



September 13, 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 2-F Production Header
Incident Number nPAC0609340050
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 2-F Production Header 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 crude oil and produced water at the Site. Based on the Site assessment activities and soil sample laboratory analytical results, Maverick is requesting closure for Incident Number nPAC0609340050.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 27, Township 17 South, Range 32 East, in Lea County, New Mexico (32.80373, -103.75266) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 13, 2005, internal corrosion of a 90-degree joint resulted in the release of approximately 4 barrels (bbls) of crude oil and 41 bbls of produced water. A vacuum truck was used to recover approximately 3.5 bbls of crude oil and 31.5 bbls of produced water. 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 April 18, 2005. The release was assigned Incident Number nPAC0609340050.

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 0.7 miles northeast of the Site on March 23, 2020. The borehole was drilled during remediation activities associated with Incident Number NJXK1621825385. The borehole was advanced to a depth of 60 bgs

via air rotary drilling rig, and no groundwater was encountered. Additionally, New Mexico Office of the State Engineer (NMOSE) well RA-12721 POD 5, was located approximately 0.7 miles southwest of the Site. The well was drilled during April 2020 and has a reported depth to groundwater of 124 feet bgs. The referenced well records are 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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

The release occurred in 2005 while the Site was operated by ConocoPhillips Company. The initial Form C-141 indicated the release sprayed an area measuring 20 feet by 25 feet and pooled in areas measuring 54 feet by 90 feet and 84 feet by 60 feet. An October 6, 2005, Environmental Site Investigation Report (BCC International, Inc.) documents the release location and provides vertical delineation of the release to below 600 mg/kg for chloride and 100 mg/kg for TPH. The report recommends surface remediation; however, no subsequent documentation of remediation activities was available. The Environmental Site Investigation Report is included as Appendix E.

During June 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. Assessment soil samples SS01 through SS06 were collected around the documented historical release area from a depth of 0.5 feet bgs to confirm the lateral extent of the surface release. Assessment soil samples were collected within the release extent at sample points SS07 through SS12 at depths ranging from 0.5 feet to 3 feet bgs, to assess for the presence or absence of impacted soil. The soil samples were field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. 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 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

Maverick Permian, LLC
Closure Request
MCA Unit 2-F Production Header

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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 SS06, collected around the release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for the assessment samples from sample points SS07 through SS12, collected within the release extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Additionally, the release was delineated vertically to the most stringent Table I Closure Criteria at sample points SS07, SS11, SS12 (and at historical 08/31/2005 sample point SB1@10'). Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.

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 the 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.

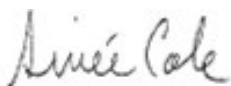
CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from a historical release of crude oil and produced water at the Site. Laboratory analytical results for the assessment soil samples, collected within and around the historical release extent, 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 at this time.

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 nPAC0609340050.

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



Maverick Permian, LLC
Closure Request
MCA Unit 2-F Production Header

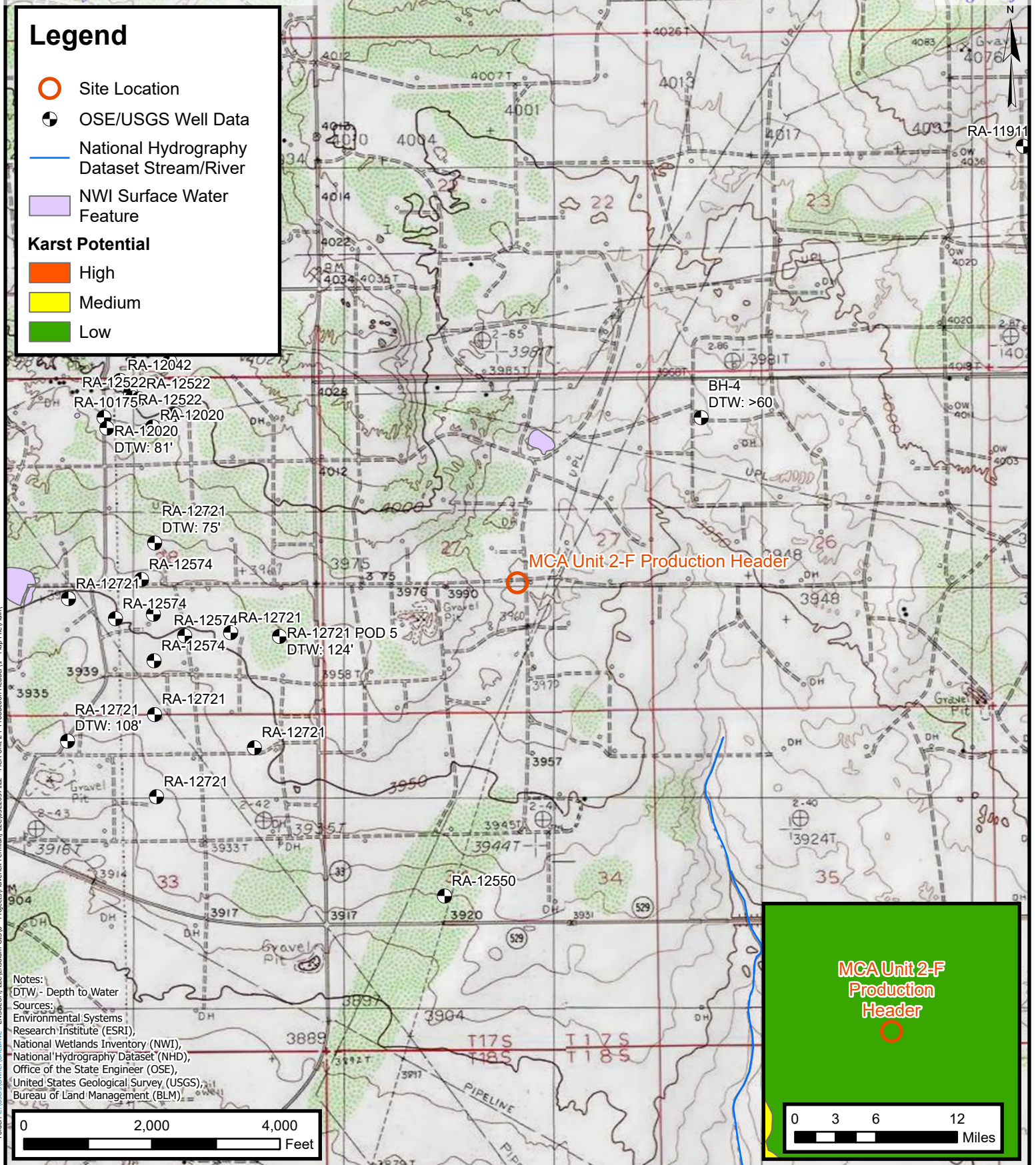
Page 4

Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
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	Form C-141
Appendix E	Environmental Site Investigation Report (BBC International, Inc., 10/6/2005)



FIGURES



Site Receptor Map

Maverick Permian, LLC
MCA Unit 2-F Production Header
Incident Number: nPAC0609340050
Unit J, Section 27, Township 17 South, Range 32 East
Lea County, New Mexico

FIGURE

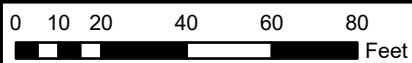
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- ▨ Release Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Assessment Soil Sample Locations

