

RECEIVED

By Kellie Jones at 9:55 am, Oct 22, 2015

APPROVED

Conditional

By Kellie Jones at 9:55 am, Oct 22, 2015

1. Ensure BLM approval/
concurrence.



Bone Springs Water Flood Central Facility

BLM #NMNM 88523X

Lea County, NM

Work Plan

Kellie Jones
Environmental Specialist
NM Oil Conservation District – Division 1
1625 N. French Dr.
Hobbs, NM 88240

RE: Mewbourne Bone Springs Water Flood Central – Remediation Work Plan

Ms. Jones,

Mewbourne has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southwest of Maljamar, NM, in Lea County. The spill was the result of a lightning strike that burned three tanks and some surrounding equipment.

Site Assessment and Delineation

On August 6, 2015 and August 14, 2015, DFSI personnel obtained 10 surface and BGS (below ground surface) samples of the leak area. Each sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All the clean field samples found under the BLM/NMOCD standards will be taken to a lab for confirmation. Those results are attached.

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 550 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI on behalf of Mewbourne would like to propose the following:

DFSI proposes to remove the contaminated soil in the area of SP #1 to 6" BGS. In the area of SP #2, we will excavate to 1'bgs. In the areas of SP #4, SP #5, SP #9 and SP #10, we will remove down to 2' BGS. The contaminated soil in the area of SP #3 will be excavated to 3' BGS. The areas of SP #7 and SP #8 will be excavated to 4' BGS, and a 20 mil liner will be installed in the area of SP #8. We will further delineate SP #6 during excavation to obtain confirmation samples.

Before backfill, bottom samples will be taken to ensure all contaminants have been remediated. These samples will be taken to an approved lab for confirmation before backfilling. After lab confirmation, the areas will be backfilled with fresh caliche on location and like for like topsoil in the pasture area. The pasture area will be seeded with a BLM approved seed mix. All contaminated materials will be hauled to an approved NM state disposal.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



Michael Burton
Environmental Operations Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)390-5454
Fax: (575)964-8396
Email: mburton@diversifiedfsi.com

cc Shelly Tucker BLM

Attachments: Site/Sample Map
Sample Data
Groundwater survey
Initial C-141

Site Diagram

**Mewbourne, Bone Springs
Waterflood Central Facility
Lea County, NM**

Drafted By: Lance Crenshaw, 8-10-15

0 0.004 0.008 0.016 Miles



Legend

Misc_points

Types

- Electrical Box
- Power Pole
- Headers
- Injection
- Pumpjacks
- Tanks
- Valves
- Other
- Soil Bores
- sample_pts
- Source

Pipeline

Type

- Above Ground Line
- Buried Line

Spill

- <all other values>

Spill_Media

- Oil and Produced H2O
- Oil
- Other
- Produced Water



**Spill Area:
17,616 sq. ft.**

Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental

DFS

Services

Office: 575-964-8394
Fax: 575-964-8396

Cell: 575-441-2359
Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, i-cubed, swisstopo, and the GIS User Community

Diversified Environmental Services

Company Name:	Mewbourne
Location Name:	Water Flood

SP Date: 9/18/2015
Rel Date:

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Diversified Environmental Services

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples



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

September 28, 2015

ZACK THOMAS

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: BONE SPRINGS WATERFLOOD CENTRAL FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 09/21/15 16:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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

Analytical Results For:

MEWBOURNE OIL COMPANY
ZACK THOMAS
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received:	09/21/2015	Sampling Date:	09/21/2015
Reported:	09/28/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H502483-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2015	ND	1.86	93.1	2.00	11.4	
Toluene*	<0.050	0.050	09/23/2015	ND	1.62	80.9	2.00	11.5	
Ethylbenzene*	<0.050	0.050	09/23/2015	ND	1.52	76.2	2.00	11.8	
Total Xylenes*	<0.150	0.150	09/23/2015	ND	4.77	79.5	6.00	10.8	
Total BTX	<0.300	0.300	09/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/23/2015	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	<10.0	10.0	09/24/2015	ND	192	95.8	200	6.90	

