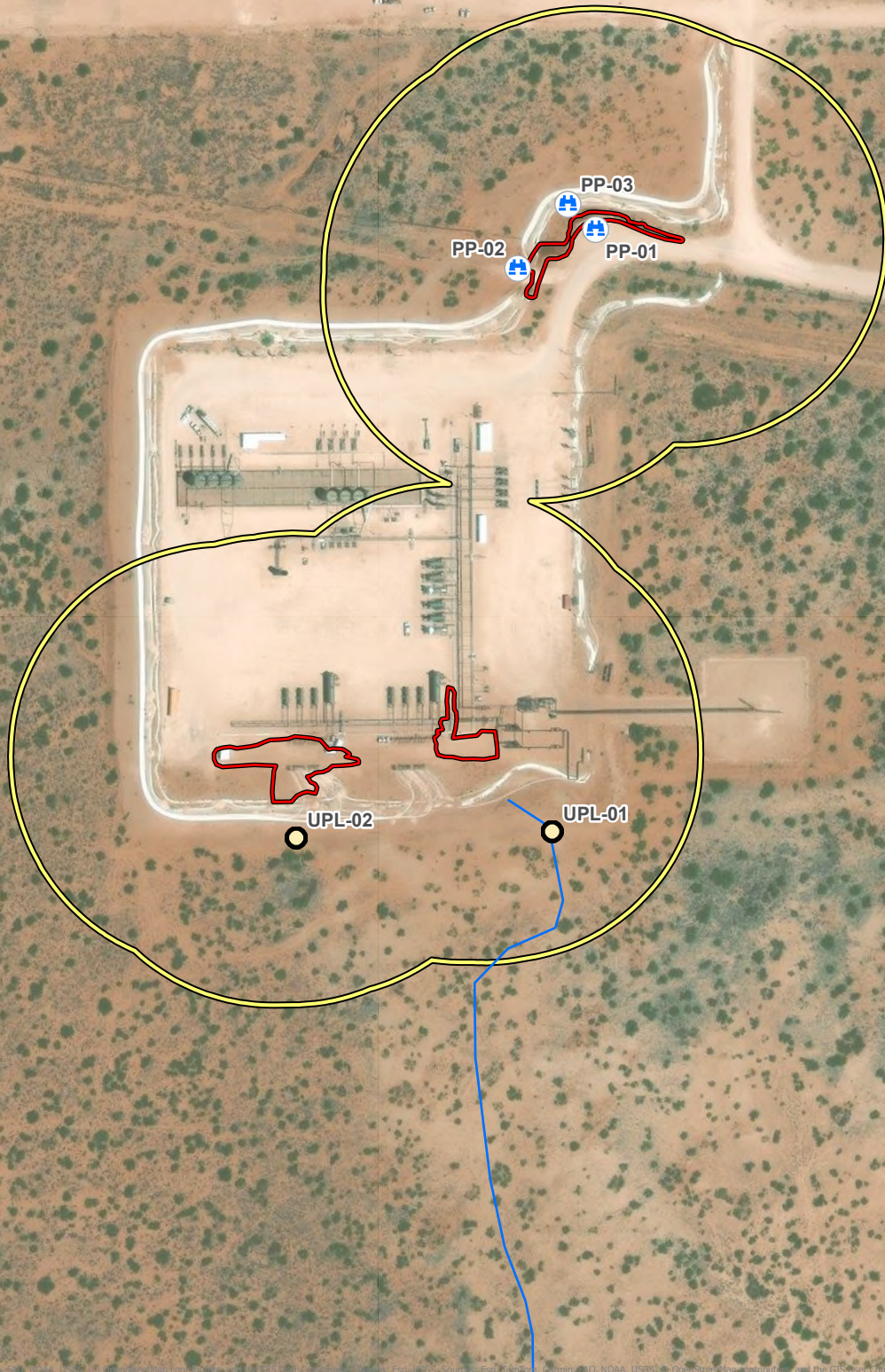


0 1,500 3,000  
Feet






0 500 1,000  
Meters

Spatial Reference:  
WGS 1984 UTM Zone 13N



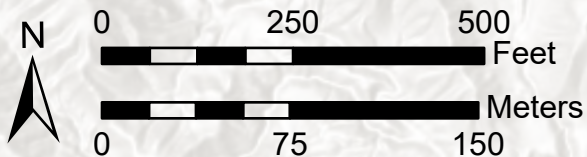


**Legend**

-  Photo Point
-  Soil Test Pit
-  Project Area
-  Survey Area (300' Buffer)
-  National Hydrography Dataset (NHD)

**Figure 2. Precious NC 31 CTB Survey Results Map**

Eddy County, New Mexico



Spatial Reference:  
WGS 1984 UTM Zone 13N





Photograph 1: UPL-01, facing north



Photograph 2: UPL-01, facing east

Precious NC 31 CTB



Representative Photographs  
November 2025



Photograph 3: UPL-01, facing south



Photograph 4: UPL-02, facing west

Precious NC 31 CTB



Representative Photographs  
November 2025



Photograph 5: UPL-01, soil pit



Photograph 6: UPL-02, facing north

Precious NC 31 CTB



Representative Photographs  
November 2025



Photograph 7: UPL-02, facing east



Photograph 8: UPL-02, facing south

Precious NC 31 CTB



Representative Photographs  
November 2025



Photograph 9: UPL-02, facing west



Photograph 10: UPL-02, soil pit

Precious NC 31 CTB



Representative Photographs  
November 2025



Photograph 11: PP-01, facing north



Photograph 12: PP-01, facing west

Precious NC 31 CTB



Representative Photographs  
November 2025



Photograph 13: PP-02, facing north



Photograph 14: PP-02, facing northwest

Precious NC 31 CTB



Representative Photographs  
November 2025



Photograph 15: PP-03, facing north



Photograph 16: PP-03, facing northwest

Precious NC 31 CTB



Representative Photographs  
November 2025

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Arid West Region</b> See ERDC/EL TR-08-28; the proponent agency is CECW-COR	<b>OMB Control #: 0710-0024, Exp: 09/30/2027</b> <b>Requirement Control Symbol EXEMPT:</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Precious NC 31 CTB City/County: Eddy County Sampling Date: 2025-11-03  
 Applicant/Owner: Ensolum, LLC State: New Mexico Sampling Point: UPL-01  
 Investigator(s): T. Anders Section, Township, Range: sec 31 T023S R031E  
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-2  
 Subregion (LRR): LRR G, MLRA 70B Lat: 32.262746 Long: -103.821935 Datum: WGS84  
 Soil Map Unit Name: Berino complex, 0 to 3 percent slopes, eroded NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	--

