



October 7, 2024

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request
MCA Unit #126
Incident Number nGRL1231452632
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document site assessment and soil sampling activities performed at the MCA Unit #126 release (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a historical release of produced water at the Site. Based on the Site assessment activities and soil sample laboratory analytical results, Maverick is requesting closure for Incident Number nGRL1231452632.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 26, Township 17 South, Range 32 East, in Lea County, New Mexico and is associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (NMSLO).

On November 4, 2012, a water tank overflow resulted in the release of approximately 5.4 barrels (bbls) of produced water onto the caliche pad. A vacuum truck was used to recover approximately 1.5 bbls of released fluid. The previous operator, ConocoPhillips Company, reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 8, 2012. The release was assigned Incident Number nGRL1231452632.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 60 feet below ground surface (bgs) based on the nearest groundwater well/soil boring data. A borehole (BH-4) was drilled approximately 0.6 miles west of the Site on March 23, 2020. The borehole was advanced to a depth of 60 bgs via air rotary drilling rig, and no groundwater was encountered. The boring log is included in Appendix A. The location of borehole BH-4 is presented on Figure 1.

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The closest continuously flowing or significant watercourse is greater than 300 feet from 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 not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

The release occurred in 2012 while the Site was operated by ConocoPhillips Company. The initial Form C-141 indicated that the release impacted the caliche pad in an area measuring 111 feet by 75 feet and that remediation activities would be completed in accordance with NMOCD requirements. No subsequent documentation of remediation activities was available.

During July 2024, Maverick contracted Ensolum to complete assessment activities at the Site to evaluate the historical release area based on information provided on the Form C-141 and visual observations. No visible indications of the historical release were identified during the Site visit. The area of investigation was determined based on the release description, a review historical satellite imagery, and the topography/surface flow direction at the Site. The storage tanks were located within an intact lined containment (photo 2). Assessment soil samples SS01 through SS06 were collected within and around the investigation area from a depth of 0.5 feet bgs and boreholes BH01 through BH03 were advanced via hand auger to a depth of 2 feet bgs within the investigation area, to assess for the presence or absence of impacted soil. Soil samples were collected from the boreholes from depths of 0.5 feet and 2 feet bgs for laboratory analysis. The release extent and assessment 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 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 at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 4500.

Laboratory analytical results for assessment soil samples SS01 through SS06 indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for the soil samples from boreholes BH01 through BH03 indicated that all COC concentrations were compliant with the Site Closure Criteria and provided vertical delineation to the most stringent Table I Closure Criteria. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.



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RECLAMATION ACTIVITIES

The release area is located on an active production facility; therefore, any soil remaining in place on the active pad that is compliant with the Site Closure Criteria but exceeds reclamation requirements of NMAC 19.15.29.13.D (1) will be addressed during decommissioning of the production facility and final reclamation of the pad.

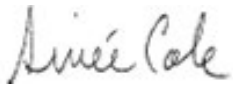
CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from a historical release of produced water at the Site. No visible indications of the release were identified at the Site and laboratory analytical results for the assessment soil samples collected within the investigation area indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the release was laterally and vertically delineated to the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required.

Initial response efforts, historical remediation activities, and natural attenuation have mitigated impacts at this Site. Depth to groundwater was estimated to be greater than 51 feet bgs at the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident nGRL1231452632.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC



Aimee Cole
Senior Managing Scientist

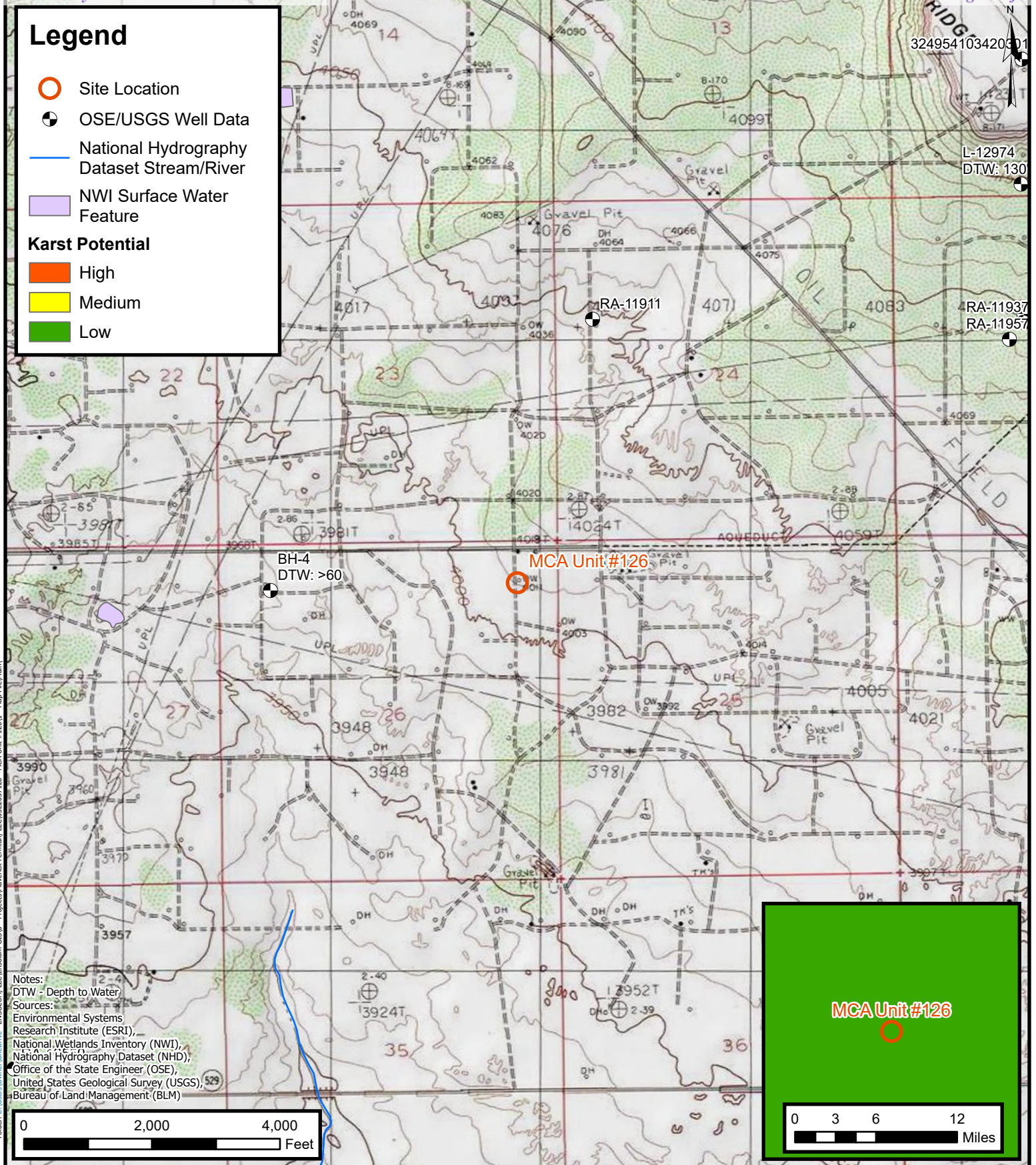
cc: Bryce Wagoner, Maverick Natural Resources

Appendices:

Figure 1	Site Receptor Map
Figure 2	Soil Sample Location Map
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain of Custody Documentation
Appendix D	Initial Form C-141

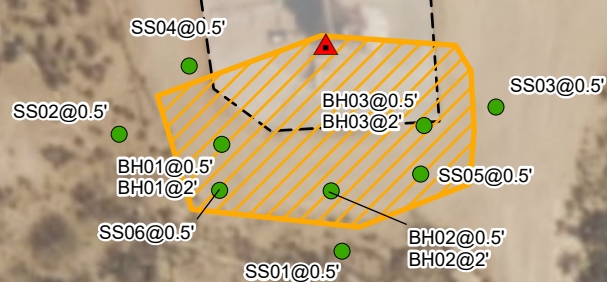


FIGURES

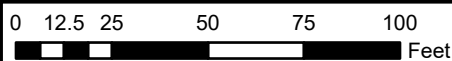


Legend

- Assessment Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- ▨ Release Extent
- ▭ Liner Containment Area



