# **Closure Report**

RECEIVED	7
AUG 1 2 2013	 
INMOCD ARTESIA	

Site Description		ANTESIA
Site Name:	MH Fed Com #1 N SWD	
Company:	Oxy Permian Ltd.	
Legal Description:	U/L N, Section 1, T22S, R24E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.41479° W 103.45555°	

Release Data		
Date of Release:	06/05/2012	
Type of Release:	Produced Water	
Source of Release:	Charge pump did not start	
Volume of Release:	95 bbls	
Volume Recovered:	90 bbls	

Remediation Specifications				
Remediation Parameters:	Excavate the entire spill area to a depth of 1 foot. Collect a minimum of 3 composite bottom, and sidewall confirmation samples and test them for TPH and BTEX. Then, backfill the site with clean soil.			
Remediation Activities:	06/10/2013 to 07/31/2013			

Plan Sent to OCD:	09/11/2012	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/14/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	12/16/2012	Email from Cliff Brunson to Terry Gregston
BLM Approval of Plan:	01/14/2013	Email from Terry Gregston to Cliff Brunson

Supporting Documentation			
Initial C-141	Signed 06/07/2012		
Final C-141	Signed 08/09/2013		
Site Diagram	June 2012		
Groundwater Plot	<50'		
TOPO Maps	June 2012	-	
Lab Summary	07/05/2012 and 06/19/2013		
Lab Analysis	07/05/2012 and 06/19/2013		
Correspondence	Request and approval of remediation plan via email		

# Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

08/09/2013

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 Revised October 10, 2003 ubmit 2 Copies to appropriate

Form C-141

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

Attached

#### Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Name of Company Oxy Permian Ltd Contact Christopher Jones Address 1502 W. Commerce Dr., Carlsbad, NM Telephone No. (575) 628-4121 Facility Name MH Fed Com #1 N SWD Facility Type Salt water disposal Mineral Owner Surface Owner Lease No. NM#53219 API#30-015-22782 LOCATION OF RELEASE North/South Line Feet from the Feet from the Unit Letter Section Township Range East/West Line N 22S 24E 660' S 1650 W Eddy County, NM Latitude N 32.41479 Longitude W 103.45555 NATURE OF RELEASE Type of Release Produced water Volume of Release 95 bbls Volume Recovered 90 bbls Date and Hour of Occurrence Source of Release Charge pump did not start Date and Hour of Discovery 06/05/12@ 06/05/12@ Was Immediate Notice Given? If YES, To Whom? Mike Bratcher- OCD; Terry Gregston- BLM Date and Hour 06/06/12 @ 1:03 pm Christopher Jones By Whom? If YES, Volume Impacting the Watercourse Was a Watercourse Reached? ☐ Yes ⊠ No RECEIVED If a Watercourse was Impacted, Describe Fully.\* AUG 1 2 2013 NMOCD ARTESIA Describe Cause of Problem and Remedial Action Taken.\* Failure of a charge pump to start caused 95 bbls of produced water to leak onto the ground. 90 bbls of produced water were recovered via vacuum truck. Describe Area Affected and Cleanup Action Taken.\* Failure of a charge pump to start caused 95 bbls of produced water to leak onto the ground. 90 bbls of produced water were recovered via vacuum truck. Remediation will be performed in accordance with an OCD and BLM approved plan. 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 NMQCD 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: Christopher Jones Title: HES Specialist Approval Date: **Expiration Date:**

Conditions of Approval:

E-mail Address: Christopher Jones@oxy.com

Phone: (575) 628-4121

<sup>\*</sup> 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

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Conditions of Approval:

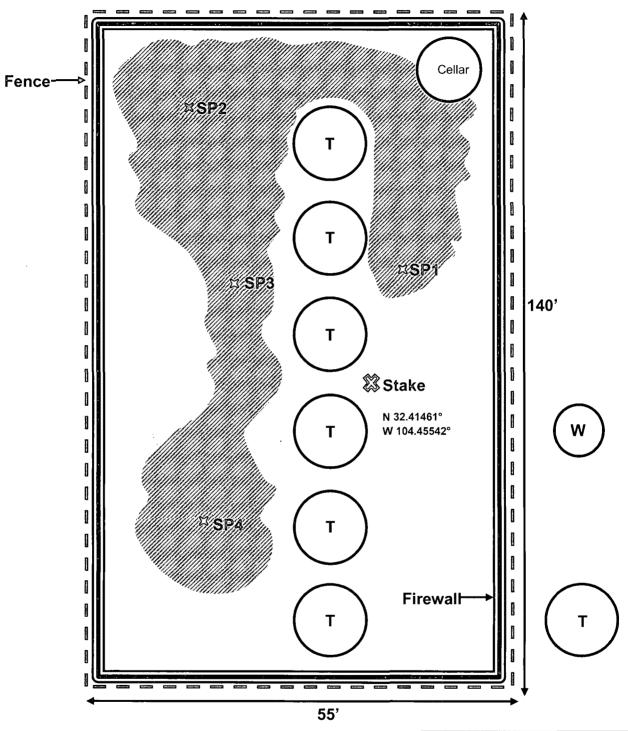
Christopher Jones@oxy.com

Phone: (575) 628-4121

<sup>\*</sup> Attach Additional Sheets If Necessary

N 1

# Oxy MH Fed Com #1 N SWD



Oxy, MH Fed Com #1 N SWD U/L N, Section 1, T22S, R24E 660' FSL and 1650' FWL Eddy County, NM N 32.41479 W 104.45555 Lease # NM 53219 API#30-015-22782

BBC International, Inc.					
C	Оху				
MH Fed Com #1 N SWD					
Date: 06/07/2012 DRWG by: K Purvis					

Date: 06/07/2012	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2012



# **Groundwater Plot**

# Oxy MH Fed Com #1 N SWD

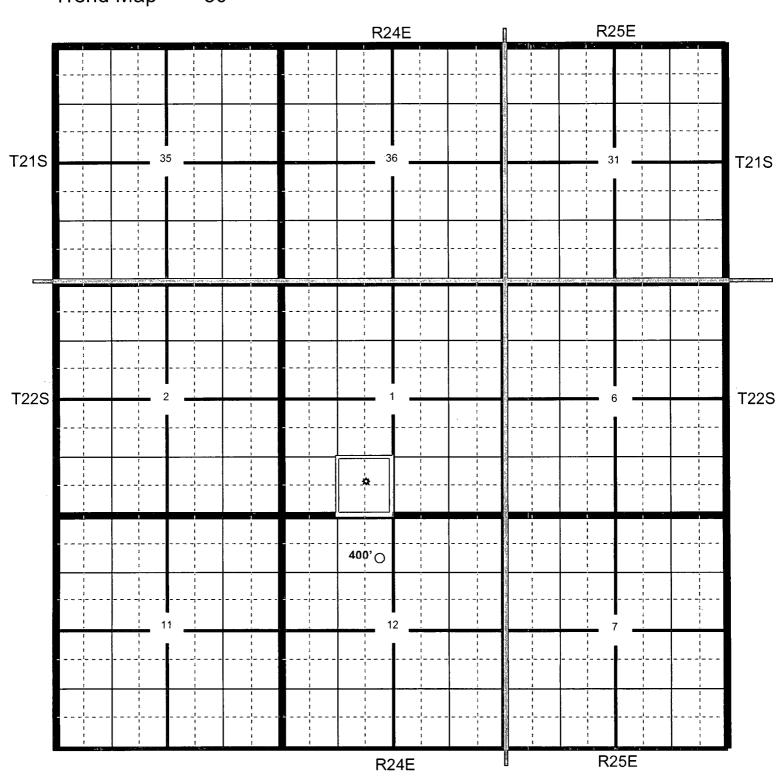
County Eddy Unit Letter

Section

Township 22S Range 24E

Trend Map

<50'





# Section Quarters

# Oxy MH Fed Com #1 N SWD

County Eddy Unit Letter

Section

Township 22S Range 24E

Trend Map <50'