Remarks:  
 Upland data point at NWI flowline at a slight depression area. Area contained a short segment of sheet flow / dry wash with matted grasses that lacked banks and lacked down gradient connectivity where a stream forms with bed and bank well to the south of the study area.

**VEGETATION – Use scientific names of plants.**

Tree Stratum	(Plot size: <u>30'</u> radius )	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
		<u>0</u>	=Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>15'</u> radius )				
1.					
2.					
3.					
4.					
5.					
		<u>0</u>	=Total Cover		
Herb Stratum	(Plot size: <u>5'</u> radius )				
1.	<u>Eragrostis lehmanniana</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
2.	<u>Amaranthus palmeri</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
3.	<u>Xanthisma spinulosum</u>	<u>10</u>	<u>Y</u>	<u>UPL</u>	
4.	<u>Xanthium strumarium</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
5.	<u>Cenchrus spinifex</u>	<u>7</u>	<u>N</u>	<u>UPL</u>	
6.	<u>Setaria leucopila</u>	<u>3</u>	<u>N</u>	<u>UPL</u>	
7.	<u>Machaeranthera tanacetifolia</u>	<u>3</u>	<u>N</u>	<u>UPL</u>	
8.	<u>Bouteloua barbata</u>	<u>2</u>	<u>N</u>	<u>UPL</u>	
		<u>67.0</u>	=Total Cover		
Woody Vine Stratum	(Plot size: <u>30'</u> radius )				
1.					
2.					
		<u>0</u>	=Total Cover		
% Bare Ground in Herb Stratum <u>33</u>		% Cover of Biotic Crust <u>        </u>			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 4 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 25.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of:                      Multiply by:  
 OBL species 0 x 1 = 0  
 FACW species 0 x 2 = 0  
 FAC species 10 x 3 = 30  
 FACU species 15 x 4 = 60  
 UPL species 42 x 5 = 210  
 Column Totals: 67 (A)      300.00 (B)  
 Prevalence Index = B/A = 4.48

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ Dominance Test is >50%  
 \_\_\_ Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes  No

Remarks:

**SOIL**

Sampling Point: UPL-01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	5YR	3/4	100				FS	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Iron Monosulfide (A18)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>
---	--

Remarks:

**HYDROLOGY**

Wetland Hydrology Indicators:	Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?        Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Arid West Region</b> See ERDC/EL TR-08-28; the proponent agency is CECW-COR	<b>OMB Control #: 0710-0024, Exp: 09/30/2027</b> <b>Requirement Control Symbol EXEMPT:</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
---	--

Project/Site: Precious NC 31 CTB City/County: Eddy County Sampling Date: 2025-11-03  
 Applicant/Owner: Ensolum, LLC State: New Mexico Sampling Point: UPL-02  
 Investigator(s): T. Anders Section, Township, Range: sec 31 T023S R031E  
 Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 0-2  
 Subregion (LRR): LRR G, MLRA 70B Lat: 32.262723 Long: -103.823157 Datum: WGS84  
 Soil Map Unit Name: Berino complex, 0 to 3 percent slopes, eroded NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Upland data point at a closed, created swale used as a borrow area for the adjacent facility's containment berm.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum	(Plot size: <u>30' radius</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
		<u>0</u>	=Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>15' radius</u> )				
1.	<u>Quercus harvardii</u>	<u>10</u>	<u>Y</u>	<u>UPL</u>	
2.	<u>Prosopis glandulosa</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>	
3.					
4.					
5.					
		<u>15.0</u>	=Total Cover		
Herb Stratum	(Plot size: <u>5' radius</u> )				
1.	<u>Solanum elaeagnifolium</u>	<u>3</u>	<u>Y</u>	<u>UPL</u>	
2.	<u>Cenchrus spinifex</u>	<u>3</u>	<u>Y</u>	<u>UPL</u>	
3.					
4.					
5.					
6.					
7.					
8.					
		<u>6.0</u>	=Total Cover		
Woody Vine Stratum	(Plot size: <u>30' radius</u> )				
1.					
2.					
		<u>0</u>	=Total Cover		
% Bare Ground in Herb Stratum <u>94</u>		% Cover of Biotic Crust <u>        </u>			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

---

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>5</u>	x 4 = <u>20</u>
UPL species <u>16</u>	x 5 = <u>80</u>
Column Totals: <u>21</u> (A)	<u>100.00</u> (B)
Prevalence Index = B/A = <u>4.76</u>	

---

**Hydrophytic Vegetation Indicators:**

Dominance Test is >50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

---

**Hydrophytic Vegetation Present?** Yes  No

Remarks:

**SOIL**

Sampling Point: UPL-02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix			Redox Features			Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type <sup>1</sup>		
0-2	7.5YR	4/3	100				SI	
2-6	7.5YR	4/6	100				SL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Iron Monosulfide (A18)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: <u>Severe compaction encountered</u> Depth (inches): <u>6</u>	<b>Hydric Soil Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Remarks:

**HYDROLOGY**

Wetland Hydrology Indicators:	Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
 Cracked soil surface in the upper silt layer due to temporary ponding, indicative of short duration ponding not long enough to support wetland vegetation or create hydric soils conditions.