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Soil Sample Location Map

Maverick Permian, LLC
MCA Unit #126
Incident Number: nGRL1231452632
Unit A, Section 26, Township 17 South, Range 32 East
Lea County, New Mexico

FIGURE
2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA Unit #126 Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Sample Date	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	1,000	2,500	10,000
Assessment Soil Samples										
SS01	07/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	07/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	07/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	07/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS05	10/01/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS06	10/01/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Borehole Soil Samples										
BH01	07/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,480
BH01	07/24/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
BH02	07/02/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,120
BH02	07/24/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
BH03	07/02/2024	0.5	<0.050	<0.300	<10.0	65	185	65.1	250	496
BH03	07/24/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384

















Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
NA: Not Analyzed
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records

212C-MD-02067		 TETRA TECH		LOG OF BORING BH-4					Page 1 of 3							
Project Name: MCA 123 Injection Line Release																
Borehole Location: GPS: 32.810847°, -103.743217°					Surface Elevation: 3973 ft											
Borehole Number: BH-4				Borehole Diameter (in.): 8		Date Started: 3/23/2020		Date Finished: 3/23/2020								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS				
			ExStik	PID								While Drilling <input checked="" type="checkbox"/> DRY ft Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft				
Remarks:												DEPTH (ft)	REMARKS			
MATERIAL DESCRIPTION																
5			208	1.6									-SM- SILTY SAND; Brown, dense, dry, with no odor, with no staining.	4	BH-4 (0'-1')	
			361	1.7												BH-4 (2'-3')
			657	1.9												BH-4 (3'-4')
			2.0	2.1												BH-4 (4'-5')
			2.03	1.9												BH-4 (6'-7')
10			1.95	2											BH-4 (9'-10')	
15			9.45	3.1											BH-4 (14'-15')	
20			3.75	3.2											BH-4 (19'-20')	
25			2.81	1.4											BH-4 (24'-25')	
Sampler Types:		<input checked="" type="checkbox"/> Split Spoon	<input type="checkbox"/> Acetate Liner	Operation Types:		<input type="checkbox"/> Hand Auger	Notes:		Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.							
		<input type="checkbox"/> Shelby	<input type="checkbox"/> Vane Shear			<input type="checkbox"/> Mud Rotary										
		<input type="checkbox"/> Bulk Sample	<input type="checkbox"/> California			<input type="checkbox"/> Continuous Flight Auger										
		<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Test Pit			<input type="checkbox"/> Wash Rotary										
						<input type="checkbox"/> Direct Push										
						<input type="checkbox"/> Core Barrel										
Logger: Devin Dominguez				Drilling Equipment: Air Rotary				Driller: Scarborough Drilling								

