



May 16, 2025

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

**Re: Remediation Work Plan  
New Wave Old Indian Draw Frac Line  
Incident Number NAPP2505952408  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of New Wave Energy (New Wave) and Mewbourne Oil Company (Mewbourne), has prepared the following *Remediation Work Plan (Work Plan)* to document delineation activities completed to date and propose excavation of impacted soil identified at the New Wave Old Indian Draw Frac Line (Site). The purpose of the delineation activities was to define the lateral and vertical extent of impacted soil resulting from a produced water release. The following *Work Plan* proposes to excavate impacted soil and conduct confirmation soil sampling activities.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit B of Section 13, and Units N and O of Section 12, Township 22 South, Range 27 East, in Eddy County, New Mexico (32.39774°, -104.14157°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM) and private land managed by Select Water Solutions (Select).

On February 17, 2025, a produced water surface pipeline failed, resulting in the release of 1,137 barrels (bbls) of produced water onto an active right-of-way (ROW) and into the surrounding pasture area. A vacuum truck was dispatched to the Site and recovered 120 bbls of the released fluids. New Wave reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and Initial C-141 Application (C-141) on February 28, 2025. The release was assigned Incident Number NAPP2505952408.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. On December 9, 2021, New Mexico Office of State Engineer (OSE) permitted well (C-4554) was advanced to a depth of 80 feet below ground surface (bgs) approximately 0.34 miles west of the Site. The recorded depth to groundwater after the well completion was finished was 18 feet bgs. The Well Record & Log is included in Appendix A.

XTO Energy, Inc.  
Remediation Work Plan  
New Wave Old Indian Draw Frac Line

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 4,290 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 and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On April 9, 2025, Ensolum personnel conducted Site assessment and delineation activities to evaluate the release extent based on information provided on the C-141 and visual observations. Twenty-four delineation soil samples (SS01 through SS24) were collected within and around the release extent from a depth of 0.5 feet bgs to assess the lateral and vertical extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The delineation 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 the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

Between April 11 and April 15, 2025, Ensolum personnel returned to the Site to oversee vertical delineation of the release. Thirteen boreholes (PH01, BH01 through BH12) were advanced via hand auger and heavy equipment to depths ranging from 1-foot to 6 feet bgs. Delineation boreholes PH01 was advanced in the area of SS18, BH01 was advanced in the area of SS24, BH02 in the area of SS23, BH03 in the area of SS22, BH04 in the area of SS21, and BH05 in the area of SS20. Discrete delineation soil samples were collected from each borehole at depths ranging from 1-foot bgs to 6 feet bgs. Soil from the boreholes was field screened for VOCs and chloride as described above. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Delineation soil samples collected from each borehole were handled and analyzed for the same COCs as described above and submitted to Cardinal. All boreholes and delineation soil sample locations are depicted on Figure 2.

## LABORATORY ANALYTICAL RESULTS



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Remediation Work Plan  
New Wave Old Indian Draw Frac Line

Laboratory analytical results for the delineation soil samples SS01 through SS17 collected outside the release extent, indicated COC concentrations were in compliance with the Closure Criteria and reclamation requirements, successfully defining the lateral extent of the release. Delineation soil samples SS18, PH01A, SS23, SS24, BH06, BH09, BH09A, BH11, BH11A, BH11B, BH11D, BH11E, BH12, and BH12A indicated chloride concentrations exceeded reclamation requirement standards. All other delineation soil samples collected indicated COC concentrations below the Closure Criteria and reclamation requirement standards. This includes all soil samples collected from the terminal depths of all boreholes advanced, thus, successfully defining the vertical extent of the release. Laboratory analytical results are summarized in Table 1 and the Laboratory Analytical Reports & Chain-of-Custody Documentation are presented in Appendix D.

## PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated concentrations exists across an approximate 173,268 square foot area and extends to a maximum depth of 6 feet bgs. New Wave proposes to complete the following remediation activities:

- Excavation of impacted soil to depths ranging from 1-foot to 6 feet bgs. An estimated 15,900 cubic yards impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill disposal facility for disposal.
- Based on an estimated 173,268 square-foot release extent area, New Wave requests a variance for frequency of excavation confirmation soil samples. New Wave proposes the frequency of confirmation soil sampling for the excavation floor to be every 400 square feet. This would decrease the total amount of soil samples from approximately 866 samples (every 200 square feet) to approximately 433 samples (every 400 square feet). Each 5-point confirmation composite floor soil sample will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The proposed sampling grid and approximate excavation extent area is depicted on Figure 3b. All sidewall confirmation soil samples will be collected at a frequency of every 200 square feet (approximately 26 samples). The soil samples will be handled and analyzed for the same COCs described above and submitted to Cardinal.
- Following excavation and a review of confirmation soil sampling results indicating impacted soil has been removed, the excavation will be backfilled with locally procured like-material and recontoured to match pre-existing Site conditions and reseeded with a BLM approved seed mixture.

New Wave will proceed with the excavation and soil sampling activities and will submit a Closure Report within 90 days of the date of approval of this Work Plan by the NMOCD.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or [tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com).

XTO Energy, Inc.  
Remediation Work Plan  
New Wave Old Indian Draw Frac Line

Sincerely,  
**Ensolum, LLC**



Jeremy Reich  
Project Geologist



Tacoma Morrissey, MS  
Associate Principal

cc: Brock Molander, New Wave  
Connor Walker, Mewbourne Operating Company  
Jeff Broom, Mewbourne Operating Company  
Matt Weiskopf, Select  
Timsan Bricker, Select  
BLM

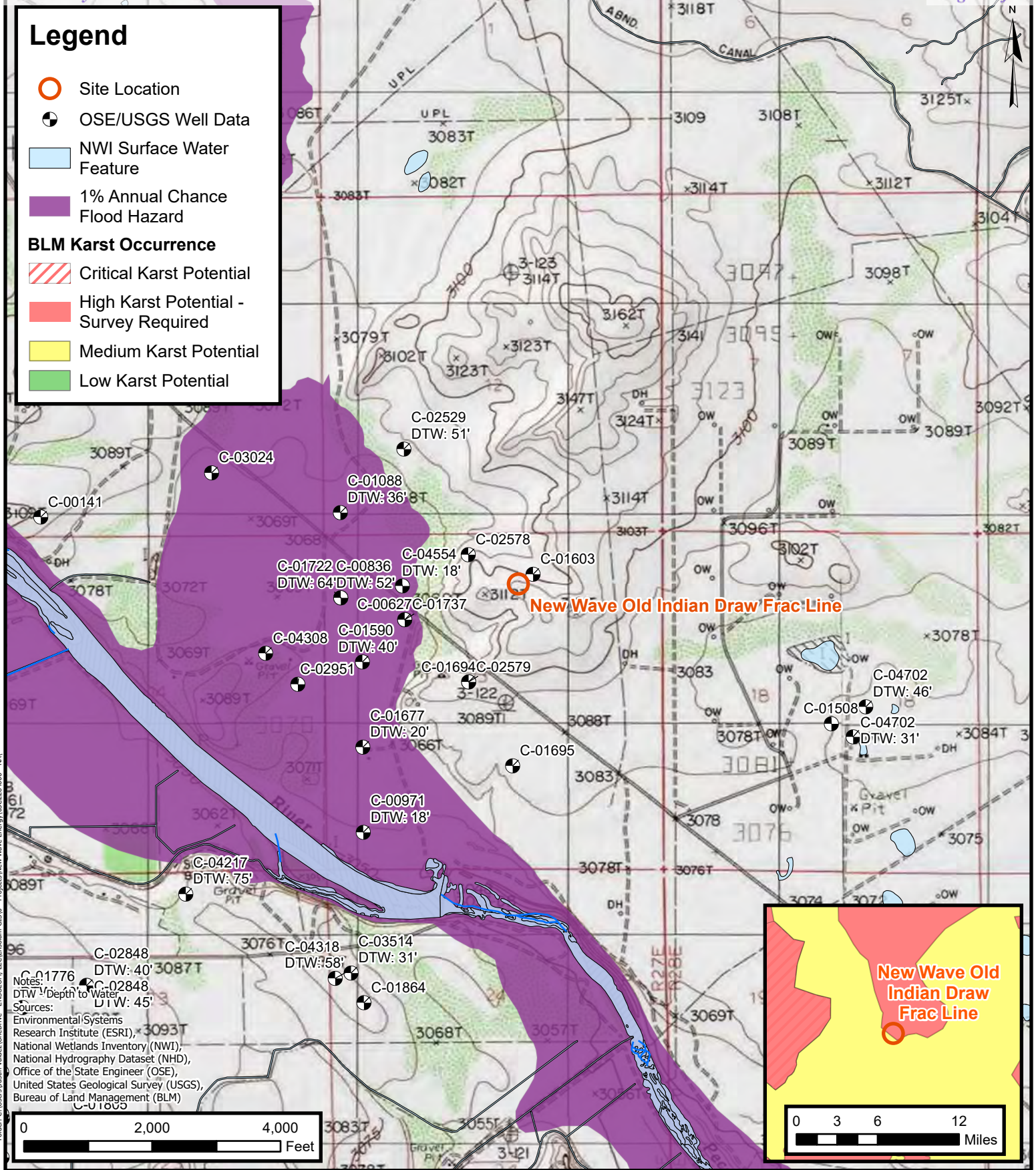
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3a	Proposed Excavation Extent – 200 Square Foot Sampling Grid
Figure 3b	Proposed Excavation Extent – 400 Square Foot Sampling Grid
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation





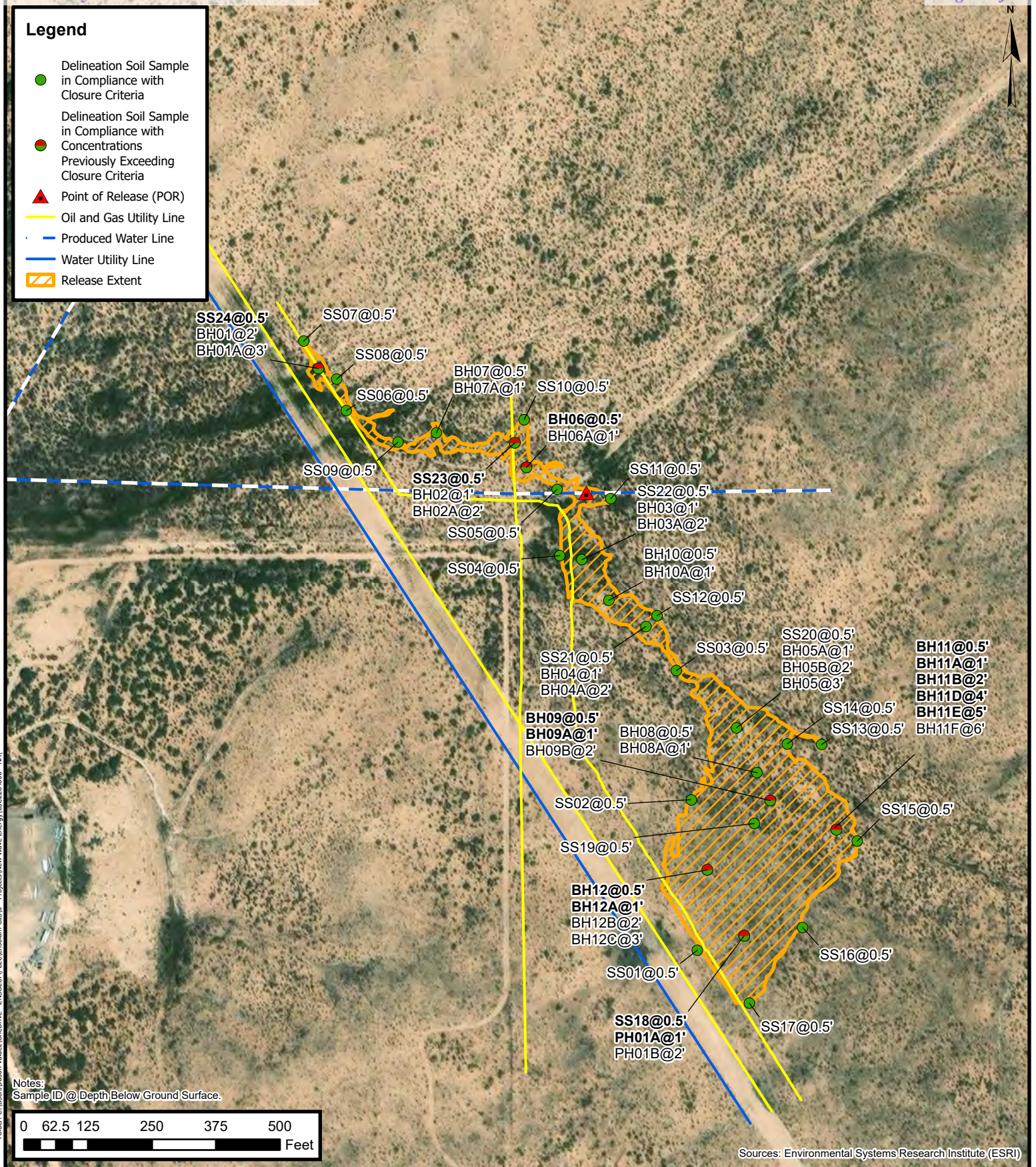
FIGURES



**Site Receptor Map**  
New Wave Energy  
New Wave Old Indian Draw Frac Line  
Incident Number: NAPP2505952408  
Unit B, Section 13, T 22S, R 27E  
Eddy County, New Mexico

**FIGURE**  
**1**





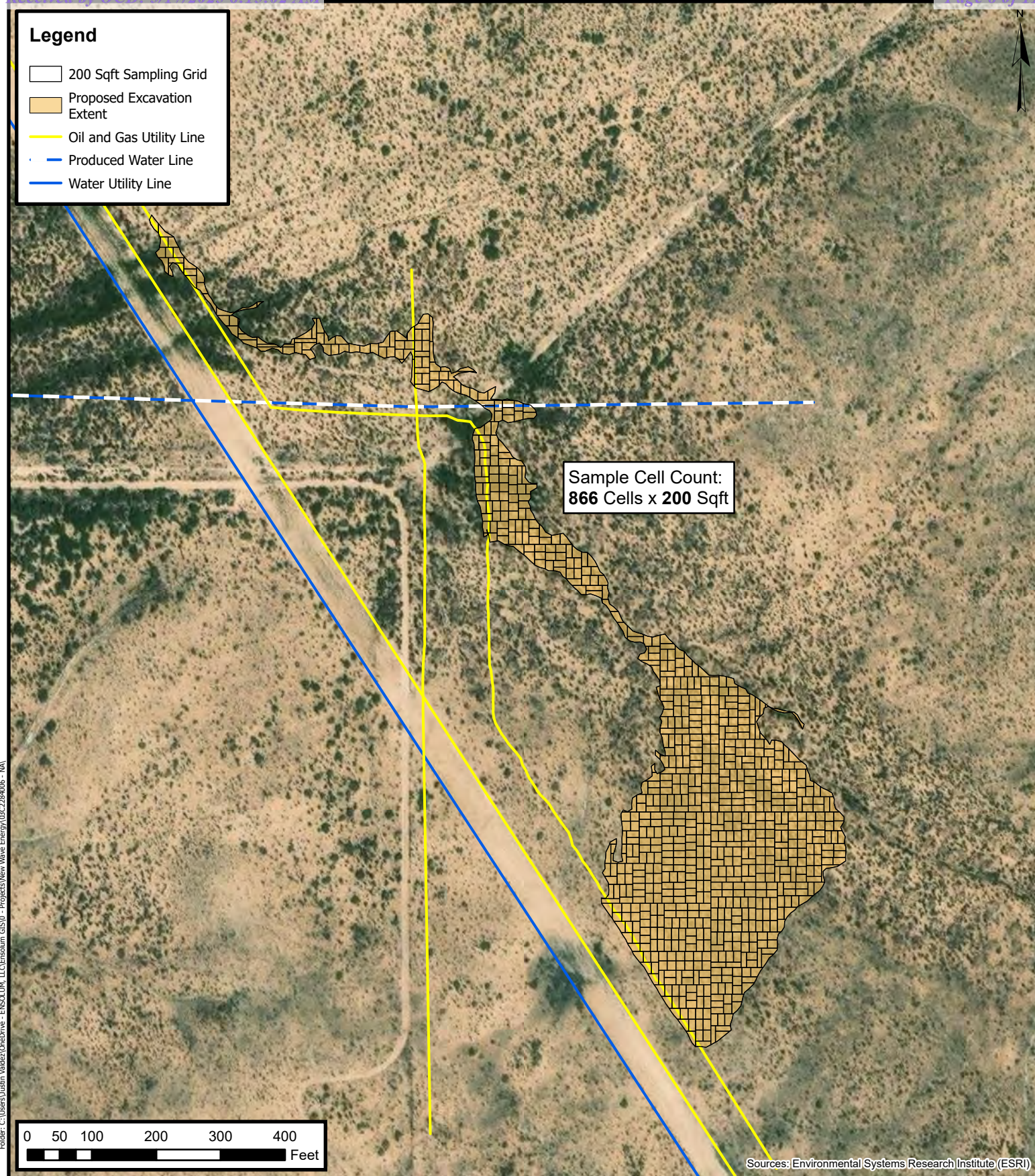
## Delineation Soil Sample Locations

New Wave Energy  
New Wave Old Indian Draw Frac Line  
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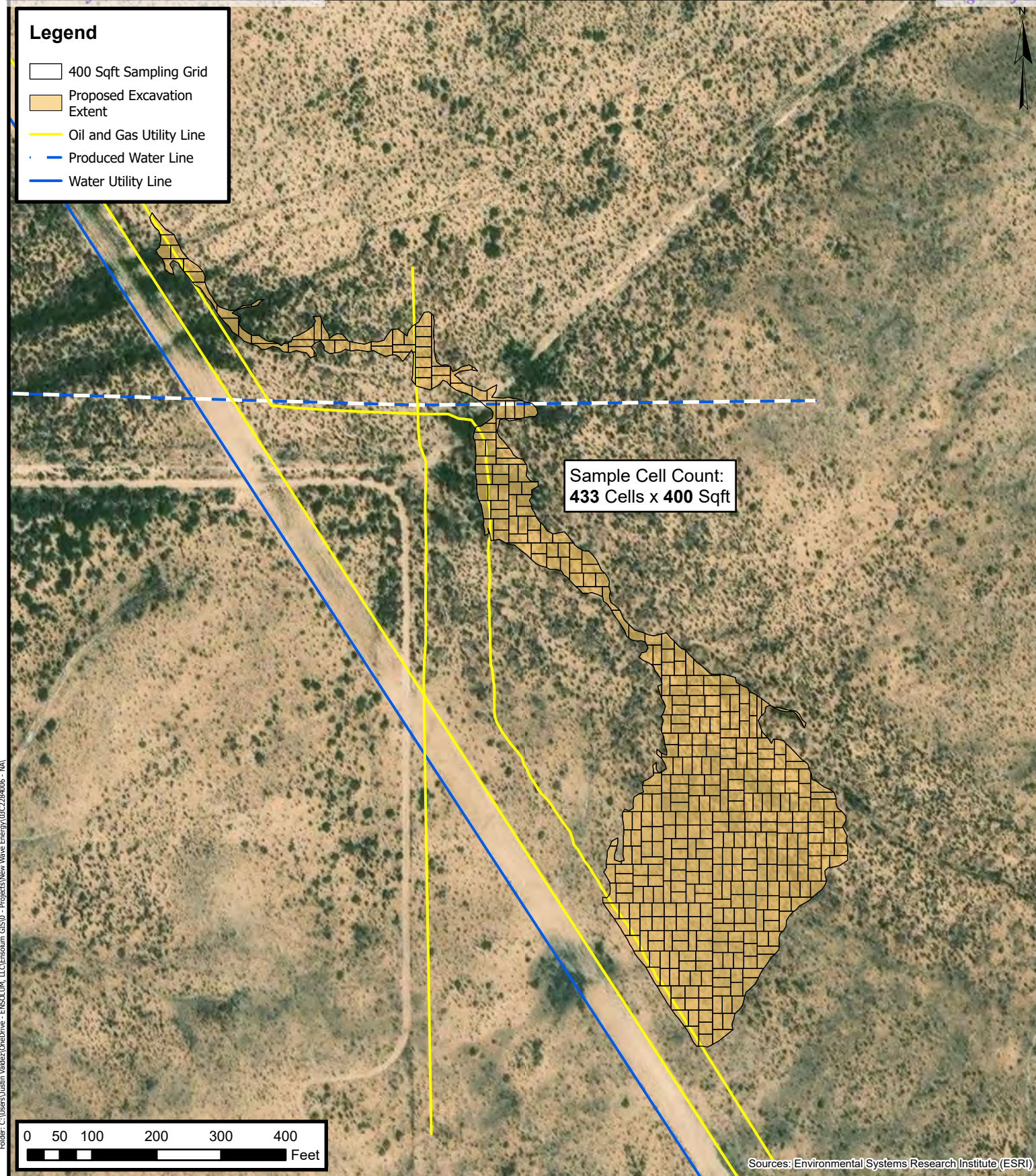
FIGURE