## RESUME OF QUALIFICATIONS

### Education

M.A. Geography, Resources and Environmental Studies  
Texas State University  
San Marcos, TX

B.A. Applied Sciences, Technology and Performance Improvement  
University of North Texas  
Denton, TX

### Capabilities

- Wetland Delineation Surveys
- District-Specific Wetland Functional Assessments
- T&E Surveys and Habitat Assessments
- Avian & MBTA Clearance Surveys
- Noxious Weed Surveys
- Revegetation & Restoration Monitoring
- Biological Monitoring
- Field Survey Coordination & Management
- Data Management and QA/QC
- FERC Environmental Resource Report Writing

### Certifications & Trainings

- Professional Wetland Scientist (PWS) #2992, Society of Wetland Scientists
- USACE Wetland Delineation Cert. of Training (40hr course)
- Hydric Soils Training
- Wetland Plant Identification
- FERC Environmental Review and Compliance for Natural Gas Facilities
- BLM Special Status Plant Species Identification Training, Carlsbad, NM Field Office

## Tiffany Anders, PWS

### Senior Ecologist, Wetland Scientist

Ms. Tiffany Anders offers nearly 20 years of experience as an environmental consultant to private industry, a former New Mexico Environment Department (NMED) Wetland Program Project Officer, and previously a conservation specialist at not-for-profit organizations. At On Pointe Consulting LLC, Tiffany aims to provide high quality field data and sound technical writing skills. Tiffany has been certified by the Society of Wetland Scientists as a Professional Wetland Scientist (PWS, #2992) and will deliver quality *On Pointe* data using a variety of data collection methodologies and standards. She has successfully completed wetland delineations across several U.S. Army Corps of Engineers (USACE) regions, including the Arid West, Atlantic and Gulf Coastal Plain, Eastern Mountains and Piedmont, Great Plains, and the Midwest.

Tiffany specializes in constraint analysis, pre-construction environmental surveys, impact assessment, construction phase monitoring, as well as post-construction support. In addition to wetland delineation, her field survey experience includes biological monitoring, coastal/estuarine aquatic habitat surveys, noxious weed surveys, threatened and endangered (T&E) species habitat assessment, T&E presence/absence surveys, erosion control device monitoring, Migratory Bird Treaty Act (MBTA) nest surveys, and restoration and revegetation monitoring. Tiffany's project experience includes working on electric transmission lines and substations, intrastate and interstate pipelines, liquefied natural gas (LNG) export projects, solar and wind projects, as well as Federal Energy Regulatory Commission (FERC) regulated projects.

While in the office, Tiffany provides task management, siting and permitting support, biological field survey coordination, and serves as prime author to many types of environmental technical reports including wetland delineation reports and functional assessments, FERC resource reports, environmental assessments, environmental impact assessments, and habitat assessments. She also has a keen eye for the details and works diligently to keep your project *On Pointe*.

### Representative Project Experience:

#### **Wetland Program Project Officer: New Mexico Environment Department (NMED).**

Ms. Anders managed various wetland conservation and restoration projects for depression, slope, riverine, and playa wetlands across the State of New Mexico. Led coordination with the U.S. Forest Service, Natural Heritage of New Mexico, and Bureau of Land Management on projects.

#### **Biological Lead: Double E Pipeline Project, New Mexico (NM) and West Texas (TX).**

Ms. Anders successfully completed field coordination, wetland and stream delineations, and various studies for a proposed 135-mile FERC-regulated pipeline. Conducted habitat assessments for T&E species/habitats, raptor nest surveys, noxious weeds, presence/absence for the lesser prairie-chicken, pre-clearing avian nest surveys, and biological monitoring and trench monitoring during construction. Western burrowing owls and other migratory birds were also nesting at project areas and were buffered/monitored during project construction.



## RESUME OF QUALIFICATIONS

### Tiffany Anders

**Wetland Delineation and T&E Habitat Assessment: Double E Lateral Projects, NM.**

Ms. Anders conducted wetland and stream delineations and various biological studies for multiple laterals to the 135-mile FERC regulated Double E Pipeline. She used the Arid West USACE Regional Supplement and A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States to assess waterways and wetlands and conducted habitat assessments for T&E species/habitats, raptor and migratory bird nests, and noxious weeds.

**Wetland Delineation Lead: Confidential Solar Project, Arizona.**

Ms. Anders led field surveys for wetland and stream delineations and habitat assessments at a 5,540-acre proposed project area.

**Field Ecologist: Confidential Pipeline Project, TX and Oklahoma.**

Ms. Anders conducted pre-construction wetland and waterbody surveys, bird monitoring and nest surveys, spill reporting, and post-construction right-of-way revegetation and stormwater pollution prevention plan (SWPPP) monitoring for a 549-mile natural gas pipeline.

**Environmental Project Specialist: Confidential LNG Pipeline Project, Louisiana (LA).**

Ms. Anders assessed the proposed route for environmental constraints; led coordination of environmental surveys for a proposed 632-acre LNG export facility site and 24 miles of lateral pipelines; authored the wetland delineation report; and prepared the FERC Environmental Resource Reports on water quality, water use, land use, recreation, and aesthetics.

**Field Ecologist: Confidential LNG Facility and Pipeline Project, Coastal LA.**

Ms. Anders coordinated environmental surveys for a proposed 503-acre LNG export facility and 40 miles of lateral pipelines; wetland/waterbody surveys; RTE habitat surveys; wetland delineation reports; wetland functional assessments; permitting and mitigation support; and preparation of FERC Resources Reports on water quality, water use, land use, recreation, and aesthetics.

**Environmental Project Specialist: Multiple Intrastate Transmission Line Projects, Ohio, Pennsylvania, Virginia, West Virginia.**

Ms. Anders coordinated multiple, simultaneously active new and/or rebuild transmission line projects; led field biological survey coordination, managed agency consultations and project permitting, and was lead author for various technical reports.