Maverick Permian, LLC
MCA Unit 2-F Production Header
Incident Number: nPAC0609340050
Unit J, Section 27, Township 17 South, Range 32 East
Lea County, New Mexico

FIGURE
2



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
MCA Unit 2-F Production Header
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 1 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	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS04	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS05	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS06	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS07	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS07	06/26/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS08	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,000
SS08	06/26/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,040
SS08	06/26/2024	3	<0.050	<0.300	<10.0	34.6	70.7	34.6	105	480
SS09	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS09	06/26/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	864
SS10	06/21/2024	0.5	<0.050	<0.300	<10.0	524	398	524	922	7,600
SS10	06/26/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
SS11	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SS11	06/26/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS12	06/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS12	06/26/2024	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


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



APPENDIX A

Referenced Well Records

Released to Imaging: 9/25/2024 8:13:20 AM

212C-MD-02067		 TETRA TECH		LOG OF BORING BH-4				Page 2 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		
												While Drilling <input checked="" type="checkbox"/> DRY ft Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft		
Remarks:												DEPTH (ft)	REMARKS	
MATERIAL DESCRIPTION														
30			1.87	1.7									29	BH-4 (29'-30')
35														BH-4 (34'-35')
40			1.67	1.8									39	BH-4 (39'-40')
45														
50			587	1.7										BH-4 (49'-50')
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"/> Air Rotary								
		<input type="checkbox"/> Bulk Sample	<input type="checkbox"/> California			<input type="checkbox"/> Direct Push								
		<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Test Pit			<input type="checkbox"/> Core Barrel								
Logger: Devin Dominguez		Drilling Equipment: Air Rotary				Driller: Scarborough Drilling								


Released to Imaging: 9/25/2024 8:13:20 AM



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	RA 12721 POD5	2	4	4	28	17S	32E	615650	3629961 

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: WHITE, JOHNNOWN.GENER

Drill Start Date: 04/27/2020

Drill Finish Date: 04/28/2020

Plug Date:

Log File Date: 05/18/2020

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 2.00

Depth Well: 130 feet

Depth Water: 124 feet

Water Bearing Stratifications:

Top Bottom Description

109	121	Sandstone/Gravel/Conglomerate
121	125	Sandstone/Gravel/Conglomerate
125	130	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

90	130
----	-----

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/12/24 10:27 AM

Page 1 of 1

POD SUMMARY - RA 12721 POD5



APPENDIX B

Photographic Log



Photographic Log

Maverick Permian, LLC

MCA Unit 2-F Production Header

nPAC0609340050



Photograph 1 Date: June 21, 2024
 Description: Historical release area
 View: North



Photograph 2 Date: June 21, 2024
 Description: Historical release area
 View: Northeast



Photograph 3 Date: June 26, 2024
 Description: Historical release area
 View: Northwest



Photograph 4 Date: June 26, 2024
 Description: Delineation activities
 View: Northwest



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

June 27, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA UNIT 2 - F PRODUCTION HEADER

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 13:25.

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,

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:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	MCA UNIT 2 - F PRODUCTION HEADER	Sampling Condition:	** (See Notes)
Project Number:	03E2057122	Sample Received By:	Shalyn Rodriguez
Project Location:	32.80373, -103.75266		

Sample ID: SS 01 0.5 (H243699-01)

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	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	06/25/2024	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	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 0.5 (H243699-02)

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	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2024	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	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 0.5 (H243699-03)

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	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	06/25/2024	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	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Analytical Results For:

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

Received: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 0.5 (H243699-04)

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	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	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	48.0	16.0	06/25/2024	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	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 107 % 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: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 05 0.5 (H243699-05)

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	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/25/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 06 0.5 (H243699-06)

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	06/26/2024	ND	1.85	92.5	2.00	1.58		
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09		
Total BTEX	<0.300	0.300	06/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/25/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 114 % 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: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 07 0.5 (H243699-07)

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	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 112 % 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: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 08 0.5 (H243699-08)

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	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	06/25/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

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

Received: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 09 0.5 (H243699-09)

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	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	272	16.0	06/25/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

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

Received: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 10 0.5 (H243699-10)

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	06/26/2024	ND	1.85	92.5	2.00	1.58		
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09		
Total BTEX	<0.300	0.300	06/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	06/25/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	193	96.6	200	3.56		
DRO >C10-C28*	524	10.0	06/25/2024	ND	177	88.4	200	1.72		
EXT DRO >C28-C36	398	10.0	06/25/2024	ND						

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Analytical Results For:

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

Received: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 11 0.5 (H243699-11)

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	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	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	256	16.0	06/25/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

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

Received: 06/21/2024
 Reported: 06/27/2024
 Project Name: MCA UNIT 2 - F PRODUCTION HEADER
 Project Number: 03E2057122
 Project Location: 32.80373, -103.75266

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 12 0.5 (H243699-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2024	ND	1.85	92.5	2.00	1.58	
Toluene*	<0.050	0.050	06/26/2024	ND	1.80	90.2	2.00	2.64	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.84	91.8	2.00	3.82	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.66	94.4	6.00	4.09	
Total BTEX	<0.300	0.300	06/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/25/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	193	96.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.4	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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. #:																							
Project Manager: Aimee Cole		Company: Ensolum																							
Address: 3122 National Parts Hwy		Attn: Aimee Cole																							
City: Carlisle	State: NM	Zip: 88220																							
Phone #: 720-384-7365	Fax #:																								
Project #: OSE2054122	Project Owner: Mawenick	City: Carlisle	State: NM	Zip: 88220																					
Project Name: MCA Unit 2 - F Production Header	Phone #:																								
Project Location: 32.80333, -103.75266	Fax #:																								
Sample Name: Oneer Handy	MATRIX:	PRESERV:	SAMPLING																						
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	BTEX	TPH	Chlorides							
H043001	SS01	0.5	G											6/2/24	9:30										
	SS02														9:35										
	SS03														9:40										
	SS04														9:45										
	SS05														9:50										
	SS06														10:00										
	SS07														10:05										
	SS08														10:10										
	SS09														10:15										
	SS10														11:00										
<p><small>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 the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																									
Relinquished By: [Signature]		Date: 6/2/24		Received By: [Signature]		Date: 6/2/24		Time: 13:35		Observed Temp. °C: 13.8		Corrected Temp. °C:		Turnaround Time: Standard Rush		Thermometer ID: #113		Correction Factor: #140		Bacteria (only) Sample Condition: Cool Intact		Observed Temp. °C:		Corrected Temp. °C:	
Verbal Result: □ Yes <input checked="" type="checkbox"/> No		Add'l Phone #:		All Results are emailed. Please provide Email address: aimee@ensolum.com , msaikis@ensolum.com																					
REMARKS:																									



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

July 02, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA UNIT 2 - F PRODUCTION HEADER

Enclosed are the results of analyses for samples received by the laboratory on 06/26/24 14:49.