2













TABLES





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 New Wave Old Indian Draw Frac Line  
 New Wave Energy  
 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 I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS05	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS06	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS08	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS09	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS10	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS11	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS12	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS13	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS14	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS15	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS16	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS17	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS18	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,600
PH01A	05/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,560
PH01B	05/05/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SS 19	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS20	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH05A	04/15/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05B	04/15/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH 05	04/11/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SS 21	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH 04	04/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH 04A	04/11/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS 22	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH 03	04/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH 03A	04/11/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS23	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	720
BH 02	04/11/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH 02A	04/11/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS 24	04/09/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,840
BH 01	04/11/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 New Wave Old Indian Draw Frac Line  
 New Wave Energy  
 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 I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
BH 01A	04/11/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
BH06	04/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>1,060</b>
BH06A	04/14/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH07	04/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH07A	04/14/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
BH08	04/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH08A	04/14/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH09	04/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>6,480</b>
BH09A	04/15/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>5,120</b>
BH09B	04/15/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
BH10	04/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH10A	04/15/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH11	04/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>7,040</b>
BH11A	04/15/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>5,600</b>
BH11B	04/15/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>4,720</b>
BH11D	05/05/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>4,800</b>
BH11E	05/05/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>864</b>
BH11F	04/15/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
BH12	04/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>7,360</b>
BH12A	05/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>4,040</b>
BH12B	05/05/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
BH12C	05/05/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288

## 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 I 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

Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1		WELL TAG ID NO. 20EEB		OSE FILE NO(S). C-4554		
	WELL OWNER NAME(S) Patrick F Edeal				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 406 W Riverside				CITY Carlsbad	STATE NM	
					ZIP 88220		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 23	SECONDS 53.0	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE 104	8	50.6	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Well across Refinery Rd. from entrance to Edcon Farm.							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1348		NAME OF LICENSED DRILLER Clinotn E Taylor			NAME OF WELL DRILLING COMPANY Taylor Water Well Service	
	DRILLING STARTED 11/23/2021	DRILLING ENDED 12/9/2021	DEPTH OF COMPLETED WELL (FT) 70	BORE HOLE DEPTH (FT) 80	DEPTH WATER FIRST ENCOUNTERED (FT) 18		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 10.5		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
	+1.5	22	12 1/4	PVC	Glue Joint 7 1/4"	6	.28
	22	30	8 3/4	PVC	Glue Joint 7 1/4"	6	.28
	30	50	8 3/4	PVC	Glue Joint 7 1/4"	6	.28
50	70	8 3/4	PVC	Glue Joint 7 1/4"	6	.28	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					
	0	22	12 1/4	12 Sacks Bentonite Chips / 13 Sacks 20% Bentontonite Grout		Dump+Tremie	
	22	70	8 3/4	2 Yards 3 /8" Pea Gravel		Dump	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4554	POD NO. 1	TRN NO. 699581
LOCATION 1.1.4 22S-27E-13	WELL TAG ID NO. 20EEB	PAGE 1 OF 2




4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Silty Soil	Y ✓ N	
	6	18	12	Clay: rd, slty	Y ✓ N	
	18	20	2	Sand+Gravel: rd fn grn sand, 1/8"-1/2" gravel, yel brn,brn,gry	✓ Y N	5.00
	20	34	14	Conglomerate: mott brn, gry, tn, pnk, sme sndy, lmy	✓ Y N	10.00
	34	56	22	Clay+Thin Layers of Sand+ Conglomerate	✓ Y N	10.00
	56	69	13	Conglomerate: yel brn, gry, tn, calc, sme silty, fractured drilling	✓ Y N	100.00
	69	80	11	Clay: rd, smth, stky	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 125.00	
<input type="checkbox"/> PUMP <input checked="" type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Mixed mud and circulated hole before running casing. Developed well with air. Water quality 4500 PPM TDS. Well could make more that 125 GPM, but did not run a pump test. Well will be pumped with a small solar pump.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	CE Taylor	12/29/2021 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 04/30/2019)

FILE NO. <u>E-4554</u>	POD NO. <u>1</u>	TRN NO. <u>699581</u>
LOCATION <u>11.4 22.5 27E-13</u>	WELL TAG ID NO. <u>200EB</u>	PAGE 2 OF 2