**Environmental Project Specialist: Confidential Natural Gas Pipeline Project, Illinois and Missouri.**

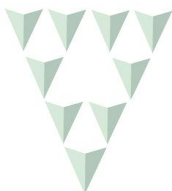
Ms. Anders led wetland and stream delineations and bald eagle nest surveys for a proposed 66-mile FERC-regulated pipeline; assisted with permitting efforts; and authored on Resource Reports pertaining to water use and quality, geology, land use, aesthetics, and recreation.

**Lead Field Ecologist: Confidential Ethane Line Project in Nueces, San Patricio, Refugio, Calhoun, Jackson, and Matagorda Counties, TX.**

Wetland and stream delineations, special status species' habitat assessments, and raptor nest surveys for a proposed 135-mile ethane line.

**Resource Specialist: Confidential Pipeline Project, West TX.**

Ms. Anders reviewed geographical information systems (GIS) biological field data for portions of a 200-mile natural gas pipeline.





## APPENDIX E

### Laboratory Analytical Reports & Chain-of-Custody

### Documentation

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

July 21, 2025

KELLY LOWERY  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: PRECIOUS NC 31 CTB (8/30/2024)

Enclosed are the results of analyses for samples received by the laboratory on 07/15/25 15:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 04 0.5' (H254202-01)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
<b>Ethylbenzene*</b>	<b>0.239</b>	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
<b>Total Xylenes*</b>	<b>1.63</b>	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
<b>Total BTEX</b>	<b>1.87</b>	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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
<b>Chloride</b>	<b>816</b>	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	189	94.7	200	3.28		
<b>DRO &gt;C10-C28*</b>	<b>1170</b>	10.0	07/16/2025	ND	173	86.3	200	3.21		
<b>EXT DRO &gt;C28-C36</b>	<b>174</b>	10.0	07/16/2025	ND						

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 157 % 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  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 04 3' (H254202-02)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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
<b>Chloride</b>	<b>144</b>	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	189	94.7	200	3.28	
<b>DRO &gt;C10-C28*</b>	<b>190</b>	10.0	07/16/2025	ND	173	86.3	200	3.21	
<b>EXT DRO &gt;C28-C36</b>	<b>33.1</b>	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 127 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 05 0.5' (H254202-03)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	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
<b>Chloride</b>	<b>2680</b>	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	189	94.7	200	3.28	
<b>DRO &gt;C10-C28*</b>	<b>25.7</b>	10.0	07/16/2025	ND	173	86.3	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 05 2' (H254202-04)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	64.0	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	189	94.7	200	3.28	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	173	86.3	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 06 0.5' (H254202-05)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	336	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	189	94.7	200	3.28	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	173	86.3	200	3.21	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 06 2' (H254202-06)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	176	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 96.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.6 % 40.6-153

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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 12 0.5' (H254202-07)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	400	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 12 2' (H254202-08)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	48.0	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 03 0.5' (H254202-09)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>8000</b>	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
<b>DRO &gt;C10-C28*</b>	<b>1200</b>	10.0	07/16/2025	ND	202	101	200	1.94	
<b>EXT DRO &gt;C28-C36</b>	<b>234</b>	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 123 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 07 0.5' (H254202-10)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	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
<b>Chloride</b>	<b>416</b>	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12		
<b>DRO &gt;C10-C28*</b>	<b>3250</b>	10.0	07/16/2025	ND	202	101	200	1.94		
<b>EXT DRO &gt;C28-C36</b>	<b>611</b>	10.0	07/16/2025	ND						

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 174 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 08 1' (H254202-11)**

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	07/17/2025	ND	2.07	103	2.00	1.16	
Toluene*	<0.050	0.050	07/17/2025	ND	2.07	104	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.09	105	2.00	0.986	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.24	104	6.00	1.39	
Total BTEX	<0.300	0.300	07/17/2025	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	64.0	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 08 2' (H254202-12)**

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	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	64.0	16.0	07/16/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 09 0.5' (H254202-13)**

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	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 09 1' (H254202-14)**

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	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 10 0.5' (H254202-15)**

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	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2320</b>	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
<b>DRO &gt;C10-C28*</b>	<b>11.4</b>	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 11 0.5' (H254202-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 11 2' (H254202-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 13 0.5' (H254202-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 13 2' (H254202-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.7 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 14 0.5' (H254202-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/14/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 14 2' (H254202-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 01 0.5' (H254202-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>880</b>	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>23.8</b>	10.0	07/16/2025	ND	203	102	200	1.12	
<b>DRO &gt;C10-C28*</b>	<b>3940</b>	10.0	07/16/2025	ND	202	101	200	1.94	
<b>EXT DRO &gt;C28-C36</b>	<b>717</b>	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 69.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 147 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 01 0.75' (H254202-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.2	10.0	07/16/2025	ND	203	102	200	1.12	
DRO >C10-C28*	2920	10.0	07/16/2025	ND	202	101	200	1.94	
EXT DRO >C28-C36	536	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 147 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 02 0.5' (H254202-24)**

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	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	GC-NC
<b>Total Xylenes*</b>	<b>2.39</b>	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	GC-NC1
<b>Total BTEX</b>	<b>2.39</b>	0.300	07/16/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>432</b>	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>110</b>	10.0	07/16/2025	ND	203	102	200	1.12		
<b>DRO &gt;C10-C28*</b>	<b>8060</b>	10.0	07/16/2025	ND	202	101	200	1.94		
<b>EXT DRO &gt;C28-C36</b>	<b>1450</b>	10.0	07/16/2025	ND						

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 286 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 02 0.75' (H254202-25)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2025	ND	2.11	105	2.00	0.234		
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179		
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	GC-NC	
<b>Total Xylenes*</b>	<b>4.96</b>	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	GC-NC1	
<b>Total BTEX</b>	<b>4.96</b>	0.300	07/16/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1170</b>	16.0	07/16/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>262</b>	10.0	07/16/2025	ND	203	102	200	1.12		
<b>DRO &gt;C10-C28*</b>	<b>7590</b>	10.0	07/16/2025	ND	202	101	200	1.94		
<b>EXT DRO &gt;C28-C36</b>	<b>1110</b>	10.0	07/16/2025	ND						

