



August 23, 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 #127
Incident Number nSAP0219847991
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 #127 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 assessment activities and soil sample laboratory analytical results, Maverick is requesting closure for Incident Number nSAP0219847991.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 25, Township 17 South, Range 32 East, in Lea County, New Mexico (32.8109283, -103.7263565) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 17, 2002, electrolysis of a carbon steel to stainless steel connection resulted in the release of approximately 9 barrels (bbls) of produced water onto the caliche pad, lease road, and adjacent pasture. The previous operator, ConocoPhillips Company, reported the release to the New Mexico Oil Conservation Division (NMOCD). The release was assigned Incident Number nSAP0219847991. The location and volume of the release were available in the NMOCD incident records; however, no Form C-141 was found.

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 between 51 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 324829103420201. The well has a

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reported depth to groundwater of 69 feet bgs. The referenced well record is included in Appendix A. All wells used for depth to groundwater determination are presented on Figure 1.

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

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.

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

The release occurred in 2002 while the Site was operated by ConocoPhillips Company. The release information documented in the NMOCD incident records indicated that the caliche pad, adjacent pasture, and lease road were impacted by the release and that remediation of impacted soil would be completed in-place.

During July 2024, Maverick contracted Ensolum to complete assessment activities at the Site to evaluate the historical release area based on information available in the NMOCD records and visual observations. No visible indications of the 22-year old 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. Soil samples SS01 through SS04 were collected around the investigation area from a depth of 0.5 feet bgs to assess the lateral extent of the release. Boreholes BH01 through BH04 were advanced via hand auger within the investigation area to assess for the presence or absence of residual impacted soil. The boreholes were advanced to a depth of 2 feet bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Based on the absence of elevated field screening results, soil samples were collected from depths of 0.5 feet and 2 feet bgs for laboratory analysis. The investigation area 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 assessment 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



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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 SS04, collected around the investigation area, and assessment samples from boreholes BH01 through BH04, collected within the investigation area, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical report is included in Appendix C.

RECLAMATION ACTIVITIES

Remediation and reclamation activities were completed historically by the previous operator. No information was available regarding backfill activities or seeding; however, the release area matches the surrounding topography and vegetation cover and composition in the pasture area appear consistent with the surrounding undisturbed land.

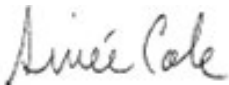
CLOSURE REQUEST

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 and around the inferred historical release area, indicated all COC concentrations were compliant with 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 nSAP0219847991.

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	Assessment Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records