## APPENDIX B

### Photographic Log

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# Photographic Log

New Wave Energy  
New Wave Old Indian Draw Frac Line  
Eddy County, New Mexico

☉ 164°S (T) LAT: 32.400732 LON: -104.143085 ±6ft ▲ 3086ft



Ensolum, LLC

New Wave ROW  
17 Feb 2025, 15:27:30 MST

☉ 320°NW (T) LAT: 32.400435 LON: -104.142885 ±6ft ▲ 3088ft



Ensolum, LLC

New Wave ROW  
17 Feb 2025, 15:26:07 MST

Photograph: 1  
Description: Soil staining  
View: South

Date: 2/17/2025

Photograph: 2  
Description: Soil staining  
View: Northwest

Date: 2/17/2025

NW 330 0 N 30 NE 60

☉ 2°N (T) • 32.400652, -104.142943 ±3m ▲ 911m



MOC Old Indian  
11 Apr 2025, 10:57:56 AM

SE 120 150 S 180 SW 210

☉ 177°S (T) • 32.399715, -104.142245 ±6m ▲ 922m



MOC Old Indian  
11 Apr 2025, 11:48:14 AM

Photograph: 3  
Description: Delineation activities  
View: North

Date: 4/11/2025

Photograph: 4  
Description: Delineation activities  
View: Direct


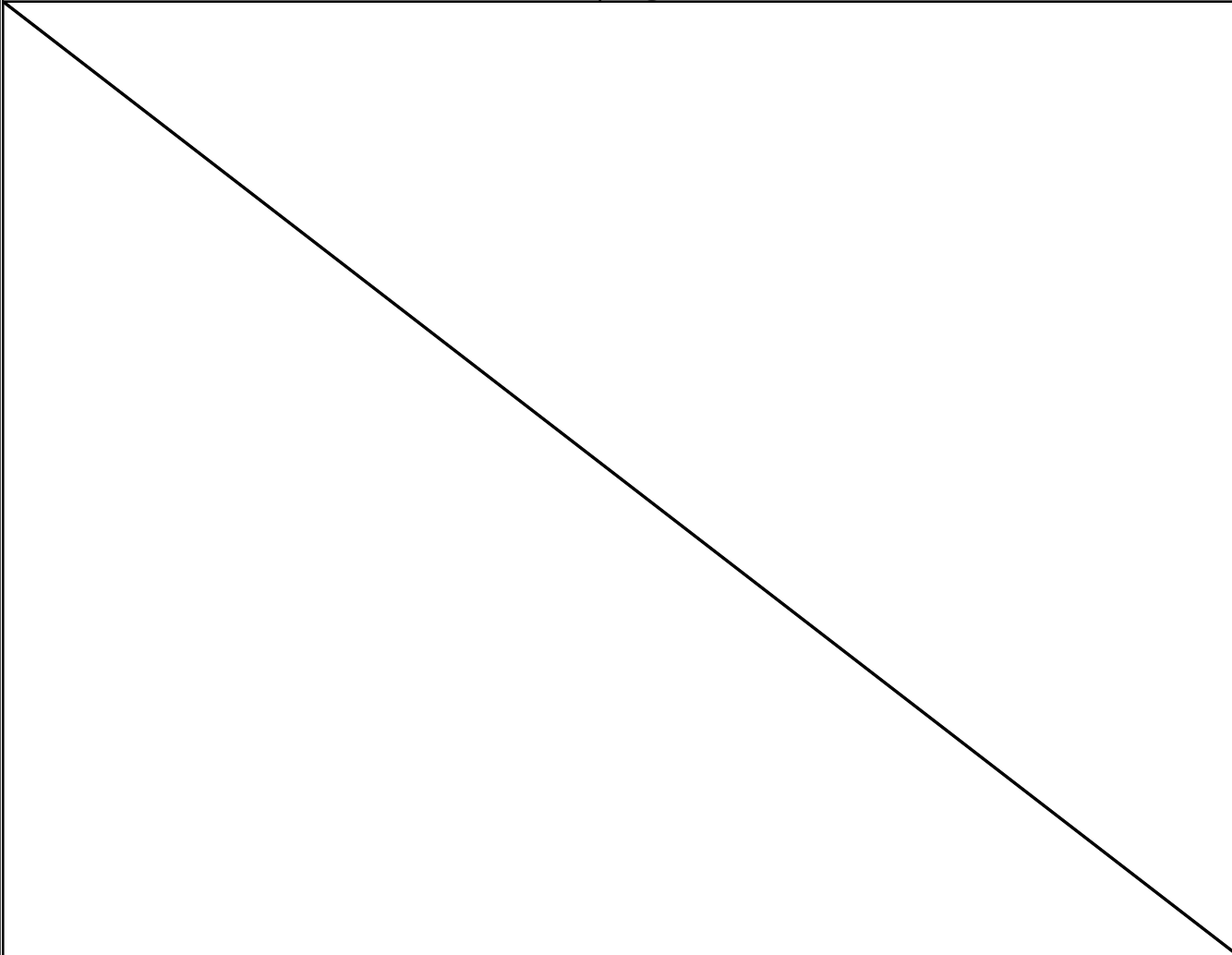
Date: 4/11/2025





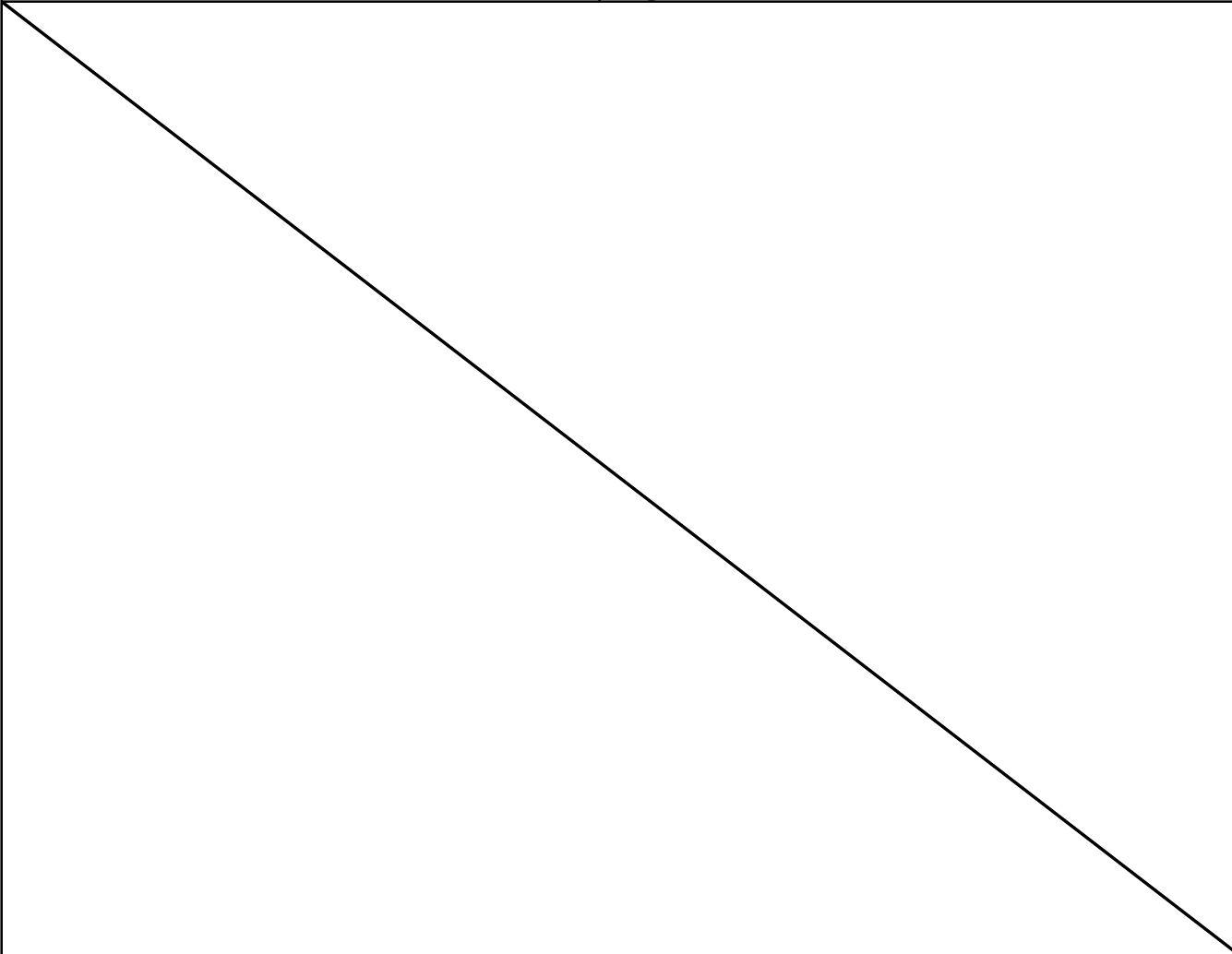
## APPENDIX C


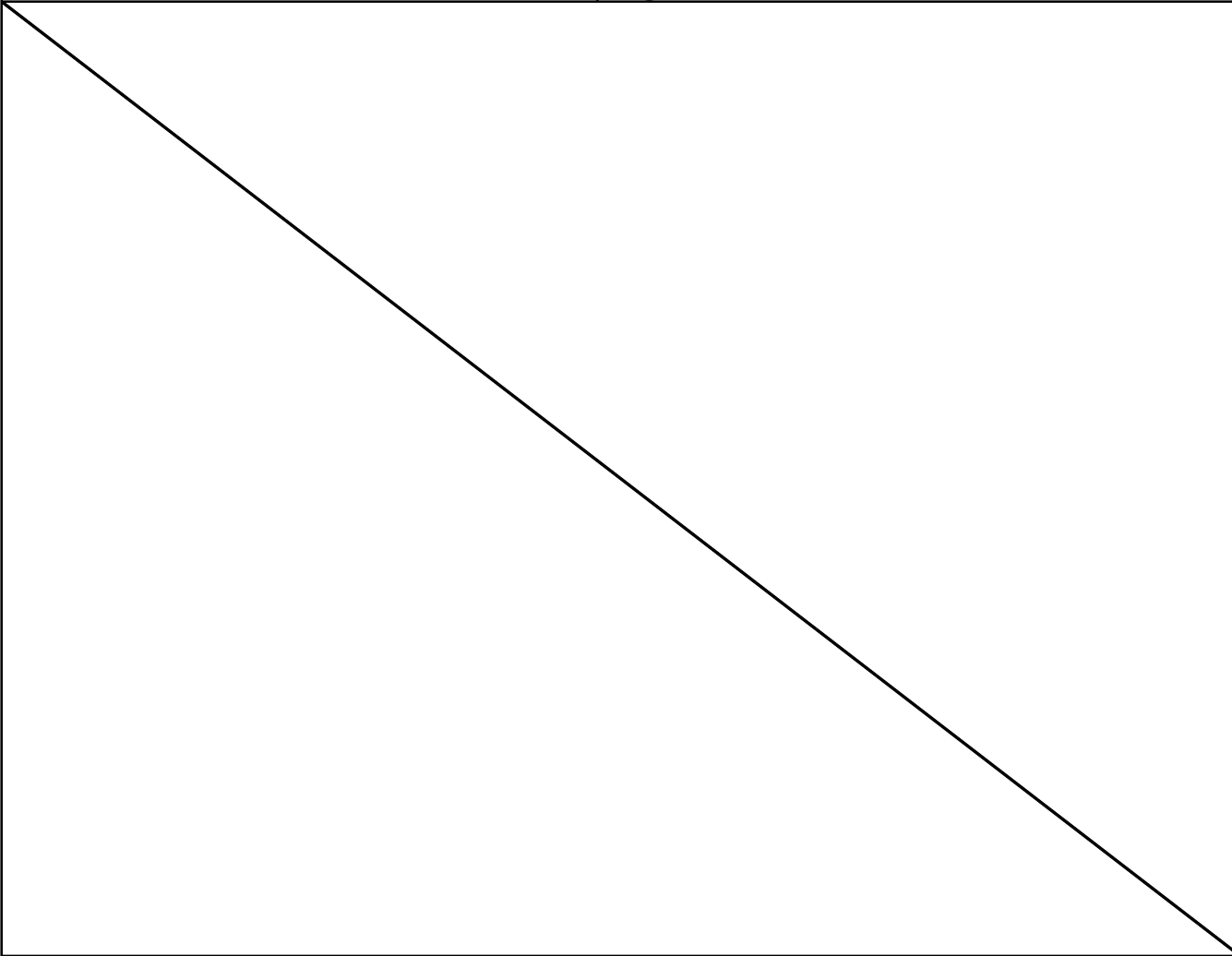
### Lithologic Soil Sampling Logs

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 <b>ENSOLUM</b>		Sample Name: SS18 / PH01		Date: 4-11-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.40065, -104.143020			Logged By: Azuka I & Jesse Dorman		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 2 feet			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	1332	3.3	N	SS23	0.5	0	SP	(0-2') SAND. Dark brown. Fine. Uniform. No staining, no odor.
Dry	280	0	N	BH02	1	1		
Dry	<173	0	N	BH02A	2	2		
Final Depth @ 2 feet								
								


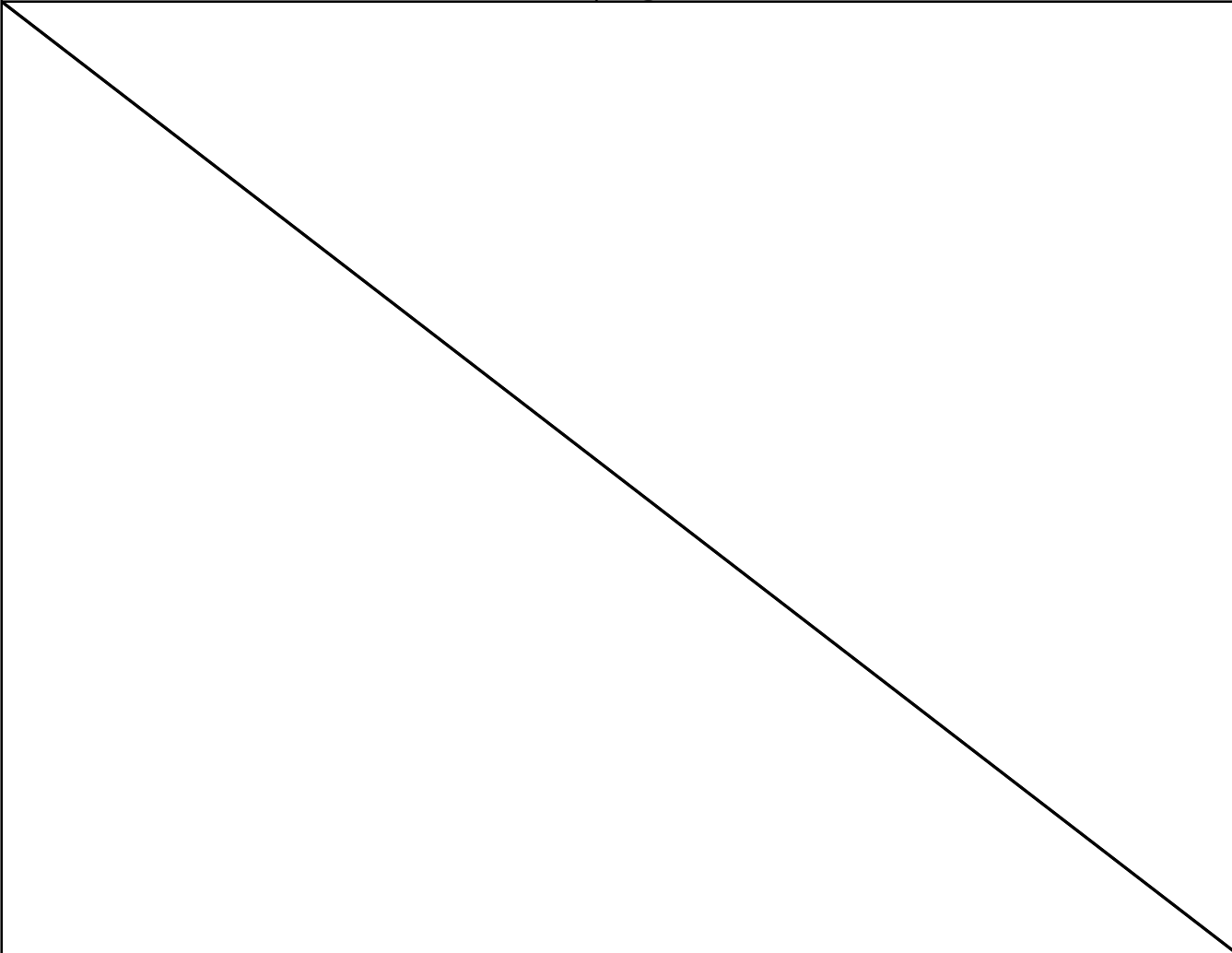
 <b>ENSOLUM</b>		Sample Name: SS24 - BH01		Date: 4-11-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.40065, -104.143020			Logged By: Azuka I & Jesse Dorman		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 2 feet			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	1332	3.3	N	SS23	0.5	0	SP	(0-2') SAND. Dark brown. Fine. Uniform. No staining, no odor.
Dry	3460	0	N	BH02	1	1		
Dry	207.2	0	N	BH02A	2	2		
Final Depth @ 2 feet								