1

2

NW/NW	NE/NW	NW/NE	NE/NE
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3

4

**♣** Location

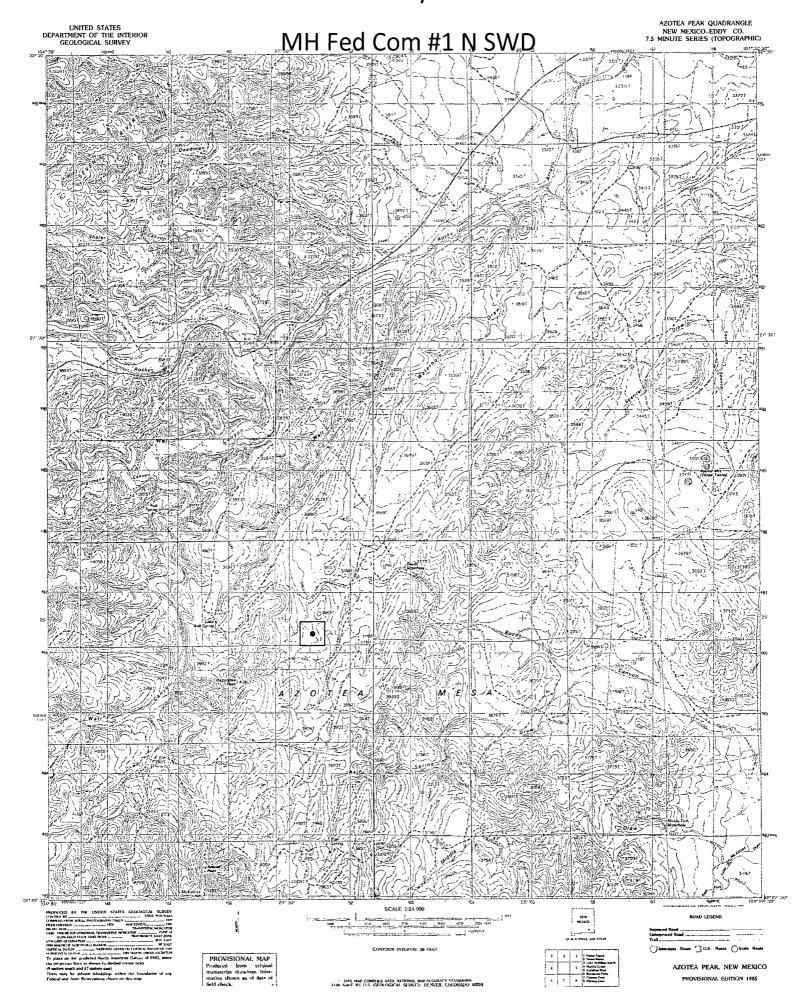
o OCD

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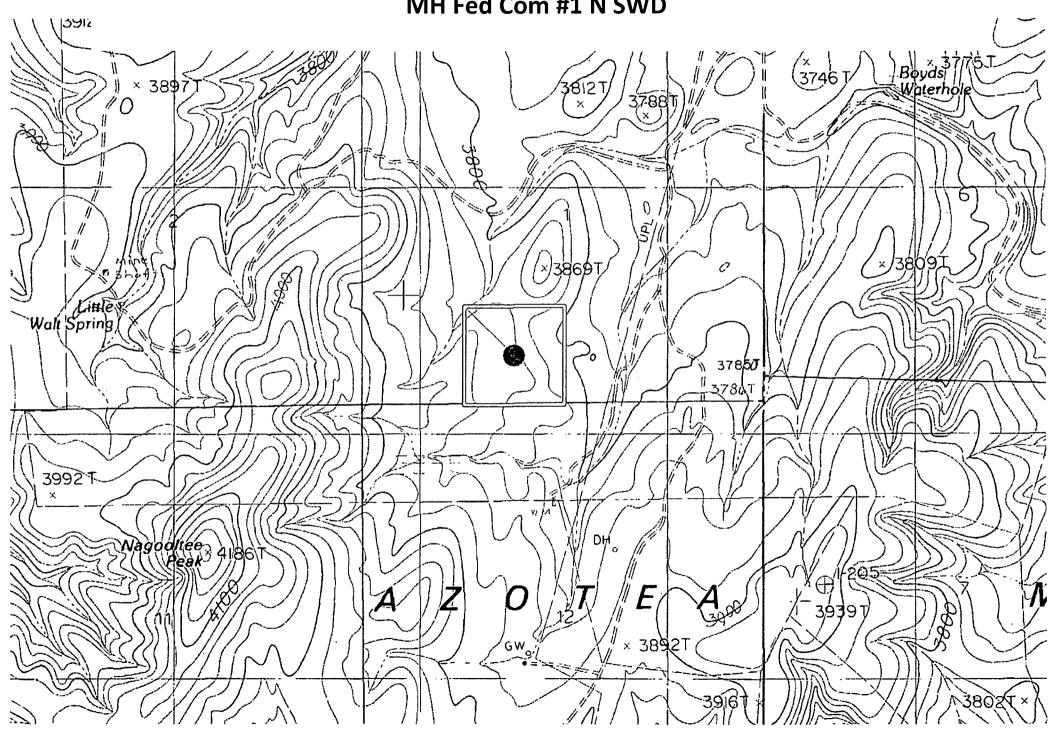
All Databases