212C-MD-02067		TETRA TECH										LOG OF BORING BH-4															Page 2 of 3																																																																																								
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<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">DEPTH (ft)</th> <th rowspan="2">OPERATION TYPE</th> <th rowspan="2">SAMPLE</th> <th>CHLORIDE FIELD SCREENING (ppm)</th> <th>VOC FIELD SCREENING (ppm)</th> <th>SAMPLE RECOVERY (%)</th> <th>MOISTURE CONTENT (%)</th> <th>DRY DENSITY (pcf)</th> <th>LIQUID LIMIT</th> <th>PLASTICITY INDEX</th> <th rowspan="2">MINUS NO. 200 (%)</th> <th rowspan="2">GRAPHIC LOG</th> </tr> <tr> <th>ExStik</th> <th>PID</th> <th></th> <th></th> <th></th> <th>LL</th> <th>PI</th> </tr> </thead> <tbody> <tr> <td>30</td> <td></td> <td>X</td> <td>1.87</td> <td>1.7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>35</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>40</td> <td></td> <td>X</td> <td>1.67</td> <td>1.8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>45</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>50</td> <td></td> <td>X</td> <td>587</td> <td>1.7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div style="width: 50%;"> <p style="text-align: center;">WATER LEVEL OBSERVATIONS</p> <p>While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft</p> <p>Remarks:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">MATERIAL DESCRIPTION</th> <th style="width: 10%;">DEPTH (ft)</th> <th style="width: 20%;">REMARKS</th> </tr> </thead> <tbody> <tr> <td>-SM- SILTY SAND; Tan, dense, dry, with no odor, with no staining.</td> <td>29</td> <td>BH-4 (29'-30')</td> </tr> <tr> <td>-CL- CLAYSTONE; Red, moderately hard, moist, with no odor, with no staining.</td> <td>39</td> <td>BH-4 (39'-40')</td> </tr> <tr> <td></td> <td></td> <td>BH-4 (49'-50')</td> </tr> </tbody> </table> </div> </div>																									DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	ExStik	PID				LL	PI	30		X	1.87	1.7								35		X										40		X	1.67	1.8								45												50		X	587	1.7								MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	-SM- SILTY SAND; Tan, dense, dry, with no odor, with no staining.	29	BH-4 (29'-30')	-CL- CLAYSTONE; Red, moderately hard, moist, with no odor, with no staining.	39	BH-4 (39'-40')			BH-4 (49'-50')
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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324829103420201

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324829103420201 17S.33E.30.12432

Lea County, New Mexico
Latitude 32°48'35", Longitude 103°42'13" NAD27
Land-surface elevation 4,051.40 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1961-03-10			D	62610	3982.18	NGVD29	1		Z	
1961-03-10			D	62611	3983.81	NAVD88	1		Z	
1961-03-10			D	72019	69.22		1		Z	
1966-02-14			D	62610	3981.91	NGVD29	1		Z	
1966-02-14			D	62611	3983.54	NAVD88	1		Z	
1966-02-14			D	72019	69.49		1		Z	
1971-02-16			D	62610	3982.26	NGVD29	1		Z	
1971-02-16			D	62611	3983.89	NAVD88	1		Z	
1971-02-16			D	72019	69.14		1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2024-07-24 14:21:04 EDT
0.32 0.27 nadww01



APPENDIX B

Photographic Log



Photographic Log

Maverick Permian, LLC

MCA Unit 126

Incident Number nGRL1231452632



Photograph 1
Date: 10/1/2024
Description: Historical release area
View: West



Photograph 2
Date: 10/1/2024
Description: Lined containment
View: West



Photograph 3
Date: 10/1/2024
Description: Historical release area
View: Southwest



Photograph 4
Date: 10/1/2024
Description: Historical release area
View: West



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

July 09, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 126

Enclosed are the results of analyses for samples received by the laboratory on 07/02/24 13:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/02/2024
 Reported: 07/09/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS01 0.5' (H243973-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2024	ND	2.02	101	2.00	1.09	
Toluene*	<0.050	0.050	07/05/2024	ND	1.97	98.5	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	1.30	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.07	101	6.00	1.40	
Total BTEx	<0.300	0.300	07/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	07/08/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2024	ND	195	97.4	200	0.0226	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	194	97.2	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/02/2024
 Reported: 07/09/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS02 0.5' (H243973-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2024	ND	2.02	101	2.00	1.09	
Toluene*	<0.050	0.050	07/05/2024	ND	1.97	98.5	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	1.30	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.07	101	6.00	1.40	
Total BTEx	<0.300	0.300	07/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/08/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2024	ND	195	97.4	200	0.0226	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	194	97.2	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/02/2024
 Reported: 07/09/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS03 0.5' (H243973-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/05/2024	ND	2.02	101	2.00	1.09		
Toluene*	<0.050	0.050	07/05/2024	ND	1.97	98.5	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	1.30		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.07	101	6.00	1.40		
Total BTEx	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	07/05/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2024	ND	195	97.4	200	0.0226	
DRO >C10-C28*	<10.0	10.0	07/06/2024	ND	194	97.2	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	07/06/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/02/2024
 Reported: 07/09/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS04 0.5' (H243973-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/05/2024	ND	2.02	101	2.00	1.09		
Toluene*	<0.050	0.050	07/05/2024	ND	1.97	98.5	2.00	1.41		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	1.30		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.07	101	6.00	1.40		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	07/05/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2024	ND	195	97.4	200	0.0226	
DRO >C10-C28*	<10.0	10.0	07/06/2024	ND	194	97.2	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	07/06/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/02/2024
 Reported: 07/09/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH01 0.5' (H243973-05)