		Sample Name: SS23 - BH02		Date: 4-11-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.40065, -104.143020			Logged By: Azuka I & Jesse Dorman		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 2 feet			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	1332	3.3	N	SS23	0.5	0	SP	(0-2') SAND. Dark brown. Fine. Uniform. No staining, no odor.
Dry	280	0	N	BH02	1	1		
Dry	<173	0	N	BH02A	2	2		
Final Depth @ 2 feet								
								


 <b>ENSOLUM</b>		Sample Name: SS22-BH03		Date: 4-11-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.400023, -104.142601			Logged By: Azuka I & Jesse Dorman		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 2 feet			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	4.8	N	SS22	0.5	0	SP	(0-2') SAND. Dark brown. Fine. Uniform. No staining, no odor.
Dry	<173	0	N	BH01	1	1		
Dry	<173	0	N	BH01A	2	2		
Final Depth @ 2 Feet								
								





 <b>ENSOLUM</b>		Sample Name: SS21-BH04		Date: 4-11-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.399661, -104.142199			Logged By: Azuka I & Jesse Dorman		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 2 feet			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<168	4.2	N	SS21	0.5	0		
Dry	<173	0	N	BH04	1	1	SP	SAND. Dark brown. Fine. Uniform. No staining, no c
Dry	<173		N	BH04A	2	2		
Final Depth @ 2 feet								

 <b>ENSOLUM</b>		Sample Name: SS20 / BH05		Date: 4-15-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.399113, -104.141630			Logged By: Evan Roe		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 2 feet			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.6	N	BH05	0.5	0	SM	(0-2') SILTY SAND. Light brown. Fine. Uniform. No staining, no odor.
	<162	0.2	N	BH05A	1	1		
Dry	<162	0.7	N	BH05B	Dry 2	2		
Final Depth @ 3 Feet								
								


 <b>ENSOLUM</b>		Sample Name: BH06		Date: 4-11-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.400521, -104.142947			Logged By: Evan Roe		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 1 foot			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	515	0.7	N	BH06	0.5	0	SP-SC	(0-1') CLAYEY SILT. Brown. Fine. Uniform. No staining, no odor.
Dry	274	0.7	N	BH06A	1	1		
Final Depth @ 1 Foot								


 <b>ENSOLUM</b>		Sample Name:		Date: 4-14-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.400710, -104.143515				Logged By: Evan Roe		Method: Hand Auger		
				Hole Diameter: 3.5in		Total Depth: 1 foot		
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	1.3	N	BH07	0.5	0	SP-SC	(0-1') CLAYEY SILT. Brown. Fine. Uniform. No staining, organic order.
Dry	<162	0.7	N	BH07A	1	1		
Final Depth @ 1 Foot								


		Sample Name: BH08		Date: 4-15-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates:			Logged By: Evan Roe		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 1 foot			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	4356	0.1	N	BH08	0.5	0	SP-SC	(0-1') SILTY CLAY. Dark brown. Fine. Uniform. No staining, no odor.
Dry	364	0.3	N	BH08A	1	1		
Final Depth @ 1 Foot								

 <b>ENSOLUM</b>		Sample Name: BH09		Date: 4-15-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.398722, -104.141421			Logged By: Evan Roe		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 2 feet			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	7644	0.7	N	BH09	0.5	0	SP-SC	(0-2') SILTY CLAY. Brown. Fine. Uniform. No staining, no odor.
Dry	7156	0.3	N	BH09A	1	1		
Dry	235	0.5	N	BH09B	2	2		
Final Depth @ 2 Feet								



 <b>ENSOLUM</b>		Sample Name: BH10		Date: 4-15-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.399803, -104.142432			Logged By: Evan Roe		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 1 foot			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	<162	0.4	N	BH10	0.5	0	SP-SC	(0-1') SILTY CLAY. Brown. Fine. Uniform. No staining, no odor.
Dry	<162	0.4	N	BH10A	1	1		
Final Depth @ 1 Foot								

		Sample Name: BH11		Date: 4-15-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.397993, -104.141590				Logged By: Evan Roe				
				Method: Hand Auger				
				Hole Diameter: 3.5in				
				Total Depth: 6 feet				
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry	9878	0.7	N	BH11	0.5			
Dry	6602	1.1	N	BB11A	1	1		(0-2') SILTY CLAY. Brown. Fine. Uniform. No staining, no odor.
Dry	6087	1	N	BH11B	2	2		
Dry	9111	0.1		BH11C	3	3	SP-SC	( 3-4') Brown, silty clay. No odor.
Dry	6087	0.1		BH11D	4	4		
Dry	767	0		BH11E	5	5		(5-6') SILTY CLAY. Brown. Fine. Uniform. No staining, no odor.
Dry	274	0.1		BH11F	6	6		
						Final Depth @ 6 Feet		

 <b>ENSOLUM</b>		Sample Name: BH12		Date: 4-15-25				
		Site Name: New Wave Old Indian Draw Frac Line						
		Incident Number: nAPP2505952408						
		Job Number: 03C2284006						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.398354, -104.141826			Logged By: Evan Roe		Method: Hand Auger			
			Hole Diameter: 3.5in		Total Depth: 6 feet			
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. 40% correction factor for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry	274	0.1	N	BH12	0.5			
Dry	3589	0.1	N	BB12A	1	1	SP-SC	(0-2') SILTY CLAY. Brown. Fine. Uniform. No staining, no odor.
Dry	767	0.0	N	BH12B	2	2		
Dry	274	0.1	N	BH12C	3	3		
						Final Depth @ 3 Feet		



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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April 14, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MOC OLD INDIAN

Enclosed are the results of analyses for samples received by the laboratory on 04/09/25 16:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/09/2025	Sampling Date:	04/09/2025
Reported:	04/14/2025	Sampling Type:	Soil
Project Name:	MOC OLD INDIAN	Sampling Condition:	Cool & Intact
Project Number:	03C2284006	Sample Received By:	Alyssa Parras
Project Location:	NEW WAVE 32.3978530, -104.1417240		

**Sample ID: SS 01 (H252129-01)**

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	04/10/2025	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87	
Total BTEX	<0.300	0.300	04/10/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 02 (H252129-02)**

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	04/10/2025	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.3 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 03 (H252129-03)**

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	04/10/2025	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 04 (H252129-04)**

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	04/10/2025	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 05 (H252129-05)**

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	04/10/2025	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 06 (H252129-06)**

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	04/10/2025	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 07 (H252129-07)**

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	04/10/2025	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.7 % 40.6-153

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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 08 (H252129-08)**

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	04/10/2025	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 09 (H252129-09)**

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	04/10/2025	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.7 % 40.6-153

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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 10 (H252129-10)**

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	04/10/2025	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/10/2025	ND	2.19	110	2.00	5.65		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.41	120	2.00	7.85		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	7.28	121	6.00	7.87		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.0 % 40.6-153

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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 11 (H252129-11)**

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	04/10/2025	ND	2.14	107	2.00	0.0344	
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106	
Total BTEX	<0.300	0.300	04/10/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 12 (H252129-12)**

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	04/10/2025	ND	2.14	107	2.00	0.0344		
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106		
Total BTEx	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 13 (H252129-13)**

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	04/10/2025	ND	2.14	107	2.00	0.0344		
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 14 (H252129-14)**

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	04/10/2025	ND	2.14	107	2.00	0.0344		
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106		
Total BTEx	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 15 (H252129-15)**

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	04/10/2025	ND	2.14	107	2.00	0.0344		
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 76.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.6 % 40.6-153

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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 16 (H252129-16)**

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	04/10/2025	ND	2.14	107	2.00	0.0344		
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 17 (H252129-17)**

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	04/10/2025	ND	2.14	107	2.00	0.0344	
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106	
Total BTEX	<0.300	0.300	04/10/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.6 % 40.6-153

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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 18 (H252129-18)**

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	04/10/2025	ND	2.14	107	2.00	0.0344	
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106	
Total BTEX	<0.300	0.300	04/10/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12600	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.8 % 40.6-153

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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 19 (H252129-19)**

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	04/10/2025	ND	2.14	107	2.00	0.0344		
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106		
Total BTEx	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 77.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.9 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 20 (H252129-20)**

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	04/10/2025	ND	2.14	107	2.00	0.0344		
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106		
Total BTEx	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	211	106	200	0.472	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	205	103	200	0.252	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.9 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 21 (H252129-21)**

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	04/10/2025	ND	2.14	107	2.00	0.0344	
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106	
Total BTEX	<0.300	0.300	04/10/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/10/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.6 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 22 (H252129-22)**

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	04/10/2025	ND	2.14	107	2.00	0.0344		
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 23 (H252129-23)**

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	04/10/2025	ND	2.14	107	2.00	0.0344	
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106	
Total BTEX	<0.300	0.300	04/10/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	04/10/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/09/2025  
 Reported: 04/14/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 24 (H252129-24)**

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	04/10/2025	ND	2.14	107	2.00	0.0344		
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	04/10/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensolum, LLC</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>														
Project Manager: <u>JEREMY REICH</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>BTEX</div> <div>TPH</div> <div>CHLORIDE</div> </div>														
Address: <u>601 N MARIENFELD</u>				Company: <u>Ensolum, LLC</u>																		
City: <u>MIDLAND</u> State: <u>TX</u> Zip: <u>79701</u>				Attn: <u>Jeremy Reich</u>																		
Phone #: <u>432 296 0627</u> Fax #: <u>Jreich@ensolum.com</u>				Address: <u>601 N Marienfeld</u>																		
Project #: <u>03C2284006</u> Project Owner: <u>NEN NAVE</u>				City: <u>MIDLAND</u>																		
Project Name: <u>MOC OLD INDIAN</u>				State: <u>TX</u> Zip: <u>75701</u>																		
Project Location: <u>32.3978530, -104.1417240</u>				Phone #: <u>432 296 0627</u>																		
Sampler Name: <u>Udeh Aguka</u>				Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME								
<u>4252109</u>	<u>SS01</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>4/9/25</u>	<u>1046</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>1</u>	<u>SS02</u>													<u>1048</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>2</u>	<u>SS03</u>													<u>1048</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>3</u>	<u>SS04</u>													<u>1050</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>4</u>	<u>SS05</u>													<u>1052</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>5</u>	<u>SS06</u>													<u>1054</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>6</u>	<u>SS07</u>													<u>1058</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>7</u>	<u>SS08</u>													<u>1100</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>8</u>	<u>SS09</u>													<u>1102</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>9</u>	<u>SS10</u>	<u>9</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>4/9/25</u>	<u>1104</u>	<u>X</u>	<u>X</u>	<u>X</u>					