# Oxy



Oxy

# MH Fed Com #1 N SWD



# Laboratory Analytical Results Summary OXY, MH Fed Com #1 NSWD

		Sample	SP1 @ SURFACE	SP1 @ 6"	SP1 @ 1'
Analyte	Method	Date	7/5/12	7/5/12	7/5/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4720	480	272

		Sample	SP2 @ SURFACE	SP2 @ 6"	SP2 @ 1'
Analyte	Method	Date	7/5/12	7/5/12	7/5/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2000	192	336

		Sample	SP3 @ SURFACE	SP3 @ 6"	SP3 @ 1'
Analyte	Method	Date	7/5/12	7/5/12	7/5/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2360	192	352

		Sample	SP4 @ SURFACE	SP4 @ 6"	SP4 @ 1'
Analyte	Method	Date	7/5/12	7/5/12	7/5/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2040	224	352

# Laboratory Analytical Results Summary MH Fed Com #1 N SWD

		Sample	SP1 @ East Wall	SP2 @ North Wall	SP3 @ West Wall	SP4 @ South Wall
Analyte	Method	Date	6/19/13	6/19/13	6/19/13	6/19/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		144	128	144	176

		Sample	SP5 @ 3. Point Composite at 1'	SP6 @ 3-Point Composite at 1'	SP7 @ 3-Point Composite at 1'
Analyte	Method	Date	6/19/13	6/19/13	6/19/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	< 0.300	<0.300
Chloride	SM4500CI-B		<16.0	<16.0	144
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		23.1	21.6	<10.0



July 10, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MH FED COM 1 N SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/06/12 13:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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.

Lope S. Moreno

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,

Hope Moreno

Inorganic Technical Director



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241 Fax To: (505) 397-0397

Received:

07/06/2012

Sampling Date:

07/05/2012

Reported:

Chloride, SM4500CI-B

07/10/2012

Sampling Type:

Soil

Project Name:

MH FED COM 1 N SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

N. CARLSBAD

mg/kg

### Sample ID: SP 1 @ SURFACE (H201537-01)

	****5	, ··· <del>y</del>							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride 4720</b> 16.0		07/10/2012	ND	416	104	400	3.92		
Sample ID: SP 1 @ 6" (F	-		A 1	4 D 4 D					
Chloride, SM4500Cl-B	mg	/kg	Anaiyze	d By: AP	~	· · · · · ·		<del></del>	<del></del>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/10/2012	ND	416	104	400	3.92	
Sample ID: SP 1 @ 1' (H Chloride, SM4500CI-B Analyte	-	/kg Reporting Limit	<b>Analyze</b> Analyzed	d By: AP  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ŕ			•			,	•		Qualifier
Chloride	272	16.0	07/10/2012	ND	416	104	400	3.92	
Sample ID: SP 2 @ SUR	FACE (H20153	37-04)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/10/2012	, ND	416	104	400	3.92	

Analyzed By: AP

Cardinal Laboratories \*=Accredited Analyte

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Lope S. Moreno

Hope Moreno, Inorganic Technical Director



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To:

(505) 397-0397

Received:

07/06/2012

Sampling Date:

07/05/2012

Reported:

07/10/2012

Sampling Type:

True Value QC

400

RPD

3.92

Qualifier

Project Name:

MH FED COM 1 N SWD

Sampling Condition:

Cool & Intact

Project Number: Project Location:

Analyte

Chloride

NONE GIVEN N. CARLSBAD

Result

336

Reporting Limit

16.0

Sample Received By:

BS

416

% Recovery

104

Jodi Henson

Sample ID: SP 2 @ 6" (H201537-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/10/2012	ND	416	104	400	3.92	
Sample ID: SP 2 @ 1' (H2		/kg	Analyze	ed By: AP					

Method Blank

ND

Analyzed

07/10/2012

Sample ID: SP	3	@	SURFACE	(H201537-07)

Chloride, SM4500CI-B	Analyzed	1 By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/10/2012	ND	416	104	400	3.92	

#### Sample ID: SP 3 @ 6" (H201537-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/10/2012	ND	416	104	400	3.92	

## Sample ID: SP 3 @ 1' (H201537-09)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/10/2012	ND	416	104	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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Lope S. Moreno Hope Moreno, Inorganic Technical Director



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To:

(505) 397-0397

Received:

07/06/2012

Sampling Date:

07/05/2012

Reported:

07/10/2012

Sampling Type:

Soil

Project Name:

MH FED COM 1 N SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

N. CARLSBAD

#### Sample ID: SP 4 @ SURFACE (H201537-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP		···			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/10/2012	ND	416	104	400	3.92	
Sample ID: SP 4 @ 6" (	H201537-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/10/2012	ND	416	104	400	3.92	
Sample ID: SP 4 @ 1'(F	H201537-12)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/10/2012	ND	416	104	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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Hope S. Moreno

Hope Moreno, Inorganic Technical Director



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Lope S. Moreno

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247																								
Company Name	BBC International, Inc.						-	1		B	IL	470	離る					ANA	LYSIS	RE	QUE	ST			
Project Manager	: Cliff Brunson								D. #:																
Address: P.O.	Box 805							Со	mpa	ny:					ļ	İ									}
city: Hobbs	State: NM	Zip	: 8	82	41			Attn:						İ											
Phone #: 575-3	397-6388 Fax #: 575-	39	7-03	397	•	•		Ad	dre	ss:		2								ļ				Ì	
Project #: /b	Project Owner	: O	ху					Cit	y:		٠٠ <i>٠</i>	17/			İ										
Project Name:	MH Fed Com 1 N SWD					~~~		State: Zip:						1									1		
	n: N. Carlsbad							Phone #:																	
Sampler Name:	Roger Hernandez							Fa	x #:											ļ					1
FOR LAB USE ONLY		,				ATR	RIX		PRI	SER	V.	SAMPLI	ING												1
Lab I.D. <u>H201537</u>	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	7/5/19 DATE	y TIME	**************************************	,										
1	SP1 @ Surface		L									7/15/12	10:15 am	1			ļ								
2	SP1 @ 6"		<u>:</u>	******				_				7/15/12	10:35 am	✓											
7,	SP1 @ 1'	ļ	<u>  :</u>			-:]_						7/15/12	10:58 am												
4	SP2 @ Surface	_	Ŀ					_	ļ			7/45/12	11:20 am		-	_			.						<u> </u>
	SP2 @ 6"	Ŀ	Ŀ			1			1			7/45/12	11:40 am			ļ		_	<u> </u>						ļ
	SP2 @ 1'	ļ	1				_ -	_ _	_			7/15/12	12:05 pm		<u> </u>			_	ļ			_		ļ	
~7_	SP3 @ Surface	_	٢.				_	_ _				7/15/12	12:19 pm	- <u>-</u> -		_				.	.	-		ļ	<u> </u>
***************************************	SP3 @ 6"	_	. [ ]					_	<u> </u>			7/15/12	12:38 pm		_		.			<u>  </u> _	.		-	<b> </b>	ļ
-1	SP3 @ 1'		1.		ļ		-				ļ	<i>71</i> 15/12	12:59 pm	[√.			.].								
10	SP4 @ Surface and Damages, Carolinal's highlight and clean's exclusive remody for a	L	17	<u> </u>					$oldsymbol{ol}}}}}}}}}}}}}$			7415/12	1:17 pm	$\checkmark$	<u> </u>		<u> </u>	<u>L.</u>	<u> </u>		<u> </u>	Щ.	1	L	<u> </u>