Surrogate: 1-Chlorooctane 122 % 44.4-145

Surrogate: 1-Chlorooctadecane 258 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 18 0.5' (H254202-26)**

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	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	194	96.8	200	0.132	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	208	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 18 3' (H254202-27)**

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	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	194	96.8	200	0.132	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	208	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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1.08' S

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Kelly Lowrey  
 Address: 601 Menardfield St #400  
 City: Midland State: TX Zip: 79701  
 Phone #: 214-733-3165 Fax #:   
 Project #: D38141226 Project Owner:   
 Project Name: Pecos NC 31 CTB (8/30/2024)  
 Project Location: Eddy County  
 Sampler Name: Sunde Brooks  
 P.O. #: 450219829  
 Company: Oxy USA Inc  
 Attn: David Spraves  
 Address:   
 City:   
 State: Zip:   
 Phone #:   
 Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Analysis
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
1054202	B404	0.5	G	1			X				7/14/25	10:40	Chlorides 4500
	B405	2.3'									7/14/25	10:42	TPH 8015M
	B405	0.5									7/14/25	10:43	BTEX 8021
	B406	2									7/14/25	10:45	
	B406	0.5'									7/14/25	10:40	
	B406	2'									7/14/25	10:42	
	B412	0.5'									7/14/25	10:43	
	B412	2'									7/14/25	10:45	
	B403	0.5'									7/14/25	13:26	
	B407	0.5'									7/14/25	13:28	

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Relinquished By: *Made Brock*  
 Date: 7-15-25  
 Time: 1503  
 Received By: *Peavos*  
 Date:   
 Time:   
 Verbal Result:  Yes  No  Add'l Phone #:   
 All Results are emailed. Please provide Email address: *blowen@ensolum.com, Sunde@ensolum.com, jing@ensolum.com*  
 REMARKS: *#2 sample ID, date + time corrected, per client. 8 probe tubes*  
 Turnaround Time:  Standard  Rush  
 Thermometer ID: *#140*  
 Correction Factor: *70.3*  
 Bacteria (only)      
 Cool Intact      
 Sample Condition      
 Observed Temp. °C      
 Corrected Temp. °C

Delivered By: (Circle One)  UPS  Bus  Other:   
 Observed Temp. °C: 1.8  
 Corrected Temp. °C: 0.1  
 Sample Condition: Cool Intact    
 Checked By: *AD*  
 FORM-006 R 3.2 10/07/21  
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*2.08.23*  
**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Ensolum, LLC

**BILL TO**

ANALYSIS REQUEST

Project Manager: *Vicky Lowery*

P.O. #: *4502319829*

Address: *601 Mansfield St #400*

Company: *Oxy USA Inc*

City: *Midland* State: *TX* Zip: *79701*

Attn: *David Sparks*

Phone #: *214-733-3165* Fax #:

Address:

Project #: *038141726* Project Owner:

City:

Project Name: *Peavous NC 31 CRT3 (8/30/2024)*

State: Zip:

Project Location: *Feddy County*

Phone #:

Sampler Name: *Shweta Brooks*

Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>11</i>	<i>BH08</i>	<i>1'</i>	<i>G</i>	<i>1</i>			<i>X</i>								
<i>12</i>	<i>BH09</i>	<i>2'</i>	<i>G</i>	<i>1</i>			<i>X</i>								
<i>13</i>	<i>BH09</i>	<i>0.5'</i>													
<i>14</i>	<i>BH09</i>	<i>1'</i>													
<i>15</i>	<i>BH10</i>	<i>0.5'</i>													
<i>16</i>	<i>BH11</i>	<i>0.5'</i>													
<i>17</i>	<i>BH11</i>	<i>2'</i>													
<i>18</i>	<i>BH13</i>	<i>0.5'</i>													
<i>19</i>	<i>BH13</i>	<i>2'</i>													
<i>20</i>	<i>BH14</i>	<i>0.5'</i>													

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Relinquished By: *Mulle Yarn*

Date: *7-15-25*

Received By: *APAVAS*

Relinquished By: *Mulle Yarn*

Date: *15-23*

Received By: *APAVAS*

Delivered By: (Circle One)  UPS  Bus  Other

Observed Temp. °C: *1.8*

Sample Condition:  Intact  Cool  Yes  No

CHECKED BY: (Initials) *AP*

Turnaround Time:  Standard  Rush

Thermometer ID: *#140*

Correction Factor: *70.3*

Bacteria (only)  Cool  Intact  Yes  No

Sample Condition  Observed Temp. °C

Corrected Temp. °C

Verbal Result:  Yes  No  Add'l Phone #:

REMARKS: *Flow @ Ensolum.com, Smoke @ Ensolum.com, Sample @ Ensolum.com*

Incident:  Cost Center:

Standard  Rush

Bacteria (only)  Cool  Intact  Yes  No

Sample Condition  Observed Temp. °C

Corrected Temp. °C

Verbal Result:  Yes  No  Add'l Phone #:

REMARKS: *Flow @ Ensolum.com, Smoke @ Ensolum.com, Sample @ Ensolum.com*

Incident:  Cost Center:



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30X'S

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**Company Name:** Ensolum, LLC

**Project Manager:** Kelly Lowrey

**Address:** 601 Marland St #400

**City:** Midland **State:** TX **Zip:** 79701

**Phone #:** 214-733-3165 **Fax #:**

**Project #:** 038644226 **Project Owner:**

**Project Name:** PREVIOUS NC 31 CTRB (8/30/2024)

**Project Location:** Fiddy County

**Sampler Name:** Sweene Brooks

**P.O. #:** 4502319829

**Company:** Oxy USA Inc

**Attn:** David Spores

**Address:**

**City:**

**State:** **Zip:**

**Phone #:**

**Fax #:**

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
125400	BH14	2'	G	1			X				3/19/25	10:11	X Chlorides 4500
01	BH01	0.5'									3/19/25	10:13	X TPH 8015M
02	BH01	0.75'									3/19/25	10:17	X BTEX 8021
03	BH02	0.5'									3/19/25	10:20	
04	BH02	0.75'									3/19/25	10:23	
05	BH02	0.5'									3/19/25	11:33	
06	BH08	3'											
07	BH08												