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:	06/26/2024	Sampling Date:	06/26/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	MCA UNIT 2 - F PRODUCTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	03E2057122	Sample Received By:	Alyssa Parras
Project Location:	32.80373, -103.75266		

Sample ID: SS 07 2 (H243829-01)

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	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEX	<0.300	0.300	07/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	189	94.7	200	0.176		
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	183	91.7	200	0.826		
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND						

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 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:	06/26/2024	Sampling Date:	06/26/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	MCA UNIT 2 - F PRODUCTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	03E2057122	Sample Received By:	Alyssa Parras
Project Location:	32.80373, -103.75266		

Sample ID: SS 08 1 (H243829-02)

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	07/01/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	1040	16.0	07/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	189	94.7	200	0.176	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	183	91.7	200	0.826	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:	06/26/2024	Sampling Date:	06/26/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	MCA UNIT 2 - F PRODUCTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	03E2057122	Sample Received By:	Alyssa Parras
Project Location:	32.80373, -103.75266		

Sample ID: SS 08 3 (H243829-03)

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	07/01/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	480	16.0	07/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	34.6	10.0	07/02/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	70.7	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	06/26/2024	Sampling Date:	06/26/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	MCA UNIT 2 - F PRODUCTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	03E2057122	Sample Received By:	Alyssa Parras
Project Location:	32.80373, -103.75266		

Sample ID: SS 09 2 (H243829-04)

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	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEx	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	864	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 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:	06/26/2024	Sampling Date:	06/26/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	MCA UNIT 2 - F PRODUCTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	03E2057122	Sample Received By:	Alyssa Parras
Project Location:	32.80373, -103.75266		

Sample ID: SS 10 2 (H243829-05)

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	07/01/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	1360	16.0	07/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	06/26/2024	Sampling Date:	06/26/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	MCA UNIT 2 - F PRODUCTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	03E2057122	Sample Received By:	Alyssa Parras
Project Location:	32.80373, -103.75266		

Sample ID: SS 11 2 (H243829-06)

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	07/01/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659		
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905		
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND						

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	06/26/2024	Sampling Date:	06/26/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	MCA UNIT 2 - F PRODUCTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	03E2057122	Sample Received By:	Alyssa Parras
Project Location:	32.80373, -103.75266		

Sample ID: SS 12 2 (H243829-07)

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	07/01/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



APPENDIX D

Form C-141

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

Form C-141
Revised October 10, 2003

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 Kenneth N. Andersen
Address 4001 Penbrook, Odessa, TX 79762-5917	Telephone No. 505.391.5569
Facility Name MCA Unit 2 - F Production Header	Facility Type Oil and Gas

Surface Owner BLM	Mineral Owner BLM	Lease No LC - 057210
--------------------------	--------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter J	Section 27	Township 17S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea Co.
-------------------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	--------------------------

Latitude **32.80373N** Longitude **103.75266W**

NATURE OF RELEASE

Type of Release Oil & Produced Water	Volume of Release 45 bbl (4 oil, 41 water)	Volume Recovered (3.5 oil, 31.5 water)
Source of Release 3" bypass line on 2 - F production header	Date and Hour of Occurrence 04/13/2005 0430hrs	Date and Hour of Discovery 04/13/2005 0700hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Silvia Dickey, NMOCD	
By Whom? Steven W. Cross	Date and Hour 04/13/2005 1500hrs	
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.*

Describe Cause of Problem and Remedial Action Taken.*

There was a hole in the 90 ell which was caused by internal corrosion. The spill site will be delineated and a remediation plan will be submitted to the NMOCD & BLM for approval.

Describe Area Affected and Cleanup Action Taken.*

The spill area covered ~ 20'X25' sprayed area, ~ 54'X90' pooled area, 84'X60' pooled area, all on dry sandy pasture with no cows present. Picked up the free fluid with vacuum truck.

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.

OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:		
Printed Name: Kenneth N Andersen			
Title: SHEaR Specialist	Approval Date:	Expiration Date:	
E-mail Address: ken.n.andersen@conocophillips.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 04/18/2005 Phone: 505.391.5569			

- Attach Additional Sheets If Necessary

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

Form C-141
Revised October 10, 2003

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 Kenneth N. Andersen	
Address 4001 Penbrook, Odessa, TX 79762-5917	Telephone No. 505.391.5569	
Facility Name MCA Unit 2 - F Production Header	Facility Type Oil and Gas	
Surface Owner BLM	Mineral Owner BLM	Lease No LC - 057210

LOCATION OF RELEASE

Unit Letter J	Section 27	Township 17S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea Co.
-------------------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	--------------------------

Latitude **32.80373N** Longitude **-103.75266W**

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Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Silvia Dickey, NMOCD	
By Whom? Steven W. Cross	Date and Hour 04/13/2005 1500hrs	
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.*

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There was a hole in the 90 ell which was caused by internal corrosion. The spill site will be delineated and a remediation plan will be submitted to the NMOCD & BLM for approval.

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The spill area covered ~ 20'X25' sprayed area, ~ 54'X90' pooled area, 84'X60' pooled area, all on dry sandy pasture with no cows present. Picked up the free fluid with vacuum truck. Surface remediation of the spill site was done which consisted of plowing and discing in gypsum and humate, reseeded with BLM seed appropriate to the area, watering the spill site, and closing it.

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: <i>Kenneth N. Andersen</i>		OIL CONSERVATION DIVISION	
Printed Name: Kenneth N Andersen		Approved by District Supervisor: <i>[Signature]</i>	
Title: HSER PSM Lead		Approval Date: 6-12-06	Expiration Date: 30-dy
E-mail Address: ken.n.andersen@conocophillips.com		Conditions of Approval: Report delineation of CI, TPH + BTEX	
Date: 06/02/2006 Phone: 505.391.3158		Attached <input type="checkbox"/>	

• Attach Additional Sheets If Necessary

incident - n PAC06 09 340050
application - p PAC06 166 31035
Released to Imaging: 9/25/2024 8:13:20 AM

AP# 924



APPENDIX E

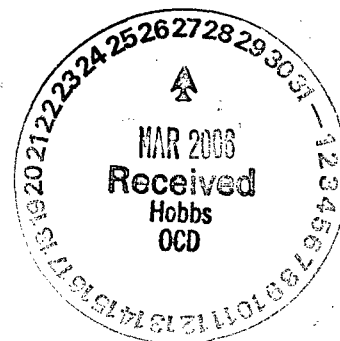
Environmental Site Investigation Report (BBC International, Inc., 10/6/2005)



APPROVED 3.27.06
SA

CONOCOPHILLIPS

**MCA UNIT 2 – F PRODUCTION
HEADER LEAK
(04-13-05)**



ENVIRONMENTAL SITE INVESTIGATION

PERFORMED BY:

BBC INTERNATIONAL, INC.
WORLD-WIDE ENVIRONMENTAL SPECIALISTS
1324 W. MARLAND BLVD.
P. O. BOX 805
HOBBS, NEW MEXICO 88240
(505)397-6388 • FAX (505)397-0397
EMAIL: bbc@bbcinternational.com
WEBSITE: www.bbcinternational.com

OCTOBER 6, 2005

PREPARED FOR:

**MR. KEN ANDERSEN
CONOCOPHILLIPS
P.O. BOX 180
MALJAMAR, NM 88264-0180**

Conoco Phillips 217817
Facility - PPAC 0609339814
incident - PPAC 0609340042

application - PPAC 0609340311

ConocoPhillips

MCA Unit 2 – F Production Header Leak

4-13-05

1.0 INTRODUCTION

The subject site is located south of Maljamar, New Mexico in Unit Letter J, of Section 27, Township 17 South, and Range 32 East. The site consists of undeveloped rangeland and petroleum production facilities. On April 13, 2005, a 3" steel flowline connection leaked approximately 4bbl of oil and 41 bbls of water with approximately 3.5 bbls of oil and 31.5 bbls of water being recovered.