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Relinquished By: <u>[Signature]</u>		Date: <u>4/9/25</u>	Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: <u>4/9/25</u>		Time: <u>11:40</u>	Received By: <u>[Signature]</u>		All Results are emailed. Please provide Email address:	
		Date:			REMARKS:	
		Time:				
Delivered By: (Circle One)	Observed Temp. °C <u>4.8</u>	Sample Condition	CHECKED BY: (Initials) <u>AD</u>	Turnaround Time:	Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>5.1</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Thermometer ID #140	<u>72485</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
				Correction Factor +0.3°C		Observed Temp. °C
						Corrected Temp. °C

FORM-006 R 3.0 02/12/23

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





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ENSOLUM, LLC				BILL TO				ANALYSIS REQUEST													
Project Manager: JEREMY REICH				P.O. #:																	
Address: 601 N MARIENFELD				Company: ENSOLUM, LLC																	
City: MIDLAND State: TX Zip: 79701				Attn: Jeremy Reich																	
Phone #: 432 296 0627 Fax #: Jreich@ensolum.com				Address: 601 N Marienfeld																	
Project #: 03C2284006 Project Owner: NEN NAVE				City: Midland																	
Project Name: MOC OLD INDIAN				State: TX Zip: 79701																	
Project Location: 32.8978530, -104.1417240				Phone #: 432 296 0627																	
Sampler Name: Udeh Azuka				Fax #:																	
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	TPH	CHLORIDE				
H852129	SS11	9	1			X					X		4/9/25	1330	X	X	X				
11	SS12		1											1108	X	X	X				
12	SS13													7110	X	X	X				
13	SS14													1332	X	X	X				
14	SS15													1334	X	X	X				
15	SS16													1176	X	X	X				
16	SS17													1336	X	X	X				
17	SS18													1120	X	X	X				
18	SS19													1130	X	X	X				
19	SS20	9	1			X					X		4/9/25	1338	X	X	X				
20																					

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Relinquished By:	Date: 4/9/25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: 11:44	Received By:	All Results are emailed. Please provide Email address:
Date: 4/9/25	Time:		REMARKS:
Delivered By: (Circle One)	Observed Temp. °C 48.5	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C 5.17	CHECKED BY: (Initials)	Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #140 Correction Factor +0.3°C
			Observed Temp. °C 72.45 Corrected Temp. °C

FORM-006 R 3.0 02/12/20

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





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ENSOLUM, LLC				BILL TO				ANALYSIS REQUEST																											
Project Manager: JEREMY REICH				P.O. #:																															
Address: 601 N MARIENFELD				Company: ENSOLUM, LLC																															
City: MIDLAND State: TX Zip: 79701				Attn: Jeremy Reich																															
Phone #: 432 296 0627 Fax #: Jreich@ensolum.com				Address: 601 N Marienfeld																															
Project #: 03C2284006 Project Owner: NEN NAVE				City: Midland																															
Project Name: MOC OLD INDIAN				State: TX Zip: 79701																															
Project Location: 32-8978530, -104-1417240				Phone #: 432 296 0627																															
Sampler Name: Udeh Azuka				Fax #:																															
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL:		OTHER:		DATE		TIME		BTX		TPH		CHLORIDE	
H252109		SS21		9		1						X										X				4/9/25		1340		X		X		X	
01		SS22																										7342		X		X		X	
02		SS23																										1344		X		X		X	
03		SS24																										1346		X		X		X	
04																														X		X		X	
		NFE																												X		X		X	
		4/5/25																												X		X		X	
																														X		X		X	

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Relinquished By:		Date: 4/9/25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 11:44		Received By:		All Results are emailed. Please provide Email address:	
Relinquished By:		Date: 4/9/25		Received By:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C 48.2		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 51.2		CHECKED BY: (Initials) AS		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
						Thermometer ID #140 Correction Factor +0.3°C	
						724HS	

FORM-000 R 3.0 02/12/25

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



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April 17, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MOC OLD INDIAN

Enclosed are the results of analyses for samples received by the laboratory on 04/14/25 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/14/2025	Sampling Date:	04/11/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MOC OLD INDIAN	Sampling Condition:	Cool & Intact
Project Number:	03C2284006	Sample Received By:	Tamara Oldaker
Project Location:	NEW WAVE 32.3978530, -104.1417240		

**Sample ID: BH 01 2' (H252198-01)**

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	04/15/2025	ND	1.99	99.7	2.00	1.98	
Toluene*	<0.050	0.050	04/15/2025	ND	2.12	106	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	2.34	117	2.00	4.34	
Total Xylenes*	<0.150	0.150	04/15/2025	ND	7.12	119	6.00	2.69	
Total BTEX	<0.300	0.300	04/15/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/15/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2025	ND	200	100	200	0.216	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	192	95.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.7 % 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  
JEREMY REICH  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 04/14/2025  
Reported: 04/17/2025  
Project Name: MOC OLD INDIAN  
Project Number: 03C2284006  
Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/11/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BH 01A 3' (H252198-02)**

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	04/15/2025	ND	1.99	99.7	2.00	1.98		
Toluene*	<0.050	0.050	04/15/2025	ND	2.12	106	2.00	4.49		
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	2.34	117	2.00	4.34		
Total Xylenes*	<0.150	0.150	04/15/2025	ND	7.12	119	6.00	2.69		
Total BTEX	<0.300	0.300	04/15/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/15/2025	ND	432	108	400	3.77	

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	04/15/2025	ND	200	100	200	0.216	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	192	95.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.1 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/14/2025  
 Reported: 04/17/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/11/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 02 1' (H252198-03)**

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	04/15/2025	ND	1.99	99.7	2.00	1.98		
Toluene*	<0.050	0.050	04/15/2025	ND	2.12	106	2.00	4.49		
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	2.34	117	2.00	4.34		
Total Xylenes*	<0.150	0.150	04/15/2025	ND	7.12	119	6.00	2.69		
Total BTEX	<0.300	0.300	04/15/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/15/2025	ND	432	108	400	3.77		

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	04/15/2025	ND	188	94.2	200	4.12	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	178	89.1	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/14/2025  
 Reported: 04/17/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/11/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 02A 2' (H252198-04)**

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	04/15/2025	ND	1.99	99.7	2.00	1.98	
Toluene*	<0.050	0.050	04/15/2025	ND	2.12	106	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	2.34	117	2.00	4.34	
Total Xylenes*	<0.150	0.150	04/15/2025	ND	7.12	119	6.00	2.69	
Total BTEx	<0.300	0.300	04/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	96.0	16.0	04/15/2025	ND	432	108	400	3.77	

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	04/15/2025	ND	188	94.2	200	4.12	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	178	89.1	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 69.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/14/2025  
 Reported: 04/17/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/11/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 03 1' (H252198-05)**

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	04/15/2025	ND	1.99	99.7	2.00	1.98		
Toluene*	<0.050	0.050	04/15/2025	ND	2.12	106	2.00	4.49		
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	2.34	117	2.00	4.34		
Total Xylenes*	<0.150	0.150	04/15/2025	ND	7.12	119	6.00	2.69		
Total BTEX	<0.300	0.300	04/15/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/15/2025	ND	432	108	400	3.77		

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	04/15/2025	ND	188	94.2	200	4.12	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	178	89.1	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/14/2025  
 Reported: 04/17/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/11/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 03A 2' (H252198-06)**

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	04/15/2025	ND	1.99	99.7	2.00	1.98		
Toluene*	<0.050	0.050	04/15/2025	ND	2.12	106	2.00	4.49		
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	2.34	117	2.00	4.34		
Total Xylenes*	<0.150	0.150	04/15/2025	ND	7.12	119	6.00	2.69		
Total BTEx	<0.300	0.300	04/15/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/15/2025	ND	432	108	400	3.77	

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	04/15/2025	ND	188	94.2	200	4.12	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	178	89.1	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.4 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/14/2025  
 Reported: 04/17/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/11/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 04 1' (H252198-07)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2025	ND	1.99	99.7	2.00	1.98		
Toluene*	<0.050	0.050	04/15/2025	ND	2.12	106	2.00	4.49		
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	2.34	117	2.00	4.34		
Total Xylenes*	<0.150	0.150	04/15/2025	ND	7.12	119	6.00	2.69		
Total BTX	<0.300	0.300	04/15/2025	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	04/15/2025	ND	432	108	400	3.77		

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	04/15/2025	ND	188	94.2	200	4.12	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	178	89.1	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 73.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.1 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/14/2025  
 Reported: 04/17/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/11/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 04A 2' (H252198-08)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2025	ND	1.99	99.7	2.00	1.98	
Toluene*	<0.050	0.050	04/15/2025	ND	2.12	106	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	2.34	117	2.00	4.34	
Total Xylenes*	<0.150	0.150	04/15/2025	ND	7.12	119	6.00	2.69	
Total BTX	<0.300	0.300	04/15/2025	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	16.0	16.0	04/15/2025	ND	432	108	400	3.77	

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	04/15/2025	ND	188	94.2	200	4.12	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	178	89.1	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 74.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.5 % 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  
JEREMY REICH  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 04/14/2025  
Reported: 04/17/2025  
Project Name: MOC OLD INDIAN  
Project Number: 03C2284006  
Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/11/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BH 05 3' (H252198-09)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2025	ND	1.99	99.7	2.00	1.98		
Toluene*	<0.050	0.050	04/15/2025	ND	2.12	106	2.00	4.49		
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	2.34	117	2.00	4.34		
Total Xylenes*	<0.150	0.150	04/15/2025	ND	7.12	119	6.00	2.69		
Total BTX	<0.300	0.300	04/15/2025	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	304	16.0	04/15/2025	ND	432	108	400	3.77		

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	04/15/2025	ND	188	94.2	200	4.12	
DRO >C10-C28*	<10.0	10.0	04/15/2025	ND	178	89.1	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/15/2025	ND					