Surrogate: 1-Chlorooctane 66.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 74.7 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MEWBOURNE OIL COMPANY
ZACK THOMAS
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received:	09/21/2015	Sampling Date:	09/21/2015
Reported:	09/28/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H502483-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2015	ND	1.86	93.1	2.00	11.4		
Toluene*	<0.050	0.050	09/23/2015	ND	1.62	80.9	2.00	11.5		
Ethylbenzene*	<0.050	0.050	09/23/2015	ND	1.52	76.2	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/23/2015	ND	4.77	79.5	6.00	10.8		
Total BTEx	<0.300	0.300	09/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/23/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	<10.0	10.0	09/24/2015	ND	192	95.8	200	6.90	

Surrogate: 1-Chlorooctane 67.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 75.7 % 52.1-176

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MEWBOURNE OIL COMPANY
ZACK THOMAS
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received:	09/21/2015	Sampling Date:	09/21/2015
Reported:	09/28/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 6' (H502483-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2015	ND	1.86	93.1	2.00	11.4		
Toluene*	<0.050	0.050	09/23/2015	ND	1.62	80.9	2.00	11.5		
Ethylbenzene*	<0.050	0.050	09/23/2015	ND	1.52	76.2	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/23/2015	ND	4.77	79.5	6.00	10.8		
Total BTEx	<0.300	0.300	09/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/23/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	<10.0	10.0	09/24/2015	ND	192	95.8	200	6.90	

Surrogate: 1-Chlorooctane 65.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 71.9 % 52.1-176

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Fax To: (575) 937-6252

Received:	09/21/2015	Sampling Date:	09/21/2015
Reported:	09/28/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 2' (H502483-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2015	ND	1.86	93.1	2.00	11.4		
Toluene*	<0.050	0.050	09/23/2015	ND	1.62	80.9	2.00	11.5		
Ethylbenzene*	<0.050	0.050	09/23/2015	ND	1.52	76.2	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/23/2015	ND	4.77	79.5	6.00	10.8		
Total BTEx	<0.300	0.300	09/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/23/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	<10.0	10.0	09/24/2015	ND	192	95.8	200	6.90	

Surrogate: 1-Chlorooctane 67.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 73.4 % 52.1-176

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Fax To: (575) 937-6252

Received:	09/21/2015	Sampling Date:	09/21/2015
Reported:	09/28/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 3' (H502483-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2015	ND	1.86	93.1	2.00	11.4		
Toluene*	<0.050	0.050	09/23/2015	ND	1.62	80.9	2.00	11.5		
Ethylbenzene*	<0.050	0.050	09/23/2015	ND	1.52	76.2	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/23/2015	ND	4.77	79.5	6.00	10.8		
Total BTEx	<0.300	0.300	09/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/23/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	<10.0	10.0	09/24/2015	ND	192	95.8	200	6.90	

Surrogate: 1-Chlorooctane 74.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 78.8 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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MEWBOURNE OIL COMPANY
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P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received:	09/21/2015	Sampling Date:	09/21/2015
Reported:	09/28/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 1' (H502483-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	09/23/2015	ND	1.86	93.1	2.00	11.4		
Toluene*	7.28	2.00	09/23/2015	ND	1.62	80.9	2.00	11.5		
Ethylbenzene*	6.73	2.00	09/23/2015	ND	1.52	76.2	2.00	11.8		
Total Xylenes*	47.0	6.00	09/23/2015	ND	4.77	79.5	6.00	10.8		
Total BTEX	61.0	12.0	09/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/23/2015	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2630	50.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	13100	50.0	09/24/2015	ND	192	95.8	200	6.90	

Surrogate: 1-Chlorooctane 158 % 47.2-157

Surrogate: 1-Chlorooctadecane 214 % 52.1-176

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Analytical Results For:

MEWBOURNE OIL COMPANY
ZACK THOMAS
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received:	09/21/2015	Sampling Date:	09/21/2015
Reported:	09/28/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 5' (H502483-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2015	ND	1.86	93.1	2.00	11.4		
Toluene*	<0.050	0.050	09/23/2015	ND	1.62	80.9	2.00	11.5		
Ethylbenzene*	<0.050	0.050	09/23/2015	ND	1.52	76.2	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/23/2015	ND	4.77	79.5	6.00	10.8		
Total BTEx	<0.300	0.300	09/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/23/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	<10.0	10.0	09/24/2015	ND	192	95.8	200	6.90	