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	07/05/2024	ND	2.02	101	2.00	1.09	
Toluene*	<0.050	0.050	07/05/2024	ND	1.97	98.5	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	1.30	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.07	101	6.00	1.40	
Total BTX	<0.300	0.300	07/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	2480	16.0	07/05/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2024	ND	195	97.4	200	0.0226	
DRO >C10-C28*	<10.0	10.0	07/06/2024	ND	194	97.2	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	07/06/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/02/2024
 Reported: 07/09/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH02 0.5' (H243973-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2024	ND	2.02	101	2.00	1.09	
Toluene*	<0.050	0.050	07/05/2024	ND	1.97	98.5	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	1.30	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.07	101	6.00	1.40	
Total BTEX	<0.300	0.300	07/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	1120	16.0	07/05/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2024	ND	195	97.4	200	0.0226	
DRO >C10-C28*	<10.0	10.0	07/06/2024	ND	194	97.2	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	07/06/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/02/2024
 Reported: 07/09/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH03 0.5' (H243973-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2024	ND	2.02	101	2.00	1.09	
Toluene*	<0.050	0.050	07/05/2024	ND	1.97	98.5	2.00	1.41	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	1.30	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.07	101	6.00	1.40	
Total BTEX	<0.300	0.300	07/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	496	16.0	07/05/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/06/2024	ND	195	97.4	200	0.0226	
DRO >C10-C28*	65.1	10.0	07/06/2024	ND	194	97.2	200	2.07	
EXT DRO >C28-C36	185	10.0	07/06/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Aimee Cole

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM

Zip: 88220

Phone #: (720) 384-7365

Fax #:

Project #: 03E2057126

Project Owner: Maverick

Project Name: MCA Unit 126

Project Location: 32.810936, -103.7306519

Sampler Name: Omar Handy

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Ensolum

Attn: Aimee Cole

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

Lab I.D.

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEX

TPH

Chlorides

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Relinquished By:

Date: 7-22-24

Received By:

Time: 1:35

Date: 7-22-24

Received By:

Time:

Relinquished By:

Date:

Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp.: 38

Corrected Temp.: 38

Sample Condition

Cool Intact

Yes

No

CHECKED BY:

(Initials)

Yes

No

Turnaround Time:

Standard

Rush

Yes

No

Bacteria (only)

Cool Intact

Yes

No

Sample Condition

Observed Temp.: 38

Corrected Temp.: 38

REMARKS: A Cole @ Ensolum.com, m sarkis @ Ensolum.com



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

July 29, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 126

Enclosed are the results of analyses for samples received by the laboratory on 07/24/24 13:10.

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.