Maverick Permian, LLC
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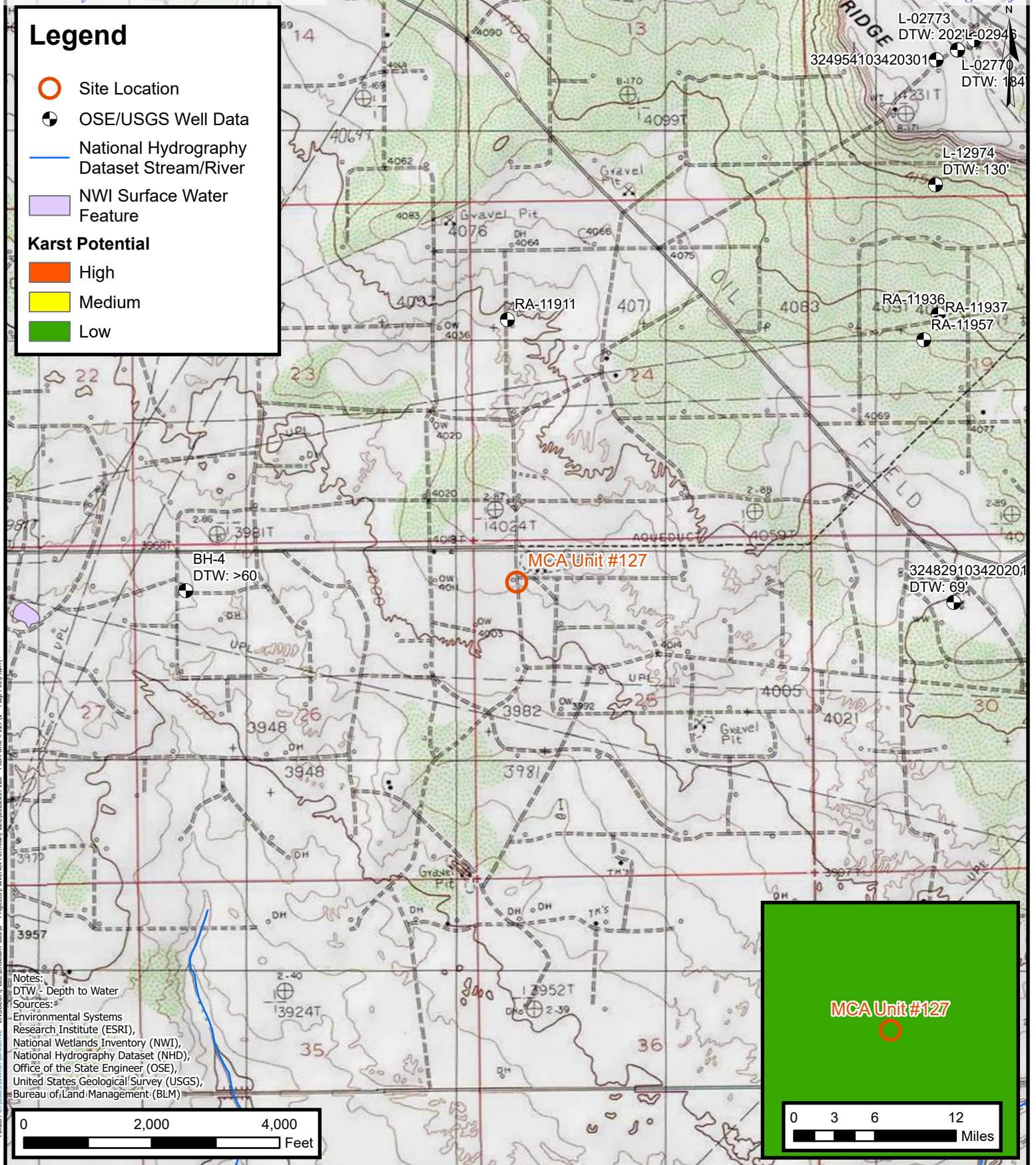
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Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain of Custody Documentation



FIGURES



Site Receptor Map

Maverick Permian, LLC

MCA Unit #127

Incident Number: nSAP0219847991

Unit D, Section 25, Township 17 South, Range 32 East
 Lea County, New Mexico

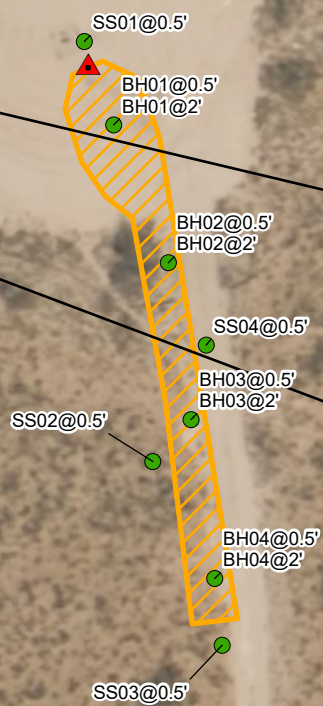
FIGURE

1

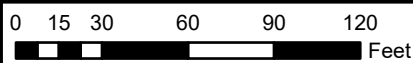


Legend

- Assessment Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Pipeline
- Area of Investigation



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Assessment Soil Sample Locations

Maverick Permian, LLC
MCA Unit #127
Incident Number: nSAP0219847991
Unit D, Section 25, Township 17 South, Range 32 East
Lea County, New Mexico

FIGURE
2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA Unit #127 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
NMOCD Reclamation Requirement for the top four feet			NE	NE	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS02	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS04	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH01*	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH01*	07/25/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH02*	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH02*	07/25/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH03*	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
BH03*	07/25/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH04*	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH04*	07/25/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

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

Grey text represents samples that have been excavated

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation requirement in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.



APPENDIX A

Referenced Well Records



USGS Home
Contact USGS
Search USGS

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

i 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.