2.0 SITE CHARACTERIZATION

The leak area measures approximately 54 feet by 90 feet at the center, 84 feet by 60 feet on the west side, with a smaller sprayed area on the east side that measures approximately 20 feet by 25 feet. A sketch of the leak area including the sample points can be reviewed in Appendix II of this report. Site photographs can be viewed in Appendix III of this report. The surface soil is red sand and caliche. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. Based on data from the ground water monitoring well located at the Maljamar Plant, depth to ground water is approximately 90 feet.

3.0 SITE INVESTIGATION ACTIVITIES

On August 31, 2005, BBC personnel conducted an investigation of the site. A soil boring was drilled near the center of the leak area using BBC's tractor mount drilling rig, to a total depth of 10 feet. Four samples were taken from the soil boring; one each at one foot, three feet, five feet, and ten feet. The samples were taken to Cardinal Laboratories for analysis. Laboratory analysis for SB1 @ 1' is: GRO – non-detect, DRO – 937 ppm, Chlorides 768 ppm, Benzene – non-detect, Toluene – non-detect, Ethyl Benzene – non-detect, Total Xylenes – non-detect. Laboratory analysis for SB1 @ 3' is: Chlorides 736 ppm. Laboratory analysis for SB1 @ 5' is: Chlorides 768 ppm. Laboratory analysis for SB1 @ 10' is: GRO – non-detect, DRO – 82.9 ppm, Chlorides 192 ppm, Benzene – non-detect, Toluene – non-detect, Ethyl Benzene – non-detect, Total Xylenes – non-detect. Laboratory analytical results for this sampling event can be reviewed in Appendix I of this report. The location of the soil boring and other sample points can be viewed on the site diagram in Appendix II of this report.

Two near surface samples were also taken; one from the east end of the leak area and one from the west end of the leak area. The samples were taken at a depth of one foot and were taken to Cardinal Laboratories for analysis.

Laboratory analysis for SP1@1' is: GRO – non-detect, DRO – 138 ppm, Chlorides 1136 ppm, Benzene – non-detect, Toluene – non-detect, Ethyl Benzene – non-detect, Total Xylenes – non-detect. Laboratory analysis for SP2@1' is: GRO – non-detect, DRO – 188 ppm, Chlorides 304 ppm, Benzene – non-detect, Toluene – non-detect, Ethyl Benzene – non-detect, Total Xylenes – non-detect. Laboratory analytical results for this sampling event can be reviewed in Appendix I of this report. The location of the sample points can be viewed on the site diagram in Appendix II of this report.

4.0 CONCLUSION AND RECOMMENDATION

The laboratory data for this site indicates that TPH and BTEX concentrations are below OCD guidelines for areas where depth to groundwater is greater than 50 feet. Taking into consideration that the depth to groundwater in the area is approximately 90 feet, the evidence indicates that migration of chlorides to groundwater is unlikely. Therefore, it is recommended that surface remediation be conducted at this site. This remediation would consist of plowing and discing the site to blend and aerate the soil. Soil amendments including gypsum, fertilizer, and/or humate, would be applied to promote revegetation. The site would be reseeded with BLM seed mix in the appropriate areas and the site would be closed.

ConocoPhillips
MCA 2F Production Header

		SB1-1'	SB1-3'	SB1-5'	SB1-10'	BKGRND @ 1'	SP1-1'	SP2-1'
Analyte	Method	Sample : H10139-1	Sample : H10139-2	Sample : H10139-3	Sample : H10139-4	Sample : H10138-1	Sample : H10138-2	Sample : H10138-3
		8/31/2005	8/31/2005	8/31/2005	8/31/2005	8/31/2005	8/31/2005	8/31/2005
		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	4500-ClB	768	736	560	192	64	1136	304
GRO	EPA SW-846 8015 M	<10.0			<10.0	<10.0	<10.0	<10.0
DRO	EPA SW-846 8015 M	937			82.9	<10.0	138	188
Benzene	SW-846 8260	<0.005			<0.005	<0.005	<0.005	<0.005
Toluene	SW-846 8260	<0.005			<0.005	<0.005	<0.005	<0.005
Ethylbenzene	SW-846 8260	<0.005			<0.005	<0.005	<0.005	0.007
Total Xylenes	SW-846 8260	<0.015			<0.015	<0.015	<0.015	<0.015

Appendix I

**ARDINAL
LABORATORIES**

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 08/31/05
Reporting Date: 09/02/05
Project Owner: CONOCO PHILLIPS
Project Name: MCA 2F PRODUCTION HEADER
Project Location: MALJAMAR, NM

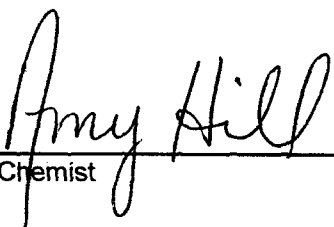
Analysis Date: 09/02/05
Sampling Date: 08/31/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

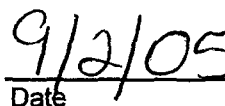
LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H10139-1	SB 1 @ 1'	768
H10139-2	SB 1 @ 3'	736
H10139-3	SB 1 @ 5'	560
H10139-4	SB 1 @ 10'	192
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods

4500-ClB

Note: Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

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PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 08/31/05
Reporting Date: 09/02/05
Project Owner: CONOCO PHILLIPS
Project Name: MCA 2F PRODUCTION HEADER
Project Location: MALJAMAR, NM

Sampling Date: 08/31/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		09/01/05	09/01/05	09/01/05	09/01/05	09/01/05	09/01/05
H10139-1	SB 1 @ 1'	<10.0	937	<0.005	<0.005	<0.005	<0.015
H10139-4	SB 1 @ 10'	<10.0	82.9	<0.005	<0.005	<0.005	<0.015
Quality Control		806	824	0.109	0.096	0.103	0.320
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		101	103	109.0	96.4	103	107
Relative Percent Difference		0.5	5.2	17.3	5.0	3.1	2.9

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Burgess J. A. Cooke
Burgess J. A. Cooke, Ph. D.

9/2/05
Date

H10139A.XLS

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ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

Page 1 of 1																																																																																						
ANALYSIS REQUEST																																																																																						
Company Name: BRC International, Inc. Project Manager: Cliff Brunson Address: 1324 W. Merland City: Hoobbs State: N.M. Zip: 88240 Phone #: (505) 397-6388 Fax #: (505) 397-0397 Project #: NA Project Owner: CeresoPhillips Project Name: MCA 2F Production Header Project Location: Mojave, NM Sampler Name: Ken Sullivan																																																																																						
P.O. #: Company: Attn: SMF Address: City: State: Zip: Phone #: Fax #:																																																																																						
BILL TO																																																																																						
Lab I.D. Sample I.D. <div style="display: flex; justify-content: space-between;"> <div> H10139-1 SR101' -2 SR102' -3 SR105' -4 SR1010' </div> <div> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th colspan="4">MATRIX</th> <th rowspan="2"># CONTAINERS</th> <th rowspan="2">(G)RAB (C)OMP.</th> <th colspan="4">PRESERV.</th> <th rowspan="2">SAMPLING</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> </tr> <tr> <th>WASTEWATER</th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>CRUDE OIL</th> <th>SLUDGE</th> <th>OTHER:</th> <th>ACID/BASE:</th> <th>ICE / COOL</th> <th>OTHER:</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>G</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8-31-05</td> <td>10:31</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>G</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8-31-05</td> <td>10:40</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>G</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8-31-05</td> <td>10:45</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>G</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8-31-05</td> <td>10:52</td> </tr> </tbody> </table> </div> </div>		Lab I.D.	Sample I.D.	MATRIX				# CONTAINERS	(G)RAB (C)OMP.	PRESERV.				SAMPLING	DATE	TIME	WASTEWATER	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:							1	G						8-31-05	10:31							1	G						8-31-05	10:40							1	G						8-31-05	10:45							1	G						8-31-05	10:52
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REMARKS: Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:																																																																																						