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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/24/2024
 Reported: 07/29/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 01 2 (H244394-01)

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	07/24/2024	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	07/24/2024	ND	2.22	111	2.00	7.34	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.29	115	2.00	7.40	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	6.95	116	6.00	6.81	
Total BTX	<0.300	0.300	07/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/25/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	220	110	200	2.47	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	193	96.4	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/24/2024
 Reported: 07/29/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 02 2 (H244394-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	07/24/2024	ND	2.22	111	2.00	7.34	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.29	115	2.00	7.40	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	6.95	116	6.00	6.81	
Total BTEX	<0.300	0.300	07/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	220	110	200	2.47	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	193	96.4	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 07/24/2024
 Reported: 07/29/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 07/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 03 2 (H244394-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2024	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	07/25/2024	ND	2.22	111	2.00	7.34	
Ethylbenzene*	<0.050	0.050	07/25/2024	ND	2.29	115	2.00	7.40	
Total Xylenes*	<0.150	0.150	07/25/2024	ND	6.95	116	6.00	6.81	
Total BTEX	<0.300	0.300	07/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	220	110	200	2.47	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	193	96.4	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Aimee Cole

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: (720) 384-7365

Project #: 03E2057126

Project Name: MCA 126

Project Location: 32.810936, -103.7306519

Sampler Name: Onec Handy

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

TPH

BTEX

Chlorides

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Ensolum

Attn: Aimee Cole

Address: 3122 National Parks

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

PRESERV.

SAMPLING

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Relinquished By:

Date: 7-24-24

Received By:

Verbal Result: ☐ Yes ☒ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By:

Date:

Received By:

REMARKS:

ACOle@ensolum.com

Time:

Date:

Time:

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Y.O.

Thermometer ID #443

RUSH

Cool Intact

Observed Temp. °C

FORM 000-R-3-2-10/07/21

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



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

October 07, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 126

Enclosed are the results of analyses for samples received by the laboratory on 10/01/24 14:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 10/01/2024
 Reported: 10/07/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS 05 0.5' (H245957-01)

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	10/03/2024	ND	2.09	105	2.00	1.21		
Toluene*	<0.050	0.050	10/03/2024	ND	2.17	109	2.00	0.480		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	2.21	110	2.00	0.134		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.69	111	6.00	0.465		
Total BTX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	320	16.0	10/02/2024	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	10/02/2024	ND	224	112	200	9.55	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 AIMEE COLE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 10/01/2024
 Reported: 10/07/2024
 Project Name: MCA 126
 Project Number: 03E2057126
 Project Location: MAVERICK 32.810936-103.7306519

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS 06 0.5' (H245957-02)

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	10/03/2024	ND	2.09	105	2.00	1.21	
Toluene*	<0.050	0.050	10/03/2024	ND	2.17	109	2.00	0.480	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	2.21	110	2.00	0.134	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.69	111	6.00	0.465	
Total BTEX	<0.300	0.300	10/03/2024	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	10/02/2024	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	10/02/2024	ND	224	112	200	9.55	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

Cardinal Laboratories

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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

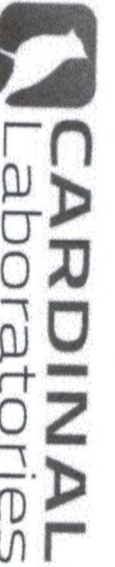
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST	
Project Manager: Aimee Cole					

Address: 3122 National Parks Hwy		City: Carlsbad		State: NM		Zip: 88220	
Phone #: (720) 384-7365		Fax #:		Company: ENSOLUM, LLC		Attn: Aimee Cole	
Project #: 03E205726		Project Owner:		City:		State:	
Project Location: 32,810936,-103,7306519		Phone #:		Zip:			
Sampler Name: MARIO BACAKIS		Fax #:					

FOR LAB USE ONLY		LABORATORY USE ONLY		PRESERVATION		SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME		
					GROUNDWATER				
					WASTEWATER				
					SOIL				
					OIL				
					SLUDGE				
					OTHER:				
					ACID/BASE:				
					ICE / COOL				
					OTHER:				

Relinquished By:	Date: 10/11/24	Received By:	Date: 10/11/24
Relinquished By:	Time: 14:30	Received By:	Time: 14:30
Delivered By: (Circle One)	Observed Temp. °C: 4.2	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 3.0	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Thermometer ID #113	ADD #114	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Observed Temp. °C
Correction Factor: -0.5°C		Corrected Temp. °C	