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[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 #127

Incident Number nSAP0219847991

Date & Time: Thu, Jul 25, 2024 at 10:14:51 MDT
 Position: +032.811000° / -103.726357° (-15.510)
 Altitude: +016ft (-1.1m)
 Datum: WGS-84
 Azimuth/Bearing: 05° N59E 1049mils True (+12°)
 Elevation Angle: +22.4°
 Horizon Angle: +00.0°
 Zoom: 0.5X



Photograph 1

Date: 7/25/2025

Description: Well head and well pad

View: Northeast

Date & Time: Thu, Jul 25, 2024 at 10:15:25 MDT
 Position: +032.811048° / -103.726204° (-15.510)
 Altitude: +017ft (-1.1m)
 Datum: WGS-84
 Azimuth/Bearing: 198° S13W 3920mils True (+12°)
 Elevation Angle: +07.7°
 Horizon Angle: +00.0°
 Zoom: 0.5X



Photograph 2

Date: 7/25/2025

Description: Well pad and lease road

View: Southwest

Date & Time: Thu, Jul 25, 2024 at 10:16:03 MDT
 Position: +032.811000° / -103.726357° (-15.510)
 Altitude: +016ft (-1.1m)
 Datum: WGS-84
 Azimuth/Bearing: 192° S60E 3507mils True (+12°)
 Elevation Angle: +07.7°
 Horizon Angle: +00.0°
 Zoom: 0.5X



Photograph 3

Date: 7/25/2025

Description: Pasture adjacent to lease road

View: Southeast

Date & Time: Thu, Jul 25, 2024 at 10:16:45 MDT
 Position: +032.811048° / -103.726191° (-15.510)
 Altitude: +017ft (-1.1m)
 Datum: WGS-84
 Azimuth/Bearing: 198° S13W 3920mils True (+12°)
 Elevation Angle: +07.7°
 Horizon Angle: +00.0°
 Zoom: 0.5X



Photograph 4

Date: 7/25/2025

Description: Lease road

View: Southwest



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

July 30, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 127

Enclosed are the results of analyses for samples received by the laboratory on 07/25/24 12:26.

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 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: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 01 0.5' (H244447-01)

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	07/26/2024	ND	2.30	115	2.00	6.25	
Toluene*	<0.050	0.050	07/26/2024	ND	2.35	117	2.00	7.32	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.52	126	2.00	7.72	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.55	126	6.00	7.78	
Total BTX	<0.300	0.300	07/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/29/2024	ND	432	108	400	7.14		

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	07/26/2024	ND	183	91.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	178	88.9	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 02 0.5' (H244447-02)

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	07/26/2024	ND	2.30	115	2.00	6.25		
Toluene*	<0.050	0.050	07/26/2024	ND	2.35	117	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.52	126	2.00	7.72		
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.55	126	6.00	7.78		
Total BTEX	<0.300	0.300	07/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	<16.0	16.0	07/29/2024	ND	432	108	400	7.14		

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	07/26/2024	ND	183	91.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	178	88.9	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 0.5' (H244447-03)

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	07/26/2024	ND	2.30	115	2.00	6.25		
Toluene*	<0.050	0.050	07/26/2024	ND	2.35	117	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.52	126	2.00	7.72		
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.55	126	6.00	7.78		
Total BTEx	<0.300	0.300	07/26/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/29/2024	ND	432	108	400	7.14		

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	07/26/2024	ND	183	91.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	178	88.9	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 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: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 04 0.5' (H244447-04)

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	07/26/2024	ND	2.30	115	2.00	6.25	
Toluene*	<0.050	0.050	07/26/2024	ND	2.35	117	2.00	7.32	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.52	126	2.00	7.72	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.55	126	6.00	7.78	
Total BTX	<0.300	0.300	07/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	<16.0	16.0	07/29/2024	ND	432	108	400	7.14	

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	07/26/2024	ND	183	91.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	178	88.9	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 01 0.5' (H244447-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	2.30	115	2.00	6.25	
Toluene*	<0.050	0.050	07/26/2024	ND	2.35	117	2.00	7.32	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.52	126	2.00	7.72	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.55	126	6.00	7.78	
Total BTEX	<0.300	0.300	07/26/2024	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	16.0	16.0	07/29/2024	ND	432	108	400	7.14	