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**Relinquished By:** [Signature]

**Date:** 1/15/25

**Time:** 1:50:35

**Received By:** [Signature]

**Date:** 1/30/25

**Time:**

**Verbal Result:**  Yes  No **Add'l Phone #:**

**REMARKS:** Viewed Ensolum.com, Spores@Ensolum.com, jim@Ensolum.com

**Incident:**

**Cost Center:**

**Turnaround Time:** Standard  Rush

**Thermometer ID:** #142

**Correction Factor:** +0.3

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

**Corrected Temp. °C:**

**Delivered By:** (Circle One)

**Sampler - UPS - Bus - Other:**

**Observed Temp. °C:** 18

**Corrected Temp. °C:** 21.2

**Sample Condition:**  Cool  Intact  Yes  No  Yes  No

**CHECKED BY:** [Signature]

**FORM-006 R 3.2 10/07/21**

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July 21, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PRECIOUS NC 31 CTB (8/30/2024)

Enclosed are the results of analyses for samples received by the laboratory on 07/15/25 15:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 15 0.5' (H254205-01)**

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	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	194	96.8	200	0.132	
<b>DRO &gt;C10-C28*</b>	<b>41.6</b>	10.0	07/16/2025	ND	208	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 15 1' (H254205-02)**

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	07/16/2025	ND	2.11	105	2.00	0.234	
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179	
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699	
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652	
Total BTEX	<0.300	0.300	07/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	194	96.8	200	0.132	
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	208	104	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 15 2' (H254205-03)**

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	07/16/2025	ND	2.11	105	2.00	0.234		
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179		
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699		
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652		
Total BTEX	<0.300	0.300	07/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/16/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	194	96.8	200	0.132		
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	208	104	200	1.09		
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND						

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 16 0.5' (H254205-04)**

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	07/16/2025	ND	2.11	105	2.00	0.234		
Toluene*	<0.050	0.050	07/16/2025	ND	2.23	111	2.00	0.0179		
Ethylbenzene*	<0.050	0.050	07/16/2025	ND	2.08	104	2.00	0.0699		
Total Xylenes*	<0.150	0.150	07/16/2025	ND	6.18	103	6.00	0.0652		
Total BTEX	<0.300	0.300	07/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	07/16/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2025	ND	194	96.8	200	0.132		
DRO >C10-C28*	<10.0	10.0	07/16/2025	ND	208	104	200	1.09		
EXT DRO >C28-C36	<10.0	10.0	07/16/2025	ND						

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	07/15/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	PRECIOUS NC 31 CTB (8/30/2024)	Sampling Condition:	Cool & Intact
Project Number:	03B1417226	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY COUNTY		

**Sample ID: BH 17 0.5' (H254205-05)**

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	07/17/2025	ND	2.06	103	2.00	1.56		
Toluene*	<0.050	0.050	07/17/2025	ND	2.10	105	2.00	1.56		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	1.73	GC-NC	
<b>Total Xylenes*</b>	<b>0.297</b>	0.150	07/17/2025	ND	6.04	101	6.00	1.74	GC-NC1	
Total BTEX	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2400</b>	16.0	07/16/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>37.9</b>	10.0	07/16/2025	ND	194	96.8	200	0.132			
<b>DRO &gt;C10-C28*</b>	<b>5440</b>	10.0	07/16/2025	ND	208	104	200	1.09			
<b>EXT DRO &gt;C28-C36</b>	<b>1040</b>	10.0	07/16/2025	ND							

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 270 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





## APPENDIX F

### NMOCD Correspondence

**Kelly Lowery**

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Tuesday, February 25, 2025 5:46 PM  
**To:** Kelly Lowery  
**Subject:** RE: [EXTERNAL] Extension Request - Precious NC 31 CTB (Incident ID: nAPP2424750109)

[\*\*EXTERNAL EMAIL\*\*]

You're welcome, Kelly.

Shelly


---

**From:** Kelly Lowery <klowery@ensolum.com>  
**Sent:** Tuesday, February 25, 2025 4:20 PM  
**To:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Cc:** Dittrich, John W <Wade\_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson\_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>; Kent, Jessica <Jessica\_Kent@oxy.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** RE: [EXTERNAL] Extension Request - Precious NC 31 CTB (Incident ID: nAPP2424750109)

Good afternoon Shelly,

Ok great thank you for letting us know.

Have a good evening,

 **Kelly Lowery, GIT**  
Project Geologist  
214-733-3165  
**Ensolum, LLC**  
in f t

---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Tuesday, February 25, 2025 2:15 PM  
**To:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Cc:** Dittrich, John W <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; Pierce, Tyson (Legacy Safety & Consulting LLC) <[tyson\\_pierce@oxy.com](mailto:tyson_pierce@oxy.com)>; Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>; Kent, Jessica <[Jessica\\_Kent@oxy.com](mailto:Jessica_Kent@oxy.com)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] Extension Request - Precious NC 31 CTB (Incident ID: nAPP2424750109)

[\*\*EXTERNAL EMAIL\*\*]

Good afternoon Kelly,

Yes, if you would like to conduct a boots-on-the-ground survey and submit a variance request pursuant to 19.15.29.14 NMAC based on your findings, then by all means do. Because OCD has not received a site

characterization/remediation plan to date, the preferred method would be via OCD Permitting as a site characterization/remediation plan or with your remediation closure report, either of which is due by May 26, 2025.