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

**ARDINAL
LABORATORIES**

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 08/31/05
Reporting Date: 09/02/05
Project Owner: CONOCO PHILLIPS
Project Name: MCA 2F PRODUCTION HEADER
Project Location: MALJAMAR, NM

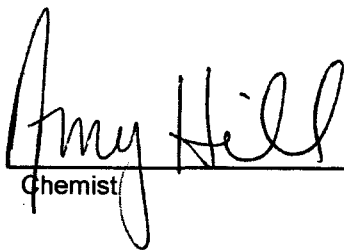
Analysis Date: 09/02/05
Sampling Date: 08/31/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H10138-1	BKGRND @1'	64
H10138-2	SP1 @1'	1136
H10138-3	SP2 @1'	304
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods

4500-Cl⁻B

Note: Analyses performed on 1:4 w:v aqueous extracts.


Chemist

9/2/05
Date

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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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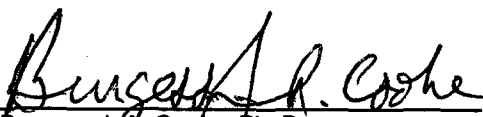
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Reporting Date: 09/02/05
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Project Name: MCA 2F PRODUCTION HEADER
Project Location: MALJAMAR, NM

Sampling Date: 08/31/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		09/01/05	09/01/05	09/01/05	09/01/05	09/01/05	09/01/05
H10138-1	BKGRD @ 1'	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H10138-2	SP 1 @ 1'	<10.0	138	<0.005	<0.005	<0.005	<0.015
H10138-3	SP 2 @ 1'	<10.0	188	<0.005	<0.005	0.007	<0.015
Quality Control		806	824	0.109	0.096	0.103	0.320
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		101	103	109.0	96.4	103	107
Relative Percent Difference		0.5	5.2	17.3	5.0	3.1	2.9

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.


Burgess J. A. Cooke, Ph. D.

9/2/05
Date

H10138A.XLS

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

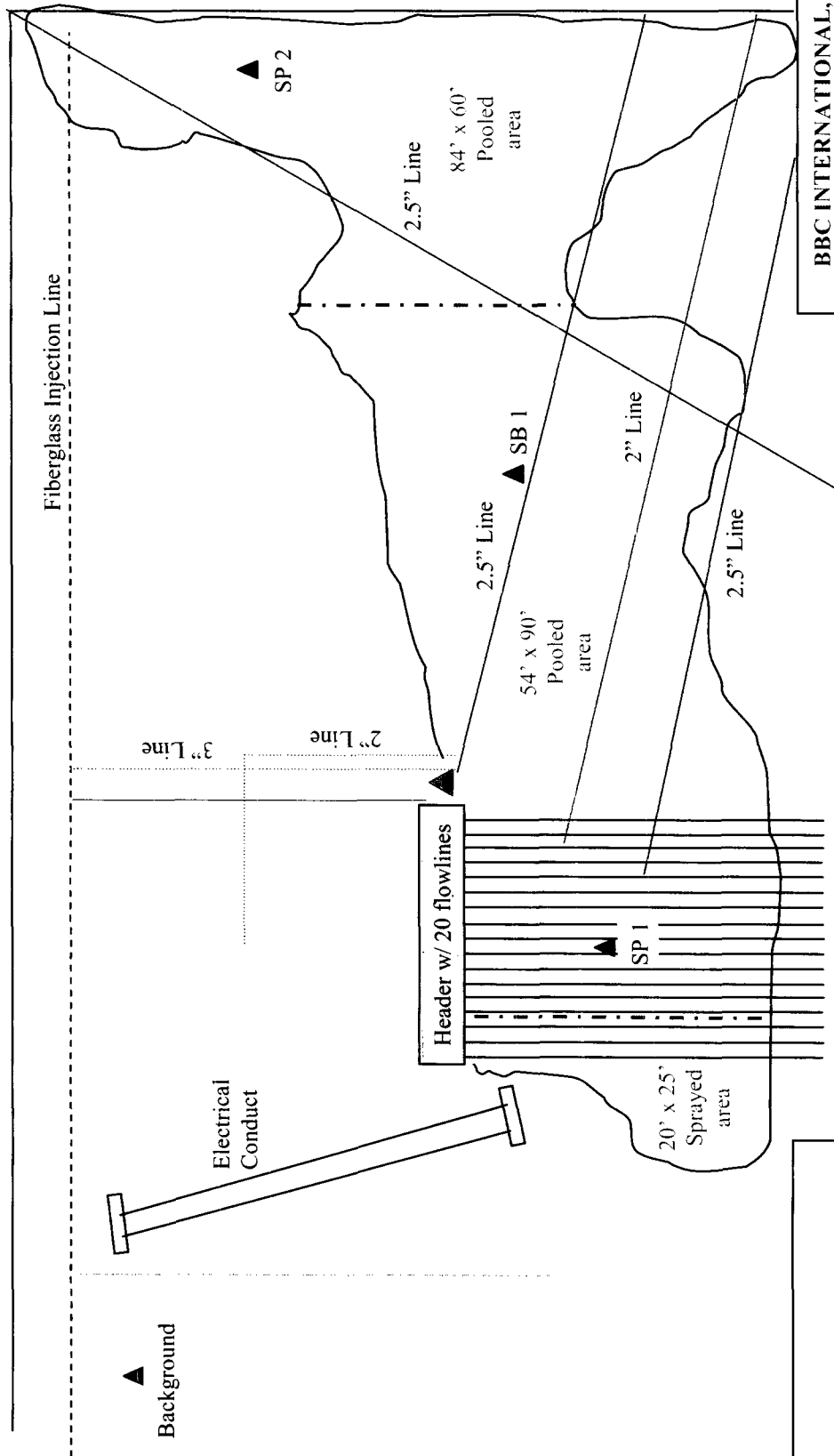
Page 1 of 1

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

Appendix II

CONOCOPHILLIPS MCA UNIT 2 – F PRODUCTION HEADER



LEGEND

- ▲ Leak point
- ▲ Sample Point

BBC INTERNATIONAL, INC.