Surrogate: 1-Chlorooctane 57.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 53.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: Jeremy Reich				P.O. #:																	
Address: 601 N Marienfeld Street, Suite 400				Company: Ensolum, LLC																	
City: Midland State: TX Zip: 79701				Attn: Jeremy Reich																	
Phone #: 432-296-0627 Fax #:				Address: 3122 National Parks Hwy																	
Project #: 03C2284006 Project Owner: New Wave energy				City: Carlsbad																	
Project Name: MOC Old Indian				State: NM Zip: 88220																	
Project Location: 32.3978530, -104.1417240				Phone #:																	
Sampler Name: Jesse Dorman				Fax #:																	
Lab I.D.	Sample I.D.	Depth (feet)	(G/RAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500										
H252198	Bh01	2	6	GROUNDWATER	✓		4/11/25	9:17													
1	Bh01A	3	1	WASTEWATER				9:27													
2	Bh02	1	1	SOIL				10:10													
3	Bh02A	2	1	OIL				10:15													
4	Bh03	2	1	SLUDGE				11:00													
5	Bh03A	2	1	OTHER				11:05													
6	Bh04	1	1	ACID/BASE				11:30													
7	Bh04A	2	1	ICE / COOL				11:35													
8	Bh05	3	1	OTHER				12:42													
9																					

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Relinquished By:	Date: 4/14/25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 12:10			All Results are emailed. Please provide Email address: JReich@ensolum.com	
Relinquished By:	Date:	Received By:	PBelill@ensolum.com, TMorrissey@ensolum.com,	
	Time:		THillard@ensolum.com, KThomason@ensolum.com	
Delivered By: (Circle One)	Observed Temp. °C 0.8	Sample Condition Cool Intact	Turnaround Time: 4/14/25 Standard	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C 1.1	<input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #13	Cool Intact
			Correction Factor -0.5	<input type="checkbox"/> Yes <input type="checkbox"/> No
			72hr	Observed Temp. °C
			40.3°C TO 4/14/25	Corrected Temp. °C

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



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

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April 22, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MOC OLD INDIAN

Enclosed are the results of analyses for samples received by the laboratory on 04/15/25 14:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/15/2025	Sampling Date:	04/14/2025
Reported:	04/22/2025	Sampling Type:	Soil
Project Name:	MOC OLD INDIAN	Sampling Condition:	Cool & Intact
Project Number:	03C2284006	Sample Received By:	Tamara Oldaker
Project Location:	NEW WAVE 32.3978530, -104.1417240		

**Sample ID: BH 06 0.5' (H252239-01)**

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	04/16/2025	ND	2.23	111	2.00	2.07		
Toluene*	<0.050	0.050	04/16/2025	ND	2.16	108	2.00	1.26		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.24	112	2.00	0.718		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.76	113	6.00	0.919		
Total BTEx	<0.300	0.300	04/16/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	201	101	200	5.54	
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	194	97.1	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/15/2025  
 Reported: 04/22/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 06 A 1' (H252239-02)**

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	04/16/2025	ND	2.23	111	2.00	2.07		
Toluene*	<0.050	0.050	04/16/2025	ND	2.16	108	2.00	1.26		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.24	112	2.00	0.718		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.76	113	6.00	0.919		
Total BTEX	<0.300	0.300	04/16/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	201	101	200	5.54	
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	194	97.1	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/15/2025  
 Reported: 04/22/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 07 0.5' (H252239-03)**

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	04/16/2025	ND	2.23	111	2.00	2.07		
Toluene*	<0.050	0.050	04/16/2025	ND	2.16	108	2.00	1.26		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.24	112	2.00	0.718		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.76	113	6.00	0.919		
Total BTEX	<0.300	0.300	04/16/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.6	200	4.05	
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	185	92.7	200	4.74	
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/15/2025  
 Reported: 04/22/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 07 A 1' (H252239-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2025	ND	2.23	111	2.00	2.07	
Toluene*	<0.050	0.050	04/16/2025	ND	2.16	108	2.00	1.26	
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.24	112	2.00	0.718	
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.76	113	6.00	0.919	
Total BTX	<0.300	0.300	04/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/16/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.6	200	4.05	
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	185	92.7	200	4.74	
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.2 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/15/2025  
 Reported: 04/22/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 08 0.5' (H252239-05)**

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	04/16/2025	ND	2.23	111	2.00	2.07		
Toluene*	<0.050	0.050	04/16/2025	ND	2.16	108	2.00	1.26		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.24	112	2.00	0.718		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.76	113	6.00	0.919		
Total BTEx	<0.300	0.300	04/16/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.6	200	4.05	
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	185	92.7	200	4.74	
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/15/2025  
 Reported: 04/22/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 08 A 1' (H252239-06)**

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	04/16/2025	ND	2.23	111	2.00	2.07		
Toluene*	<0.050	0.050	04/16/2025	ND	2.16	108	2.00	1.26		
Ethylbenzene*	<0.050	0.050	04/16/2025	ND	2.24	112	2.00	0.718		
Total Xylenes*	<0.150	0.150	04/16/2025	ND	6.76	113	6.00	0.919		
Total BTEX	<0.300	0.300	04/16/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/16/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	197	98.6	200	4.05	
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	185	92.7	200	4.74	
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND					

Surrogate: 1-Chlorooctane 71.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager






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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:		Date:	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		4-15-25		All Results are emailed. Please provide Email address: jreich@ensulum.com	
Relinquished By:		Time:		BBell@ensulum.com, TMorrissey@ensulum.com, THillard@ensulum.com	
		Date:	Received By:	REMARKS:	
		Time:		* Customer requested ID changes. TO. 4/15/25	
Delivered By: (Circle One)	Observed Temp. °C	1.3	Sample Condition	CHECKED BY:	Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	1.6	Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	(Initials) 	<input type="checkbox"/> Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
					Thermometer ID #13 #140 Correction Factor -0.5°C to .3°C

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



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

---

April 23, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MOC OLD INDIAN

Enclosed are the results of analyses for samples received by the laboratory on 04/16/25 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 05A 1 (H252298-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2025	ND	1.85	92.7	2.00	0.242	
Toluene*	<0.050	0.050	04/17/2025	ND	1.97	98.7	2.00	0.737	
Ethylbenzene*	<0.050	0.050	04/17/2025	ND	1.94	97.1	2.00	0.732	
Total Xylenes*	<0.150	0.150	04/17/2025	ND	6.22	104	6.00	0.281	
Total BTX	<0.300	0.300	04/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	203	101	200	0.236	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	193	96.3	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 105 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 05B 2 (H252298-02)**

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	04/17/2025	ND	1.85	92.7	2.00	0.242	
Toluene*	<0.050	0.050	04/17/2025	ND	1.97	98.7	2.00	0.737	
Ethylbenzene*	<0.050	0.050	04/17/2025	ND	1.94	97.1	2.00	0.732	
Total Xylenes*	<0.150	0.150	04/17/2025	ND	6.22	104	6.00	0.281	
Total BTEX	<0.300	0.300	04/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	203	101	200	0.236	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	193	96.3	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 09 0.5 (H252298-03)**

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	04/18/2025	ND	1.85	92.7	2.00	0.242		
Toluene*	<0.050	0.050	04/18/2025	ND	1.97	98.7	2.00	0.737		
Ethylbenzene*	<0.050	0.050	04/18/2025	ND	1.94	97.1	2.00	0.732		
Total Xylenes*	<0.150	0.150	04/18/2025	ND	6.22	104	6.00	0.281		
Total BTEX	<0.300	0.300	04/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6480	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	203	101	200	0.236	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	193	96.3	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 104 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 09A 1 (H252298-04)**

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	04/18/2025	ND	1.85	92.7	2.00	0.242		
Toluene*	<0.050	0.050	04/18/2025	ND	1.97	98.7	2.00	0.737		
Ethylbenzene*	<0.050	0.050	04/18/2025	ND	1.94	97.1	2.00	0.732		
Total Xylenes*	<0.150	0.150	04/18/2025	ND	6.22	104	6.00	0.281		
Total BTEX	<0.300	0.300	04/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	203	101	200	0.236	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	193	96.3	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 10 0.5 (H252298-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2025	ND	1.85	92.7	2.00	0.242		
Toluene*	<0.050	0.050	04/18/2025	ND	1.97	98.7	2.00	0.737		
Ethylbenzene*	<0.050	0.050	04/18/2025	ND	1.94	97.1	2.00	0.732		
Total Xylenes*	<0.150	0.150	04/18/2025	ND	6.22	104	6.00	0.281		
Total BTX	<0.300	0.300	04/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	203	101	200	0.236	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	193	96.3	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.0 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 10A 1 (H252298-06)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2025	ND	1.85	92.7	2.00	0.242		
Toluene*	<0.050	0.050	04/18/2025	ND	1.97	98.7	2.00	0.737		
Ethylbenzene*	<0.050	0.050	04/18/2025	ND	1.94	97.1	2.00	0.732		
Total Xylenes*	<0.150	0.150	04/18/2025	ND	6.22	104	6.00	0.281		
Total BTX	<0.300	0.300	04/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	203	101	200	0.236	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	193	96.3	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.6 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 11 0.5 (H252298-07)**

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	04/18/2025	ND	1.85	92.7	2.00	0.242		
Toluene*	<0.050	0.050	04/18/2025	ND	1.97	98.7	2.00	0.737		
Ethylbenzene*	<0.050	0.050	04/18/2025	ND	1.94	97.1	2.00	0.732		
Total Xylenes*	<0.150	0.150	04/18/2025	ND	6.22	104	6.00	0.281		
Total BTEx	<0.300	0.300	04/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7040	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	221	110	200	4.15	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	217	108	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.6 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 11A 1 (H252298-08)**

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	04/18/2025	ND	1.85	92.7	2.00	0.242		
Toluene*	<0.050	0.050	04/18/2025	ND	1.97	98.7	2.00	0.737		
Ethylbenzene*	<0.050	0.050	04/18/2025	ND	1.94	97.1	2.00	0.732		
Total Xylenes*	<0.150	0.150	04/18/2025	ND	6.22	104	6.00	0.281		
Total BTEx	<0.300	0.300	04/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	221	110	200	4.15	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	217	108	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.7 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 11B 2 (H252298-09)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2025	ND	1.85	92.7	2.00	0.242		
Toluene*	<0.050	0.050	04/18/2025	ND	1.97	98.7	2.00	0.737		
Ethylbenzene*	<0.050	0.050	04/18/2025	ND	1.94	97.1	2.00	0.732		
Total Xylenes*	<0.150	0.150	04/18/2025	ND	6.22	104	6.00	0.281		
Total BTX	<0.300	0.300	04/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	221	110	200	4.15	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	217	108	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.2 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/16/2025  
 Reported: 04/23/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 04/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 12 0.5 (H252298-10)**