Surrogate: 1-Chlorooctane 67.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 73.4 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 MEWBOURNE OIL COMPANY
 ZACK THOMAS
 P. O. BOX 5270
 HOBBS NM, 88240
 Fax To: (575) 937-6252

Received:	09/21/2015	Sampling Date:	09/21/2015
Reported:	09/28/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 9 @ 4' (H502483-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2015	ND	1.86	93.1	2.00	11.4		
Toluene*	<0.050	0.050	09/23/2015	ND	1.62	80.9	2.00	11.5		
Ethylbenzene*	<0.050	0.050	09/23/2015	ND	1.52	76.2	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/23/2015	ND	4.77	79.5	6.00	10.8		
Total BTEx	<0.300	0.300	09/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	09/23/2015	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	<10.0	10.0	09/24/2015	ND	192	95.8	200	6.90	

Surrogate: 1-Chlorooctane 64.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 70.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Medbourne</u>		P.O. #: <u>Medbourne</u>	
Project Manager: <u>Zach Thomas</u>		Company: <u>Direct Field 9567</u>	
Address:		Address:	
City:	State:	City:	State:
Phone #:	Fax #:	City:	State:
Project #:	Project Owner:	City:	State:
Project Name: <u>Medbourne</u>		City:	State:
Project Location: <u>Bone Springs Waterflood Central Facility</u>		City:	State:
Sampler Name: <u>Chris Flores</u>		City:	State:
Fax #:		City:	State:
FOR LAB USE ONLY		City:	State:
Lab I.D.	Sample I.D.	DATE	TIME
<u>H502483</u>	<u>SP 1 @ 1'</u>	<u>9-21-2015</u>	<u>8:30 AM</u>
	<u>SP 2 @ 2'</u>		<u>9:00 AM</u>
	<u>SP 3 @ 3'</u>		<u>9:30 AM</u>
	<u>SP 4 @ 4'</u>		<u>10:00 AM</u>
	<u>SP 5 @ 5'</u>		<u>11:00 AM</u>
	<u>SP 6 @ 6'</u>		<u>12:00 PM</u>
	<u>SP 7 @ 7'</u>		<u>1:00 PM</u>
	<u>SP 8 @ 8'</u>		<u>3:00 PM</u>
	<u>SP 9 @ 9'</u>		<u>3:00 PM</u>
	<u>SP 10 @ 10'</u>		<u>3:00 PM</u>
(G)RAB OR (C)OMP.		# CONTAINERS	
GROUNDWATER		WASTEWATER	
SOIL		OIL	
SLUDGE		OTHER:	
ACID/BASE:		ICE / COOL	
OTHER:		OTHER:	
DATE		TIME	
Chloride		TPH	
BTEX			

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Relinquished By: <u>[Signature]</u>	Date: <u>9-21-2015</u>	Received By: <u>[Signature]</u>	Date: <u>9-21-2015</u>
Relinquished By: <u>[Signature]</u>	Time: <u>4:18</u>	Received By: <u>[Signature]</u>	Time: <u>4:18</u>
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <u>[Signature]</u>	
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/>		
	Yes <input type="checkbox"/> No <input type="checkbox"/>		
	Yes <input type="checkbox"/> No <input type="checkbox"/>		

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #: 688 Chris
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #: 9/28/15
REMARKS: Sample ID # 3 changed
Envi to: crenshaw@diversified.com
mburton@
mpantherson@
cflores@

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

September 29, 2015

ZACK THOMAS

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: BONE SPRINGS WATERFLOOD CENTRAL FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 09/28/15 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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

Analytical Results For:

MEWBOURNE OIL COMPANY
ZACK THOMAS
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received:	09/28/2015	Sampling Date:	09/21/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 8 @ 7' (H502565-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2015	ND	2.01	100	2.00	1.66		
Toluene*	<0.050	0.050	09/29/2015	ND	1.72	86.0	2.00	1.99		
Ethylbenzene*	<0.050	0.050	09/29/2015	ND	1.67	83.3	2.00	2.07		
Total Xylenes*	<0.150	0.150	09/29/2015	ND	5.21	86.9	6.00	2.16		
Total BTX	<0.300	0.300	09/29/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	09/29/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/28/2015	ND	167	83.4	200	12.7		
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0		