PLEASE NOTE: Litativy and Danagos. Customas allowing one care with a scalar or scalar and assess on scalar of tart, state in a maken to the amount pain by the distinct of the analysis. All claims including those for registerior and my other cause without bowered wained unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be fable for incidental or consequental damages, including without limitation, hustings interruptions, loss of use, or loss of profits incurred by client, its subsidiarities,

attributes or successors prising out of or related to the performance	of corvicus hereunder by C	ardinal regardless of wholner such claim is base	ed upon any of the above stated re-	acons or othorwise.			
Relinquished By:	Date:	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:
	7-6-12			Fax Result:	☐ Yes	□ No	Add'i Fax #:
15000 8/0	Time:	1 / / / /		REMARKS:			
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Sampler - UPS - Bus - Other:		Yes El Yos	(Initials)				
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: BBC International, Inc.						414	, g	B	ILL	70	ANALYSIS REQUEST															
Project Manage	r: Cliff Brunson								P.O	, #:																
Address: P.O	. Box 805								Company:				]													
city: Hobbs		State: NM	Zip	: 8	824	1			Attn:		····												i			
Phone #: 575-	397-6388	Fax #: 575	-39	7-00	397				Address						.]				l							
Project #: N	<u> </u>	Project Owner	. O	(y					City:						_	ĺ									i 1	
	MH Fed Com 1 N SW	/D							State: Zip:			<u> </u>														
Project Locatio	n: N. Carlsbad								Pho	one	#:					İ										
Sampler Name:	Roger Hernande	ez			,				Fax						4	ŀ		ŀ							i 1	
Lab I.D.	Sample I.I	<b>D</b> .	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	7	TRI	SLUDGE				O HEX	SAMPLI 1/5/12 DATE													
11	SP4 @ 6"		<u></u>	;		·					<u>\</u>	-7./	45/12	1:32 pm						<u> </u>						
12	SP4 @ 1'			1			1					<b>4</b> ,	45/12	1:43 pm	_ ✓			-		ļ			ļ			
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analyses, All cluims. Includ service, In no event shall	and Damages. Cardinel's hability and clier fing those for negligence and any other ca Cardinul be liable for inclaental or conseq sirst out of or retated to the performance of	ause whatsoover shalt be uental dantages, includin	deame g witho	d walv ut limit	ed uni <b>c</b> s ation, bu	s made sinoss i	in writ nterruj	ling and ptions, l	racei loss of	ved by Lus <del>e</del> , c	/ Cardin ar loss c	ial withi of profit	n 30 days eft s incurred by	er completion of client, its auboid	the applic lieries,	able			::					· · · · · · · · · · · · · · · · · · ·		
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mpler - UPS - Bus - Other:

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



June 25, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MH FED COM 1 N SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/19/13 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/19/2013

Sampling Date:

06/19/2013

Reported:

06/25/2013

Sampling Type:

Soil

Project Name:

MH FED COM 1 N SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

N. CARLSBAD

Sample ID: SP 1 @ WALL (H301423-01)

mg/	k
-----	---

#### Analyzed By: DW

	Analyte
Chloride	

Result

144

Reporting Limit 16.0

Analyzed 06/21/2013 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD

Qualifier

Sample ID: SP 2 @ N. WALL (H301423-02)

Chloride, SM4500Cl-B	
----------------------	--

Analyte

Analyte

Analyte

Analyzed By: DW

Reporting Limit

16.0

Reporting Limit

16.0

16.0

Analyzed

Method Blank

RS % Recovery

True Value QC

400

0.00

Chloride

128

Result

Result

144

176

06/21/2013

Analyzed

ND

Method Blank

ND

ND

416

104

RPD

0.00

Qualifier

Chloride

Sample ID: SP 3 @ W. WALL (H301423-03)

Analyzed By: DW

BS

% Recovery

True Value QC

06/24/2013

432

108

108

400

RPD 3.77

Qualifier

Sample ID: SP 4 @ S. WALL (H301423-04)

# Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Chloride

Result

Reporting Limit Analyzed

Method Blank 06/24/2013

BS

% Recovery 432

True Value QC 400

RPD 3.77 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keine



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: Reported: 06/19/2013

06/25/2013

Project Name: Project Number: MH FED COM 1 N SWD

Project Location:

NONE GIVEN N. CARLSBAD Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Sample Received By:

Cool & Intact

06/19/2013

Jodi Henson

Sample ID: SP 5 @ 3. COMP 1' (H301423-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	< 0.050	0.050	06/21/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	< 0.050	0.050	06/21/2013	ND	2.11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/21/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/21/2013	ND			•		
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 89.4-12	6			-			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/21/2013	ND	213	106	200	0.956	
DRO >C10-C28	23.1	10.0	06/21/2013	ND	213	106	200	3.66	
Surrogate: 1-Chlorooctane	88.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.0	% 63.6-15	4						

------

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keine



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/19/2013

Sampling Date:

06/19/2013

Reported:

Sampling Type:

Soil

06/25/2013

Sampling Condition:

Cool & Intact

Project Name: Project Number: MH FED COM 1 N SWD NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

N. CARLSBAD

Sample ID: SP 6 @ 3. COMP 1' (H301423-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	<0.050	0.050	06/21/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	06/21/2013	ND	2.11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/21/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/21/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 9	% 89.4-12	6						-
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/21/2013	ND	213	106	200	0.956	
DRO >C10-C28	21.6	10.0	06/21/2013	ND	213	106	200	3.66	
Surrogate: 1-Chlorooctane	83.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	85.8	% 63.6-15	4						

Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keine



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241

(575) 397-0397 Fax To:

Received:

06/19/2013

Sampling Date:

06/19/2013

Reported:

06/25/2013

Sampling Type:

Soil

Project Name:

MH FED COM 1 N SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

N. CARLSBAD

Sample ID: SP 7 @ 3. COMP 1' (H301423-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2013	ND	1.81	90.7	2.00	8.53	
Toluene*	<0.050	0.050	06/21/2013	ND	1.95	97.5	2.00	7.49	
Ethylbenzene*	< 0.050	0.050	06/21/2013	ND	2,11	106	2.00	7.27	
Total Xylenes*	<0.150	0.150	06/21/2013	ND	6.35	106	6.00	6.93	
Total BTEX	<0.300	0.300	06/21/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	116 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/24/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS	···				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/21/2013	ND	213	106	200	0.956	
DRO >C10-C28	<10.0	10.0	06/21/2013	. ND	213	106	200	3.66	
Surrogate: 1-Chlorooctane	89.6	% 65.2-14	0	· · ·					
Sugar and a 1 Chland of decimal	0.13	0/ /2//							

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



ND

#### **Notes and Definitions**

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keine

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

(505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. ANALYSIS REQUEST BILL TO Project Manager: Cliff Brunson P.O. #: Address: P.O. Box 805 Company: State: NM zip: 88241 city: Hobbs Attn: Phone #: 575-397-6388 Fax #: 575-397-0397 Address: 🚄 Project #: Project Owner: 7 X 1/ City: Project Name: M. H-State: Zip: Project Location: Phone #: Sampler Name: Fax #: FOR LAB USE ONLY MATRIX PRESERV. SAMPLING Sample I.D. Lab I.D. H301423 DATE TIME 1045

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 emount paid by the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without similation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By	Date:	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:		
	10-19-13			Fax Result:	☐ Yes	□ No	Add'l Fax #:		
	Time: 1:00		/ >	REMARKS:					
Relinquished By:	Date: /4/12	Received By:	11					1	
	Time?Ic	Inni 1	Youkma				•	•	
	+ 3.75	were	MUNON C					•	·
Delivered By: (Circle One)		Sample Con					*		
Sampler - UPS - Bus - Other:		179 Pres P	Yes / +						
		I LU LI NO LI	No 6//	<u> </u>					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-476

#54

## **Kathy Purvis**

From: Cliff P. Brunson <cbrunson@bbcinternational.com>

Sent: Wednesday, November 28, 2012 10:56 AM

To: Kathy Purvis

**Subject:** FW: MH Fed Com #1 N SWD

From: Mike Bratcher < mike.bratcher@state.nm.us > Date: Wednesday, November 14, 2012 2:25 PM
To: Cliff Brunson < cbrunson@bbcinternational.com >

Cc: Chris Jones < Christopher Jones@oxy.com >, Ken Swinney < kswinney@bbcinternational.com >, Kathy Purvis

< kathy@bbcinternational.com >, Jennifer Gilkey < jgilkey@bbcinternational.com >

Subject: RE: MH Fed Com #1 N SWD

Reference: OXY USA \* MH Fed Com SWD 1 \* 30-015-22782 \* N-1-22s-24e \* Eddy County, New Mexico OCD Reference Number: 2RP-1171 \* Date of release: 6/5/12