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	04/18/2025	ND	1.85	92.7	2.00	0.242		
Toluene*	<0.050	0.050	04/18/2025	ND	1.97	98.7	2.00	0.737		
Ethylbenzene*	<0.050	0.050	04/18/2025	ND	1.94	97.1	2.00	0.732		
Total Xylenes*	<0.150	0.150	04/18/2025	ND	6.22	104	6.00	0.281		
Total BTEx	<0.300	0.300	04/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7360	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	221	110	200	4.15	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	217	108	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.8 % 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

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager







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

April 23, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OLD LOBO

Enclosed are the results of analyses for samples received by the laboratory on 04/16/25 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	04/16/2025	Sampling Date:	04/15/2025
Reported:	04/23/2025	Sampling Type:	Soil
Project Name:	OLD LOBO	Sampling Condition:	Cool & Intact
Project Number:	03C2284007	Sample Received By:	Shari Cisneros
Project Location:	NEW WAVE 32.444437-103.688210		

**Sample ID: BH 09B 2 (H252299-01)**

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	04/18/2025	ND	1.85	92.7	2.00	0.242		
Toluene*	<0.050	0.050	04/18/2025	ND	1.97	98.7	2.00	0.737		
Ethylbenzene*	<0.050	0.050	04/18/2025	ND	1.94	97.1	2.00	0.732		
Total Xylenes*	<0.150	0.150	04/18/2025	ND	6.22	104	6.00	0.281		
Total BTEX	<0.300	0.300	04/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/17/2025	ND	416	104	400	3.77		

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	04/17/2025	ND	221	110	200	4.15	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	217	108	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 91.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

May 12, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MOC OLD INDIAN

Enclosed are the results of analyses for samples received by the laboratory on 05/06/25 14:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	05/06/2025	Sampling Date:	05/05/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MOC OLD INDIAN	Sampling Condition:	Cool & Intact
Project Number:	03C2284006	Sample Received By:	Tamara Oldaker
Project Location:	NEW WAVE 32.3978530, -104.1417240		

**Sample ID: PH 01A 1' (H252688-01)**

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	05/07/2025	ND	1.84	92.2	2.00	8.10		
Toluene*	<0.050	0.050	05/07/2025	ND	1.90	95.0	2.00	8.46		
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	1.87	93.7	2.00	8.77		
Total Xylenes*	<0.150	0.150	05/07/2025	ND	5.53	92.2	6.00	8.80		
Total BTEX	<0.300	0.300	05/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	05/07/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2025	ND	185	92.4	200	2.51	
DRO >C10-C28*	16.5	10.0	05/06/2025	ND	181	90.5	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	05/06/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/06/2025  
 Reported: 05/12/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 05/05/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PH 01B 2' (H252688-02)**

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	05/07/2025	ND	1.84	92.2	2.00	8.10	
Toluene*	<0.050	0.050	05/07/2025	ND	1.90	95.0	2.00	8.46	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	1.87	93.7	2.00	8.77	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	5.53	92.2	6.00	8.80	
Total BTEX	<0.300	0.300	05/07/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/07/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2025	ND	185	92.4	200	2.51	
DRO >C10-C28*	<10.0	10.0	05/06/2025	ND	181	90.5	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	05/06/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/06/2025  
 Reported: 05/12/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 05/05/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 11D 4' (H252688-03)**

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	05/07/2025	ND	1.84	92.2	2.00	8.10	
Toluene*	<0.050	0.050	05/07/2025	ND	1.90	95.0	2.00	8.46	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	1.87	93.7	2.00	8.77	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	5.53	92.2	6.00	8.80	
Total BTEX	<0.300	0.300	05/07/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	05/07/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2025	ND	185	92.4	200	2.51	
DRO >C10-C28*	<10.0	10.0	05/06/2025	ND	181	90.5	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	05/06/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/06/2025  
 Reported: 05/12/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 05/05/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 11E 5' (H252688-04)**

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	05/07/2025	ND	1.84	92.2	2.00	8.10	
Toluene*	<0.050	0.050	05/07/2025	ND	1.90	95.0	2.00	8.46	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	1.87	93.7	2.00	8.77	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	5.53	92.2	6.00	8.80	
Total BTEX	<0.300	0.300	05/07/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	05/07/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2025	ND	185	92.4	200	2.51	
DRO >C10-C28*	<10.0	10.0	05/06/2025	ND	181	90.5	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	05/06/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/06/2025  
 Reported: 05/12/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 05/05/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 11F 6' (H252688-05)**

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	05/07/2025	ND	1.84	92.2	2.00	8.10		
Toluene*	<0.050	0.050	05/07/2025	ND	1.90	95.0	2.00	8.46		
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	1.87	93.7	2.00	8.77		
Total Xylenes*	<0.150	0.150	05/07/2025	ND	5.53	92.2	6.00	8.80		
Total BTEX	<0.300	0.300	05/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/07/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2025	ND	185	92.4	200	2.51	
DRO >C10-C28*	<10.0	10.0	05/06/2025	ND	181	90.5	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	05/06/2025	ND					

Surrogate: 1-Chlorooctane 101 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/06/2025  
 Reported: 05/12/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 05/05/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 12A 1' (H252688-06)**

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	05/07/2025	ND	1.84	92.2	2.00	8.10		
Toluene*	<0.050	0.050	05/07/2025	ND	1.90	95.0	2.00	8.46		
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	1.87	93.7	2.00	8.77		
Total Xylenes*	<0.150	0.150	05/07/2025	ND	5.53	92.2	6.00	8.80		
Total BTEX	<0.300	0.300	05/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4040	16.0	05/07/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2025	ND	185	92.4	200	2.51	
DRO >C10-C28*	<10.0	10.0	05/06/2025	ND	181	90.5	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	05/06/2025	ND					

Surrogate: 1-Chlorooctane 103 % 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  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/06/2025  
 Reported: 05/12/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 05/05/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 12B 2' (H252688-07)**

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	05/07/2025	ND	1.84	92.2	2.00	8.10		
Toluene*	<0.050	0.050	05/07/2025	ND	1.90	95.0	2.00	8.46		
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	1.87	93.7	2.00	8.77		
Total Xylenes*	<0.150	0.150	05/07/2025	ND	5.53	92.2	6.00	8.80		
Total BTEX	<0.300	0.300	05/07/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	05/07/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2025	ND	185	92.4	200	2.51	
DRO >C10-C28*	<10.0	10.0	05/06/2025	ND	181	90.5	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	05/06/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/06/2025  
 Reported: 05/12/2025  
 Project Name: MOC OLD INDIAN  
 Project Number: 03C2284006  
 Project Location: NEW WAVE 32.3978530, -104.1417240

Sampling Date: 05/05/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH 12C 3' (H252688-08)**

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	05/07/2025	ND	1.84	92.2	2.00	8.10	
Toluene*	<0.050	0.050	05/07/2025	ND	1.90	95.0	2.00	8.46	
Ethylbenzene*	<0.050	0.050	05/07/2025	ND	1.87	93.7	2.00	8.77	
Total Xylenes*	<0.150	0.150	05/07/2025	ND	5.53	92.2	6.00	8.80	
Total BTEX	<0.300	0.300	05/07/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/07/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2025	ND	185	92.4	200	2.51	
DRO >C10-C28*	<10.0	10.0	05/06/2025	ND	181	90.5	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	05/06/2025	ND					

Surrogate: 1-Chlorooctane 103 % 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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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager





**CARDINAL**  
Laboratories

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:		Date:	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		Date: 5-6-25		All Results are emailed. Please provide Email address: : jreich@ensulum.com	
Relinquished By:		Time: 11403		BBellil@ensulum.com, TMorrissey@ensulum.com, THillard@ensulum.com	
		Date:	Received By:	REMARKS:	
		Time:			
Delivered By: (Circle One)	Observed Temp. °C -0.9	Sample Condition Cool Intact <input checked="" type="checkbox"/>	CHECKED BY: (Initials) TO	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C -0.4	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #113 #140	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
				Correction Factor -0.5°C +0.3°C	Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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



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

QUESTIONS

Action 464275

**QUESTIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 464275
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2505952408
Incident Name	NAPP2505952408 NEW WAVE OLD INDIAN DRAW FRAC LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

**Location of Release Source***Please answer all the questions in this group.*

Site Name	New Wave Old Indian Draw Frac Line
Date Release Discovered	02/17/2025
Surface Owner	Federal

**Incident Details***Please answer all the questions in this group.*

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

**Nature and Volume of Release***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.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 1,137 BBL   Recovered: 120 BBL   Lost: 1,017 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.

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QUESTIONS, Page 2

Action 464275

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
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**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 02/28/2025
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QUESTIONS, Page 3

Action 464275

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 464275
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

<b>Remediation Plan</b>	
<i>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.</i>	
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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	12600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10
GRO+DRO (EPA SW-846 Method 8015M)	10
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	04/09/2025
On what date will (or did) the final sampling or liner inspection occur	05/05/2025
On what date will (or was) the remediation complete(d)	06/05/2025
What is the estimated surface area (in square feet) that will be reclaimed	173268
What is the estimated volume (in cubic yards) that will be reclaimed	15839
What is the estimated surface area (in square feet) that will be remediated	173268
What is the estimated volume (in cubic yards) that will be remediated	15839
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 464275

**QUESTIONS (continued)**

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	Action Number: 464275
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<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.
<i>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>	
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: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 05/17/2025
<i>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.</i>	

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QUESTIONS, Page 5  
  
Action 464275

QUESTIONS (continued)

Operator:  MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:  14744
	Action Number:  464275
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
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.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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QUESTIONS, Page 6

Action 464275

QUESTIONS (continued)

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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	469457
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/13/2025
What was the (estimated) number of samples that were to be gathered	865
What was the sampling surface area in square feet	173000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 464275

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 464275
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved as written except with the following conditions; 1. Mewbourne must complete the excavation and removal of impacted soils until confirmation samples collected from the bottom and sidewalls of the excavation report NMOCD Closure Criteria per 19.15.29.12D NMAC has been achieved. 2. OCD denies the sampling frequency of 400 square feet (ft.2) per one (1) 5-point composite sample (5pcs) for the excavation floor samples. Must comply with 200 ft.2 per 19.15.29.12D (1c) NMAC for both excavation floor and sidewall confirmation samples. 3. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, Mewbourne must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division.	6/2/2025
nvez	This is especially important for the material being used within the top four (4) feet from the ground surface. 4. Mewbourne has 90-days (September 2, 2025) to submit to OCD its appropriate or final remediation closure report.	6/2/2025