CONOCOPHILLIPS
PEAK VIEW BATTERY

Date: 2-10-05

Drawn By: JG

Disk:

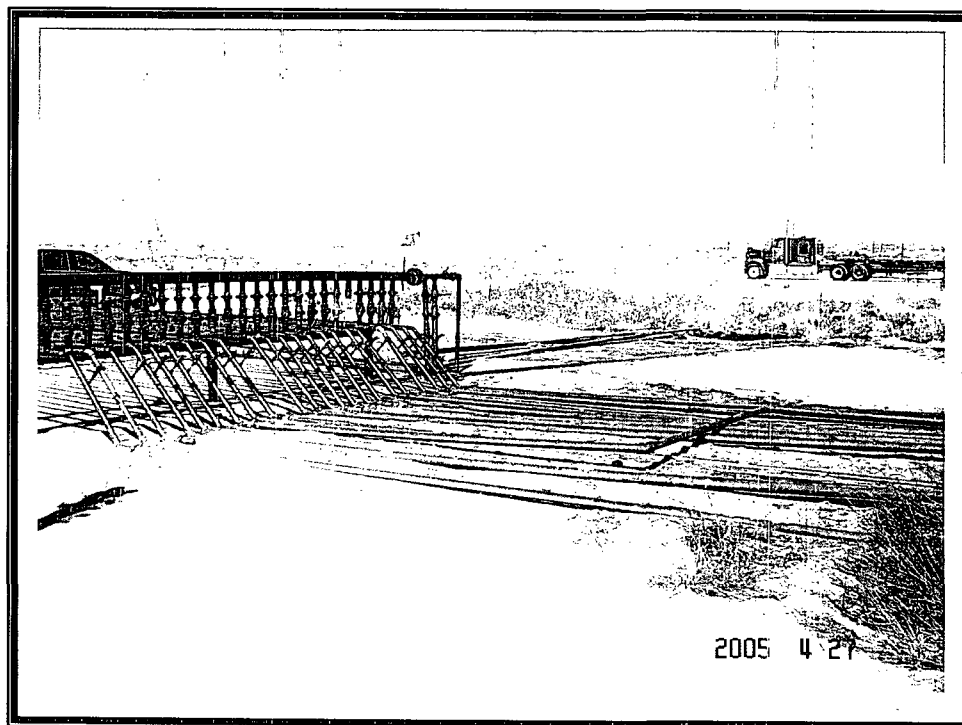
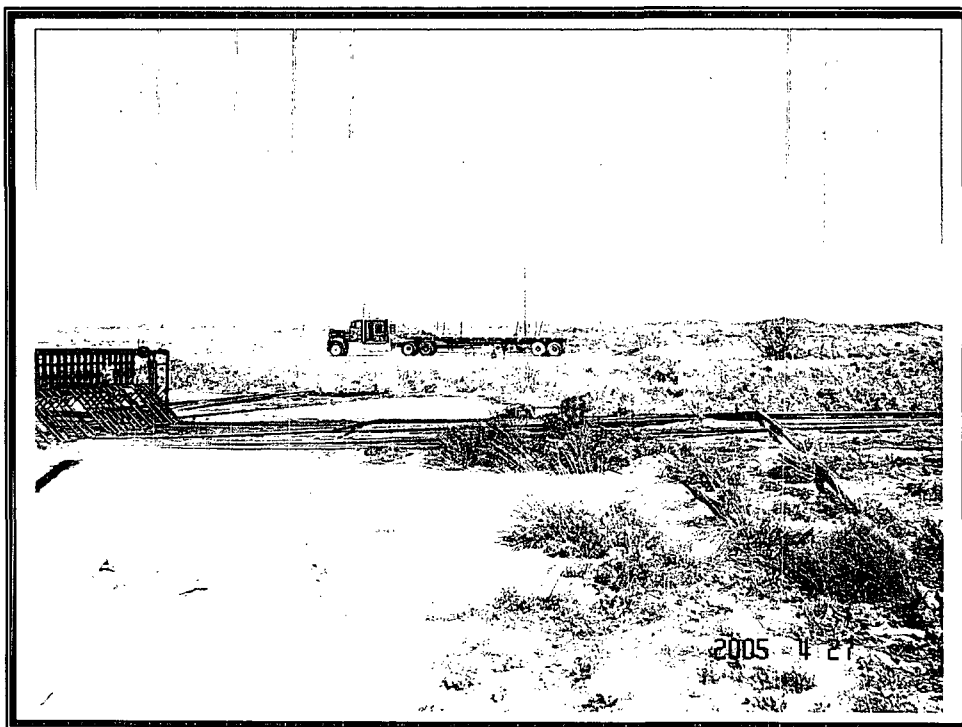
Sheet 1 of 1 Sheets

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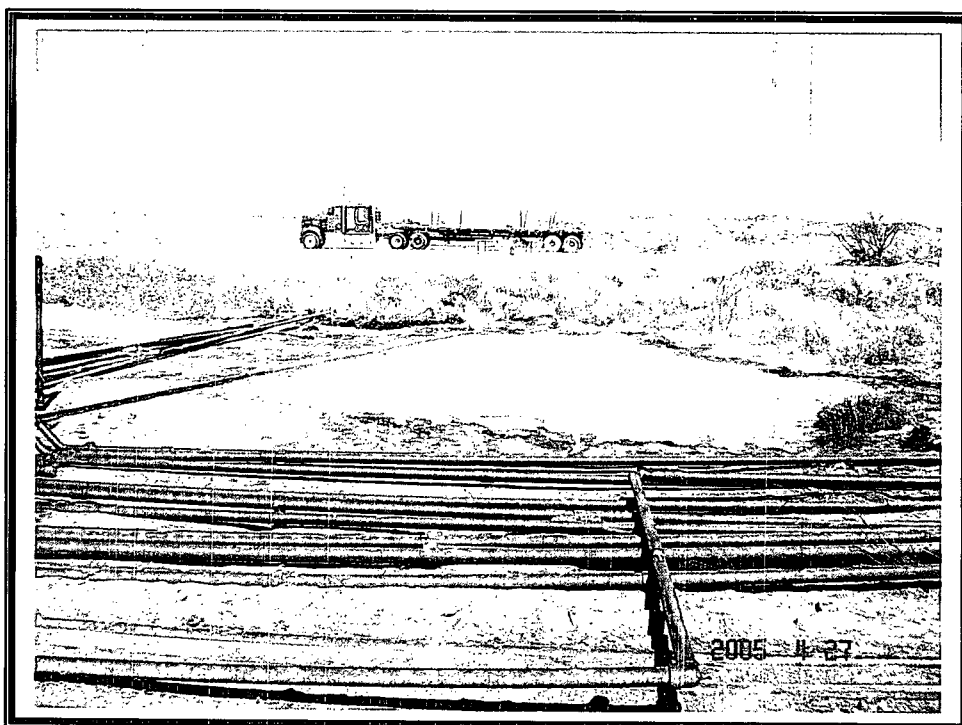
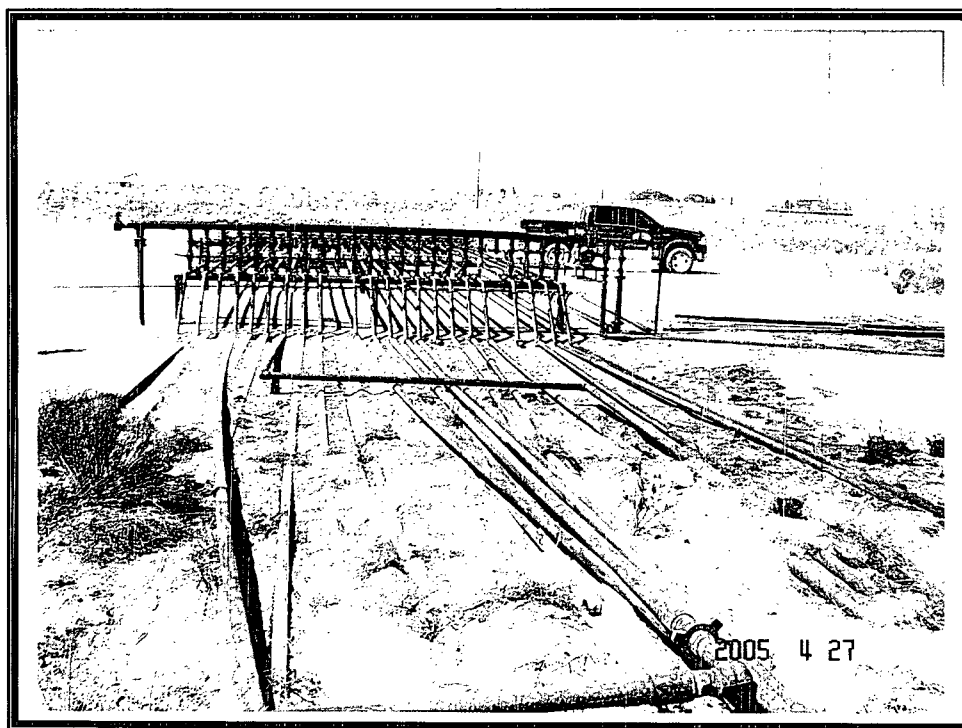
File Name