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	07/26/2024	ND	183	91.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	178	88.9	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 49.1-148

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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 01 2' (H244447-06)

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	07/26/2024	ND	2.30	115	2.00	6.25		
Toluene*	<0.050	0.050	07/26/2024	ND	2.35	117	2.00	7.32		
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.52	126	2.00	7.72		
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.55	126	6.00	7.78		
Total BTEX	<0.300	0.300	07/26/2024	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	16.0	16.0	07/29/2024	ND	464	116	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	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 02 0.5' (H244447-07)

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	07/26/2024	ND	2.13	106	2.00	0.322	
Toluene*	<0.050	0.050	07/26/2024	ND	2.22	111	2.00	0.310	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.31	115	2.00	0.809	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.00	117	6.00	0.335	
Total BTX	<0.300	0.300	07/26/2024	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	64.0	16.0	07/29/2024	ND	464	116	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	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 02 2' (H244447-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2024	ND	2.13	106	2.00	0.322		
Toluene*	<0.050	0.050	07/26/2024	ND	2.22	111	2.00	0.310		
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.31	115	2.00	0.809		
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.00	117	6.00	0.335		
Total BTEX	<0.300	0.300	07/26/2024	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	176	16.0	07/29/2024	ND	464	116	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	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 03 0.5' (H244447-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2024	ND	2.13	106	2.00	0.322		
Toluene*	<0.050	0.050	07/26/2024	ND	2.22	111	2.00	0.310		
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.31	115	2.00	0.809		
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.00	117	6.00	0.335		
Total BTEx	<0.300	0.300	07/26/2024	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	32.0	16.0	07/29/2024	ND	464	116	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	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 03 2' (H244447-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	2.13	106	2.00	0.322	
Toluene*	<0.050	0.050	07/26/2024	ND	2.22	111	2.00	0.310	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.31	115	2.00	0.809	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.00	117	6.00	0.335	
Total BTEX	<0.300	0.300	07/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/29/2024	ND	464	116	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	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 04 0.5' (H244447-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2024	ND	2.13	106	2.00	0.322		
Toluene*	<0.050	0.050	07/26/2024	ND	2.22	111	2.00	0.310		
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.31	115	2.00	0.809		
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.00	117	6.00	0.335		
Total BTEX	<0.300	0.300	07/26/2024	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	07/29/2024	ND	464	116	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	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: MCA 127
 Project Number: 03E2057128
 Project Location: MAVERICK 32.8109283-103.7263565

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 04 2' (H244447-12)

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	07/26/2024	ND	2.13	106	2.00	0.322	
Toluene*	<0.050	0.050	07/26/2024	ND	2.22	111	2.00	0.310	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.31	115	2.00	0.809	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	7.00	117	6.00	0.335	
Total BTX	<0.300	0.300	07/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	07/29/2024	ND	464	116	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	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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*=Accredited Analyte

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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
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST																
Project Manager: Aimee Cole		Address: 3122 National Parks Hwy		Company: Ensolum																		
City: Carlsbad		State: NM Zip: 88220		Attn: Aimee Cole																		
Phone #: (720) 384-7365		Fax #:		Address: 3122 National Parks																		
Project #: 03E2053128		Project Owner: MAVERICK		City: Carlsbad																		
Project Name: MCA 127		State: NM Zip: 88220		Phone #:																		
Project Location: 32.8109283, -103.7263565		Fax #:		Phone #:																		
Sampler Name: Omar Handy		FOR LAB USE ONLY		PRESERV		SAMPLING																
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		TPH		BTX		Chlorides	
H24447	SS01	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7/25/24	8:35	✓	✓	✓	✓	✓	✓	
1	SS02	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8:38	✓	✓	✓	✓	✓	✓	✓	
2	SS03	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8:40	✓	✓	✓	✓	✓	✓	✓	
3	SS04	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8:42	✓	✓	✓	✓	✓	✓	✓	
4	SS04	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8:45	✓	✓	✓	✓	✓	✓	✓	
5	BH01	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9:02	✓	✓	✓	✓	✓	✓	✓	
6	BH01	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9:07	✓	✓	✓	✓	✓	✓	✓	
7	BH02	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9:11	✓	✓	✓	✓	✓	✓	✓	
8	BH02	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9:14	✓	✓	✓	✓	✓	✓	✓	
9	BH03	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9:17	✓	✓	✓	✓	✓	✓	✓	
10	BH03	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9:17	✓	✓	✓	✓	✓	✓	✓	