Cliff,

Your proposal for remediation of the above referenced release is approved with the following conditions/stipulations:

- Notify OCD 48 hours prior to commencement of remedial operations.
- Notify OCD 48 hours prior to obtaining samples where the analyses are to be submitted to OCD.
- Obtain representative confirmation samples of bottom and sidewalls of excavation.
- Obtain a minimum of three composite samples from representative areas of the excavation bottom and test for TPH/BTEX.
- Obtain approval prior to backfilling excavations.
- Submit a closure report and Form C-141 marked Final Report upon satisfactory completion of project.
- Approval by BLM and/or any other regulatory authority as may be applicable.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108

C: 575-626-0857 F: 575-748-9720 From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Tuesday, September 11, 2012 6:47 PM

To: Bratcher, Mike, EMNRD

Cc: Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey

Subject: MH Fed Com #1 N SWD

Mike.

This e-mail is to confirm our discussion on September 5, 2012 concerning the remediation plan for the release that occurred at the Oxy MH Fed Com #1 N SWD. As agreed, Oxy will excavate to a depth of 1 foot across the entire spill area as depicted on the attached site diagram. The excavation will then be backfilled with clean soil. The depth to groundwater is this area is approximately 50 feet.

I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com

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\*\*\*\*\*\*\*\*\*\*\*\*

## **Kathy Purvis**

From: Gregston, Terry G <tgregsto@blm.gov>
Sent: Monday, January 14, 2013 10:57 AM

To: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Amos, James A

Cc: mike.bratcher@state.nm.us

Subject: Undesirable Event: NU12134TG, M H Federal 1: cleanup plan approval stipulations

Mr. Jones, Mr. Brunson,

This notification is in regard to the following location and undesirable event:

Event Number: NU12134TG Event Date: 6/5/2012 Event Name: M H Federal 1 Legals: T22S/R24E, sec. 1, SESW

The submitted cleanup plan for the above location is approved with the following conditions of approval:

### **Notification Stipulations:**

1. A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.

# 2. The authorized officer must be notified at the following phases of cleanup or conditions:

- a. Prior to moving equipment on location for cleanup
- b. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.
- c. When the cleanup work is nearing completion and to schedule a final onsite prior to removal of equipment.
- d. Three days before the site is seeded.
- e. Any time that a variance of the approved plan or conditions of approval is required.
- f. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.
- 3. The authorized officer on this undesirable event case is:

Terry Gregston (575) 361-2635 tgregsto@blm.gov

## **Archeology Stipulations:**

1. There are no known archeological issues on this location.

In the event that archeological artifacts are discovered during cleanup operations, contact the authorized officer on this case immediately. An onsite will be required to assess the situation.

## **Facility Cleanup Stipulations:**

## Unlined facility:

1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures. In this case, the location is still a working tank battery location. As such, excavation depths in portions of the spill area in close proximity to standing production equipment may be limited due to safety concerns. In such cases, the cleanup measures will be considered a temporary spill abatement measure that will be further mitigated upon the abandonment of the well/facility location. Appropriate notations to that effect will be entered in the well file.

- 2. Cleanup will include removal of any contaminated berm materials and/or unsuitable berm materials such as sandy soils, gravels, or cobblestones. Tank battery berms should be built of compactable caliche that is capable of fluid containment.
- 3. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule.
- 4. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.
- 5. Once final approval of cleanup is given, the excavation can be backfilled with compactable caliche to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
- 6. Install secondary containment berms of good quality compactable caliche around existing production equipment and the pad to prevent future spills from being released off the facility location.
- 7. Restore, recontour, and reseed any pasture disturbances that were created during the cleanup operations.

#### Other Stipulations:

- 1. At the time of the final onsite for this location, the production facilities, well pad, access road, and the surrounding pasture areas must be in a condition that will pass a routine inspection.
- 2. All household trash, debris, disconnected pipe and equipment must be removed from the area and the surrounding pasture and hauled to an authorized landfill. Do not bury cleanup trash, equipment debris, or household garbage in the cleanup excavation.

BLM approval of this proposal 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 location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until 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.

Thank you for your attention to this matter,

## **Terry Gregston**

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