Appendix III

4-27-05



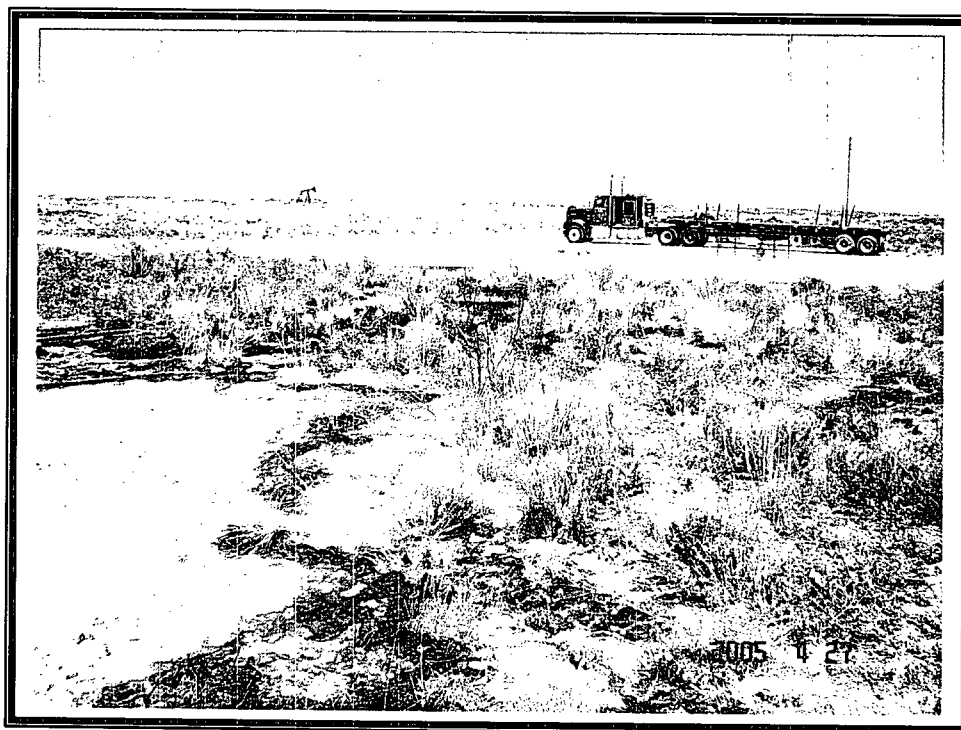
4-27-05



BBC INTERNATIONAL

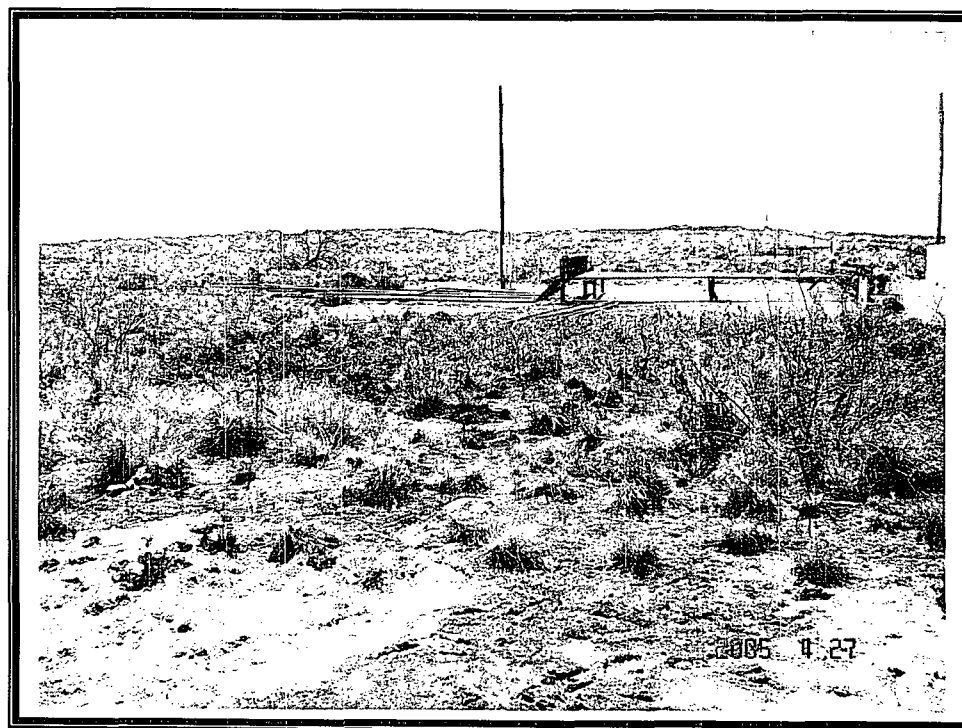
MCA Unit 2 F Production Header

4-27-05



BBC INTERNATIONAL

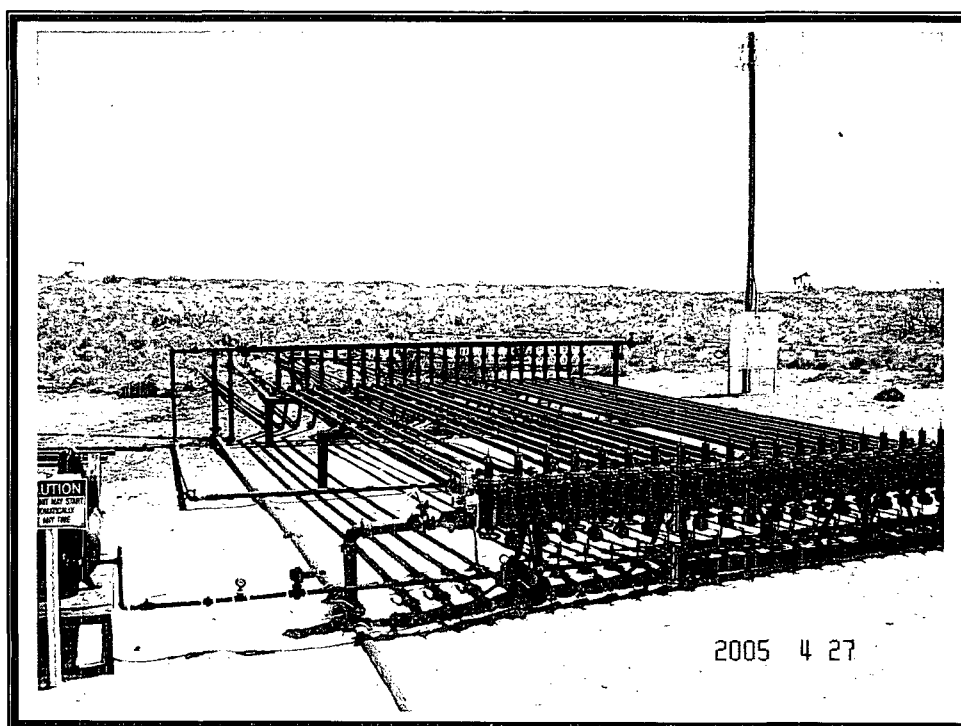
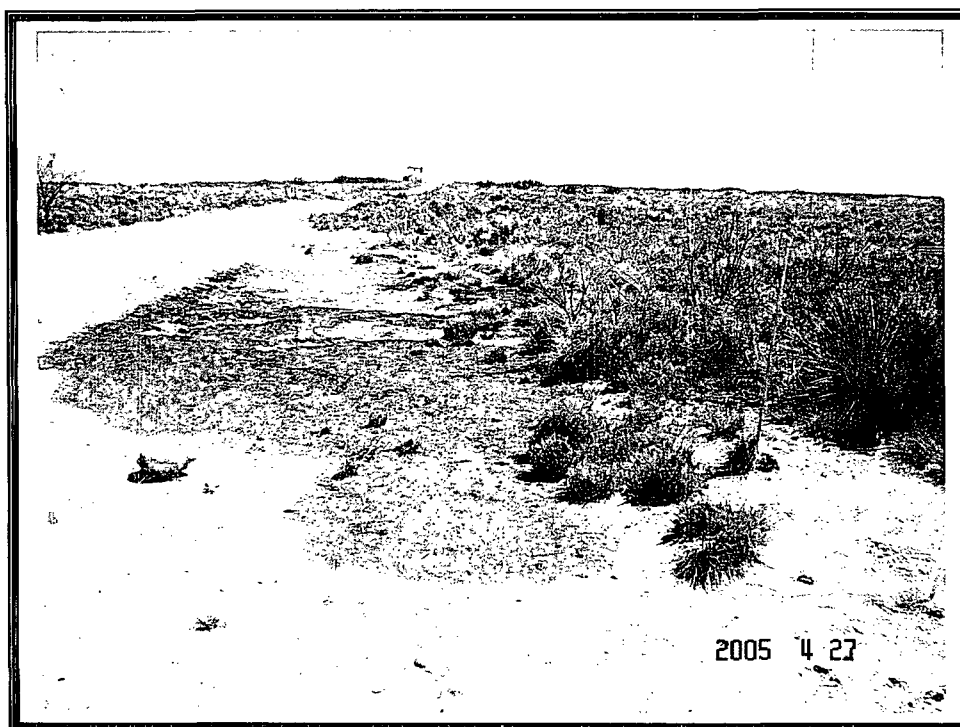
MCA Unit 2 F Production Header
4-27-05



BBC INTERNATIONAL

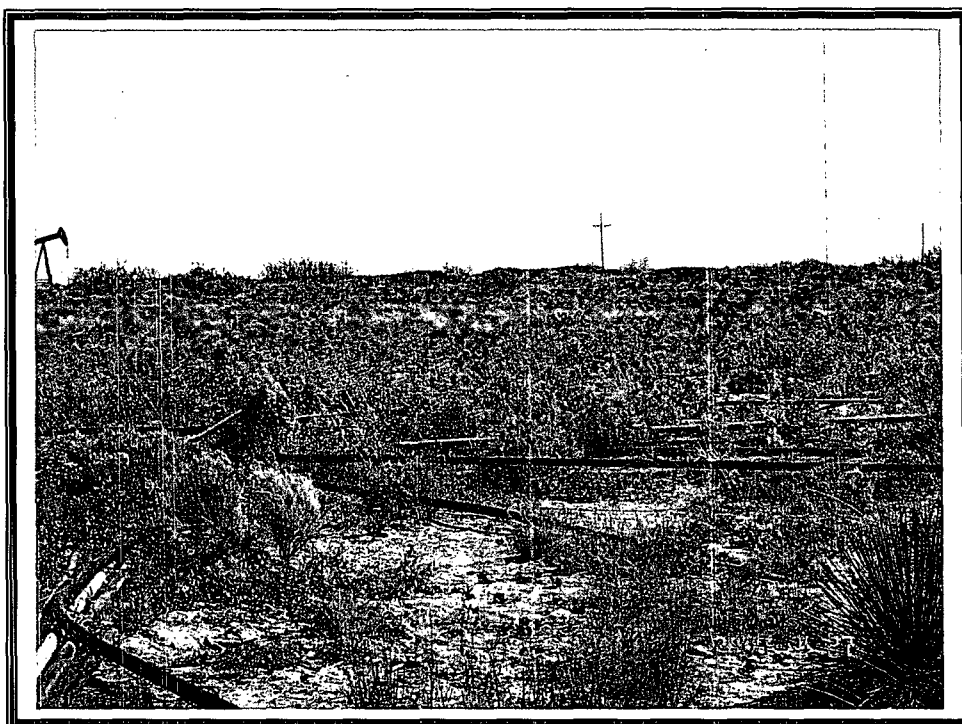
MCA Unit 2 F Production Header

4-27-05



BBC INTERNATIONAL

MCA Unit 2 F Production Header
4-27-05



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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

Action 383446

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	383446
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nPAC0609340050
Incident Name	NPAC0609340050 CONOCOPHILLIPS MCA UNIT 2-F PRODUCTION HEADER @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fPAC0609339814] MCA UNIT 2-F PRODUCTION HEADER

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CONOCOPHILLIPS MCA UNIT 2-F PRODUCTION HEADER
Date Release Discovered	04/13/2005
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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	Cause: Corrosion Flow Line - Production Crude Oil Released: 4 BBL Recovered: 3 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 41 BBL Recovered: 31 BBL Lost: 10 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 383446

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	383446
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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 09/13/2024
--	---

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
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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
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QUESTIONS, Page 3

Action 383446

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	383446
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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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 1000 (ft.) and ½ (mi.)
A subsurface mine	Between ½ and 1 (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)	8000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	922
GRO+DRO	(EPA SW-846 Method 8015M)	524
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	08/31/2005
On what date will (or did) the final sampling or liner inspection occur	06/26/2024
On what date will (or was) the remediation complete(d)	06/26/2024
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 383446

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	383446
	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	No remediation activities are being proposed this time. Any soil exceeding reclamation standards will be removed during facility abandonment.

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: 09/13/2024
--	---

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QUESTIONS, Page 5

Action 383446

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	383446
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

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 6

Action 383446

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	383446
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	357076
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/26/2024
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	8500

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)	Remediation activities were completed historically. Any soil exceeding reclamation standards will be removed during facility abandonment.

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: 09/13/2024
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QUESTIONS, Page 7

Action 383446

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 383446
	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 383446

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	383446
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	9/25/2024
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.	9/25/2024
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.	9/25/2024