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Relinquished By:	Date: 7-25-24	Received By:	Date: 7-25-24
Relinquished By: [Signature]	Date: 7-25-24	Received By: [Signature]	Date: 7-25-24
Time: 1:26	Time: 1:26	Time: 1:26	Time: 1:26
Delivered By: (Circle One)	Observed Temp. °C: 24	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
		<input type="checkbox"/> No <input type="checkbox"/> Yes	Thermometer ID #119-1140
		<input type="checkbox"/> No <input type="checkbox"/> Yes	Correction Factor: 0.56-0.72574
		<input type="checkbox"/> No <input type="checkbox"/> Yes	Bacteria (only) <input type="checkbox"/>
		<input type="checkbox"/> No <input type="checkbox"/> Yes	Cool Intact <input type="checkbox"/>
		<input type="checkbox"/> No <input type="checkbox"/> Yes	Sample Condition
		<input type="checkbox"/> No <input type="checkbox"/> Yes	Observed Temp. °C
		<input type="checkbox"/> No <input type="checkbox"/> Yes	Corrected Temp. °C

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

REMARKS: a cole @ensolum.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Aimee Cole

Address: 3122 Nehalem Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: (720) 384-7365

Fax #:

Project #: 03F2057178

Project Owner: Maverick

Project Name: MdA 127

City: Carlsbad

Project Location: SA.8109283,-103.7263565

State: NM Zip: 88220

Sampler Name: Dan Hendry

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Ensolum

Attn: Aimee Cole

Address: 3122 Nehalem Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

BTEX

Chlorides

Lab I.D.

Sample I.D.

Depth (feet)

H24447

11

12

BH04

BH04

0.5

2

6

51

7/25/24

9:20

7/25/24

9:25

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

TPH

BTEX

Chlorides

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Relinquished By:

Dan

Date: 7/25/24 Received By:

Aimee Cole

Date: 7/25/24 Received By:

Aimee Cole

Time:

Time:

Time:

Time:

Time:

Time:

Time:

Time:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp.: °C

Corrected Temp.: °C

Sample Condition

Cool Intact

Yes ☒ No ☐

Yes ☐ No ☒

CHECKED BY:

(Initials)

AC

7/25/24

Turnaround Time:

Standard

Rush ☒

Thermometer ID - #113

Correction Factor - 0.01

Bacteria (only)

Cool Intact

Yes ☐ No ☒

Yes ☐ No ☒

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

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

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

QUESTIONS

Action 376933

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	376933
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nSAP0219847991
Incident Name	NSAP0219847991 MCA UNIT #127 @ 30-025-00678
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-00678] MCA UNIT #127

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MCA UNIT #127
Date Release Discovered	07/17/2002
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: Produced Water Released: 9 BBL Recovered: 0 BBL Lost: 9 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 376933

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	376933
	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)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 08/23/2024
--	---

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QUESTIONS, Page 3

Action 376933

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	376933
	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 75 and 100 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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	Greater than 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	Yes

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)	176
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	07/25/2024
On what date will (or did) the final sampling or liner inspection occur	07/25/2024
On what date will (or was) the remediation complete(d)	07/25/2024
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 376933

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	376933
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	Unknown. This is a historical release that occurred in 2002.

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

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 08/23/2024
--	---

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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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

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Santa Fe, NM 87505

QUESTIONS, Page 5

Action 376933

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 376933
	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

District I

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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 6

Action 376933

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	376933
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	365209
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/26/2024
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	3000

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. This is a historical release that occurred in 2002. No impacted soil was encountered during the assessment activities.

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: 08/23/2024
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 7

Action 376933

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 376933
	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 376933

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	376933
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	9/12/2024
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.	9/12/2024
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.	9/12/2024