Kind regards,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---



**From:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Sent:** Monday, February 24, 2025 11:49 AM  
**To:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Cc:** Dittrich, John W <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; Pierce, Tyson (Legacy Safety & Consulting LLC) <[tyson\\_pierce@oxy.com](mailto:tyson_pierce@oxy.com)>; Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>; Kent, Jessica <[Jessica\\_Kent@oxy.com](mailto:Jessica_Kent@oxy.com)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] Extension Request - Precious NC 31 CTB (Incident ID: nAPP2424750109)

Hi Shelly,

Thank you for the clarification. Referring to my question in the last email, if a boots-on-the-ground survey is conducted of the area to ascertain whether a “significant watercourse” is present per the definition you detailed below, and findings are presented to the OCD via email or portal (again whichever is preferred), would a variance be able to be requested and approved if findings show no “significant watercourse” is present?

If the area does indicate a defined bed and bank, the most stringent limits will be applied.

Thank you,

 **Kelly Lowery, GIT**  
Project Geologist  
214-733-3165  
Ensolum, LLC  
in f 

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**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Monday, February 24, 2025 12:40 PM  
**To:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Cc:** Dittrich, John W <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; Pierce, Tyson (Legacy Safety & Consulting LLC) <[tyson\\_pierce@oxy.com](mailto:tyson_pierce@oxy.com)>; Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>; Kent, Jessica <[Jessica\\_Kent@oxy.com](mailto:Jessica_Kent@oxy.com)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] Extension Request - Precious NC 31 CTB (Incident ID: nAPP2424750109)

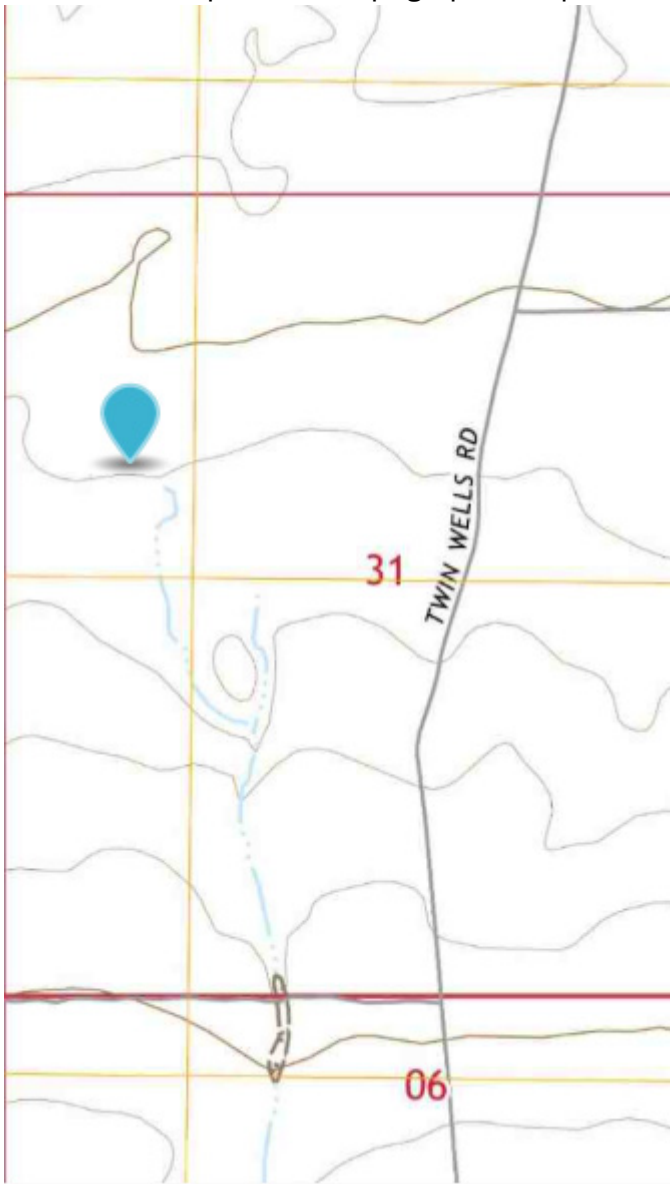
[\*\*EXTERNAL EMAIL\*\*]

Hi Kelly,

I am not referring to the wetland which is further south. Use the Hydrology layer and you will see this



Also when it is put into a topographic map it is shown as a dotted line.



Currently the site must be remediated to the most stringent standards.

Sincerely,

Shelly Wells

---

**From:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Sent:** Monday, February 24, 2025 10:26 AM  
**To:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrn.nm.gov](mailto:Shelly.Wells@emnrn.nm.gov)>  
**Cc:** Dittrich, John W <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; Pierce, Tyson (Legacy Safety & Consulting LLC) <[tyson\\_pierce@oxy.com](mailto:tyson_pierce@oxy.com)>; Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>; Kent, Jessica <[Jessica\\_Kent@oxy.com](mailto:Jessica_Kent@oxy.com)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrn.nm.gov](mailto:mike.bratcher@emnrn.nm.gov)>  
**Subject:** RE: [EXTERNAL] Extension Request - Precious NC 31 CTB (Incident ID: nAPP2424750109)


Hi Shelly,

Thank you for the speedy response. In regards to the defined “riverine”, it is approximately 1,712 feet to the southeast of the Site per the U.S. Fish and Wildlife Service National Wetlands Inventory GIS Map, therefore it should be not be considered as within 300 feet of a “significant watercourse”. It seems different websites define and map these wetland features and are not always in agreement with one another.

If needed, a wetlands survey may be conducted to confirm the absence or presence of said wetland/significant watercourse. Once complete, these findings would be sent to the OCD either via email or the portal (whichever is preferred), for review.

Please let us know if the above would suffice and we will get to work on having it completed.