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MEWBOURNE OIL COMPANY
ZACK THOMAS
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received:	09/28/2015	Sampling Date:	09/21/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	BONE SPRINGS WATERFLOOD CENTRAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 10 @ 5' (H502565-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2015	ND	2.01	100	2.00	1.66		
Toluene*	<0.050	0.050	09/29/2015	ND	1.72	86.0	2.00	1.99		
Ethylbenzene*	<0.050	0.050	09/29/2015	ND	1.67	83.3	2.00	2.07		
Total Xylenes*	<0.150	0.150	09/29/2015	ND	5.21	86.9	6.00	2.16		
Total BTX	<0.300	0.300	09/29/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	09/29/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0	

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 127 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Page 5 of 5

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Mewbourne Oil Company	Contact: Zack Thomas	
Address: PO Box 5270 Hobbs NM 88241	Telephone No. 575-393-5905	
Facility Name: Bone Springs Central Water Flood Facility	Facility Type: Water Flood Injection Facility	
Surface Owner: BLM	Mineral Owner: BLM	API No.

LOCATION OF RELEASE

Unit Letter N	Section 23	Township 18S	Range 32E	Feet from the 660'	North/South Line South	Feet from the 1980'	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	------------------------	------------------------	----------------

Latitude 32.7275472 Longitude -103.7389861

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: estimated 297 bbls	Volume Recovered: 275 bbls PW
Source of Release: Fiberglass water tanks	Date and Hour of Occurrence 7-20-15	Date and Hour of Discovery 7-20-15 4:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones (NMOCD) Jim Amos (BLM)	
By Whom? Zack Thomas	Date and Hour 7-21-15 10:00 am	
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.*

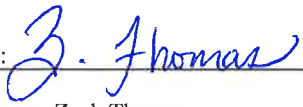
Describe Cause of Problem and Remedial Action Taken.*

The water flood facility was struck by lightning. Upon being struck, the facility caught fire. Maljimar VFD was immediately contacted to extinguish the fire and vacuum trucks were used to recover all standing fluid as soon as the location was deemed safe.

Describe Area Affected and Cleanup Action Taken.*

Affected area- The produced water leaked over the secondary containment behind location toward the North (100 ft by 40 ft) and Northwest (18 ft by 125 ft). Vacuum trucks recovered 225 bbls from the secondary containment and 50 bbls from pasture area. Final remediation will be conducted in accordance with the NMOCD's Guidelines for Remediation of Spills, Leaks and Releases.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Zack Thomas		Approved by Environmental Specialist:	
Title: Environmental Rep.		Approval Date:	Expiration Date:
E-mail Address: zthomas@mewbourne.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-22-15 Phone: 575-602-2188			

* Attach Additional Sheets If Necessary



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00677			LE	1	1	26	18S	32E		617750	3621373*	700		
CP 00808			LE	4	4	26	18S	32E		618973	3620178*	400		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

Basin/County Search:

County: Lea

PLSS Search:

Section(s): 23, 22, 24, 14, 26 Township: 18S Range: 32E

*UTM location was derived from PLSS - see Help

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.

From: [Tucker, Shelly](#)
To: [Zack Thomas](#)
Cc: [Jones, Kellie, EMNRD](#); [Michael Burton](#)
Subject: Re: Bone springs Water flood facility
Date: Monday, October 19, 2015 9:44:10 AM
Attachments: [image001.png](#)

Upon review of your submitted work plan, BLM accepts/approves with the following stipulations:

1. SP#3 will need to be excavated to a depth of 4'.
2. Confirmation samples will be required on all bottom hole depths.

The BLM approval/acceptance does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



On Mon, Oct 19, 2015 at 7:38 AM, Zack Thomas <zthomas@mewbourne.com> wrote:

If there are any questions or concerns let me know. Thank you



Zack Thomas

Environmental Rep.

Mewbourne Oil Company

[PO Box 5270](#)

Hobbs, NM 88241 US

Phone: (575) 393-5905 | Fax: (575) 397-6252
(575) 602-2188

Email: zthomas@Mewbourne.com