APPENDIX D

Initial Form C-141

7
unit 126

HOBBS OCD

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

NOV 08 2012

Form C-141
Revised October 10, 2003

RECEIVED

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company ConocoPhillips Company	Contact John W. Gates
Address 3300 North A St. Bldg 6, Midland, TX 79705-5406	Telephone No. 505.391.3158
Facility Name MCA Station 4	Facility Type Oil and Gas

Surface Owner Federal	Mineral Owner Federal	Lease No
------------------------------	------------------------------	----------

LOCATION OF RELEASE

NEAREST WELL MCA UNIT #126
API #30-025-12709

Unit Letter A	Section 26	Township 17	Range 32	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
-------------------------	----------------------	-----------------------	--------------------	---------------	------------------	---------------	----------------	----------------------

Latitude **37.178181"N** Longitude **96.054581"W**

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 5.4bbl (Oil, 5.4water)	Volume Recovered (Oil, 1.5water)
Source of Release Sump Tank ran over due to sump pump failure	Date and Hour of Occurrence 11/4/12 @ 1200 HRS	Date and Hour of Discovery 11/5/12 @ 0800 HRS
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

GW @ 49'

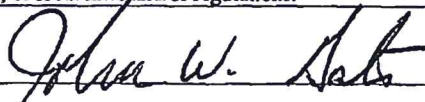
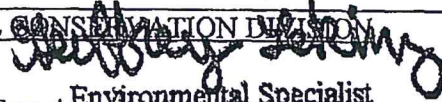
Describe Cause of Problem and Remedial Action Taken.*

The release originated from a sump tank that ran over due to the sump pump locking up. Upon discovery the MSO isolated the leak and reported the pump failure to mechanic and HSE

Describe Area Affected and Cleanup Action Taken.*

The affected area is an ~111' X 75' X .5" area of caliche location. The MSO called for a vacuum truck and ~1.5 bbls of water was recovered. The spill area will be remediated in accordance with BLM & NMOCD guidelines

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION  Environmental Specialist	
Printed Name: John W. Gates	Approved by District Supervisor	
Title: HSER Lead	Approval Date: 11/09/12	Expiration Date: 01/09/13
E-mail Address: John.W.Gates@conocophillips.com	Conditions of Approval: SUBMIT FINAL	Attached <input type="checkbox"/>
Date: 11/08/12 Phone: 505.391.3158	C-141 BY 01/09/13	IRP-11-12-2865

• Attach Additional Sheets If Necessary

NOV 14 2012

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State of New Mexico
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Santa Fe, NM 87505

QUESTIONS

Action 391118

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	391118
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nGRL1231452632
Incident Name	NGRL1231452632 MCA UNIT #126 @ 30-025-12709
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-12709] MCA UNIT #126

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MCA UNIT #126
Date Release Discovered	11/04/2012
Surface Owner	State

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 Production Tank Produced Water Released: 5 BBL Recovered: 1 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 391118

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
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	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: Aimee Cole Email: acole@ensolum.com Date: 10/09/2024
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QUESTIONS, Page 3

Action 391118

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	391118
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1000 (ft.) and ½ (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
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.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride	(EPA 300.0 or SM4500 Cl B)	2480
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	250
GRO+DRO	(EPA SW-846 Method 8015M)	65.1
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	07/02/2024
On what date will (or did) the final sampling or liner inspection occur	10/01/2024
On what date will (or was) the remediation complete(d)	10/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

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

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

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QUESTIONS, Page 4

Action 391118

QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	Unknown/Historical release - Remediation activities were completed historically by a previous operator.
<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: Aimee Cole Email: acole@ensolum.com Date: 10/09/2024
<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 391118

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
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Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

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 391118

QUESTIONS (continued)

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	391118
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	365198
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/24/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1500

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Unknown/Historical release - Remediation activities were completed historically by a previous operator.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 10/09/2024
--	--

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QUESTIONS, Page 7

Action 391118

QUESTIONS (continued)

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	Action Number: 391118
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 391118

CONDITIONS

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[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	10/15/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/15/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	10/15/2024