Thank you,



**Kelly Lowery, GIT**  
 Project Geologist  
 214-733-3165  
 Ensolum, LLC  
 in f t

---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Monday, February 24, 2025 11:07 AM  
**To:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Cc:** Dittrich, John W <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; Pierce, Tyson (Legacy Safety & Consulting LLC) <[tyson\\_pierce@oxy.com](mailto:tyson_pierce@oxy.com)>; Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>; Kent, Jessica <[Jessica\\_Kent@oxy.com](mailto:Jessica_Kent@oxy.com)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] Extension Request - Precious NC 31 CTB (Incident ID: nAPP2424750109)

[\*\*EXTERNAL EMAIL\*\*]

Good morning Kelly,

As I had not previously reviewed the Site Characterization data for this release, please note that if any part of the release area is within 300 feet of the significant watercourse (which is defined as having a defined bed & bank-identified by a dashed blue line on a standard USGS topographic map) located immediately south of the pad, then this release must be remediated “as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC” per 19.15.29.12(C)4 NMAC.

Note that under the Site Characterization portion of the C-141 application, the minimum distances to the following will need updated upon submittal of either remediation plan or closure report: a significant watercourse (~250 ft to southeast), any lakebed, sinkhole or playa lake (1-5 miles) and a 100-year floodplain (1-5 miles).

The extension request for NAPP2424750109 PRECIOUS NC 31 CTB is approved. Due to the sensitive nature of this site, a remediation plan or remediation closure report is due to the OCD by May 26, 2025. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Kelly Lowery <[klowery@ensolum.com](mailto:klowery@ensolum.com)>  
**Sent:** Monday, February 24, 2025 8:19 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Dittrich, John W <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; Pierce, Tyson (Legacy Safety & Consulting LLC) <[tyson\\_pierce@oxy.com](mailto:tyson_pierce@oxy.com)>; Beaux Jennings <[bjennings@ensolum.com](mailto:bjennings@ensolum.com)>; Kent, Jessica <[Jessica\\_Kent@oxy.com](mailto:Jessica_Kent@oxy.com)>  
**Subject:** [EXTERNAL] Extension Request - Precious NC 31 CTB (Incident ID: nAPP2424750109)

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 90-day extension for the Precious NC 31 CTB (Incident ID: nAPP2424750109). Remediation has been delayed while Operations performs various testing throughout the facility which limits the amount of work that can be completed. The Site Characterization was uploaded to the portal on September 6, 2024 and I've provided various maps depicting the site characterizations for the Site. Additionally, there is one soil boring (SB-14) that was drilled by Trinity Oilfield Services on 3/20/2024 to a total depth of 105 feet below ground surface (bgs) approximately 0.32-miles northwest of the Site. It was left open for a period of 72-hours to confirm the presence or absence of groundwater. No groundwater was detected after the 72-hour period. The soil bore log has been attached for reference.

With the information provided, we humbly ask that the 90-day extension be granted.

Please let us know if you have any questions.

Thank you,



**Kelly Lowery, GIT**  
Project Geologist  
214-733-3165  
Ensolum, LLC  
in f social media icons for LinkedIn, Facebook, and Twitter.

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 550860

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 550860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2424750109
Incident Name	NAPP2424750109 PRECIOUS NC 31 CTB @ FAPP2317679662
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2317679662] PRECIOUS NC 31 CTB

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	PRECIOUS NC 31 CTB
Date Release Discovered	08/30/2024
Surface Owner	Federal

<b>Incident Details</b>	
<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

<b>Nature and Volume of Release</b>	
<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	Cause: Equipment Failure   Injection Header   Crude Oil   Released: 4 BBL   Recovered: 2 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Injection Header   Produced Water   Released: 8 BBL   Recovered: 3 BBL   Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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 550860

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 550860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
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: <b>Ensolum Company</b> Email: <b>Oxy_Midland@ensolum.com</b> Date: <b>02/05/2026</b>
--	--

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 550860

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 550860
	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	Attached Document
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
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	Low
A 100-year floodplain	Greater than 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)	8000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9620
GRO+DRO (EPA SW-846 Method 8015M)	8170
BTEX (EPA SW-846 Method 8021B or 8260B)	5
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	07/14/2025
On what date will (or did) the final sampling or liner inspection occur	05/06/2026
On what date will (or was) the remediation complete(d)	05/06/2026
What is the estimated surface area (in square feet) that will be reclaimed	14219
What is the estimated volume (in cubic yards) that will be reclaimed	2106
What is the estimated surface area (in square feet) that will be remediated	14219
What is the estimated volume (in cubic yards) that will be remediated	2106

*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 550860

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 550860
	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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	FEEM0112342028 LEA LAND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 02/05/2026
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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.

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QUESTIONS, Page 5

Action 550860

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 550860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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

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QUESTIONS, Page 6

Action 550860

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 550860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>558965</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>03/05/2026</b>
What was the (estimated) number of samples that were to be gathered	<b>20</b>
What was the sampling surface area in square feet	<b>4000</b>

**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	<b>No</b>
--	-----------

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CONDITIONS

Action 550860

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 550860
	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:	3/5/2026
scwells	1) OCD approves the Significant Watercourse Evaluation Report for the portion of the mapped feature that is within the 300 foot buffer of the release nAPP2424750109, southeast of PRECIOUS NC 31 CTB.	3/5/2026
scwells	1) Horizontal delineation is incomplete. Ensure horizontal delineation is achieved during remediation. BH02 is required to be vertically delineated below Closure Criteria. BH17 must be included in excavation and requires vertical delineation.	3/5/2026
scwells	2) OCD requires that any base or wall that is exposed during excavation, even due to benching and sloping, have samples collected pursuant to 19.15.29 NMAC. Ensure sidewall samples are collected between the varying depths of excavation and clearly show these on the Figures in your closure report.	3/5/2026
scwells	3) Excavation must continue past the proposed depth if confirmation samples do not meet the applicable Table I Closure Criteria. Confirmation soil samples must consist of five-point composite samples from the side wall and base and individual grab samples from any wet or discolored areas, representing a surface area of no more than 200 ft2 unless otherwise approved.	3/5/2026
scwells	Submit a remediation closure report to OCD by 6/3/2026.	3/5/2026