

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

HOBBS OCD

MAY 21 2014

RECEIVED

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

9JXK1535150488

4832

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	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	MLMU #246	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	API No. 30-025-11049

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	7	24S	37E	660	South	1980	East	Lea County, NM

Latitude N 32.23373° Longitude W 103.19889°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	20 bbls	Volume Recovered	0 bbls
Source of Release	Leak in a 1" stainless steel injection line at the injection header	Date and Hour of Occurrence	01/08/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-NMOCD, Jennifer Van Curen-BLM		
By Whom?	Kathy Purvis	Date and Hour	01/09/2014 @ 3:42 pm		
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.\*

A leak in the 1 inch stainless steel injection line at the injection header caused 20 bbls of produced water to spill onto the ground. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 50' x 40' and included the area immediately surrounding the header and flowed East into the pasture and/or red clay sand. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking of NMOCD via email on 4/7/2014 and approved by Jennifer Van Curen of the BLM via email on 4/22/2014.

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: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Chancey Summers		Approved by Environmental Specialist:	
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>5-19-14</u>	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary



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MAY 21 2014

RECEIVED

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
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Form C-141  
Revised August 8, 2011

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accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	MLMU #246	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	API No. 30-025-11049

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	7	24S	37E	660	South	1980	East	Lea County, NM

Latitude N 32.23373° Longitude W 103.19889°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	20 bbls	Volume Recovered	0 bbls
Source of Release	Leak in a 1" stainless steel injection line at the injection header	Date and Hour of Occurrence	01/08/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-NMOCD, Jennifer Van Curen-BLM		
By Whom?	Kathy Purvis	Date and Hour	01/09/2014 @ 3:42 pm		
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.\*

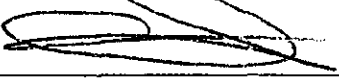
Describe Cause of Problem and Remedial Action Taken.\*

A leak in the 1 inch stainless steel injection line at the injection header caused 20 bbls of produced water to spill onto the ground. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 50' x 40' and included the area immediately surrounding the header and flowed East into the pasture and/or red clay sand. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Chancey Summers	Approved by Environmental Specialist:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: <a href="mailto:Chancey.Summers@oxy.com">Chancey.Summers@oxy.com</a>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1-15-14 Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary



# Closure Report

PJXK 1535150488

HOBBS OCD

MAY 21 2014

## Site Description

Site Name:	MLMU #246	RECEIVED
Company:	Oxy Permian Ltd.	
Legal Description:	U/L O, Section 7, T24S, R37E	
County:	Lea County, NM	
GPS Coordinates:	N 32.23373° W 103.19889°	

## Release Data

Date of Release:	01/08/2014
Type of Release:	Produced water
Source of Release:	Leak in 1" steel injection line at the injection header
Volume of Release:	20 bbls
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the entire leak site to a depth of 1 foot. Obtain confirmation sidewall samples. Then, backfill the site with clean soil.
Remediation Activities:	5/9/14 to 5/15/14

Plan Sent to OCD:	04/05/2014	Email from Cliff Brunson to Geoffrey Leking
OCD Approval of Plan:	04/07/2014	Email from Geoffrey Leking to Cliff Brunson
Plan Sent to BLM:	04/21/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	04/22/2014	Email from J. Van Curen to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 01/15/2014
Final C-141	Signed 05/19/2014
Site Diagram	January 2014
Groundwater Plot	>100'
TOPO Maps	January 2014
Lab Summary	02/20/2014 and 05/09/2014
Lab Analysis	02/20/2014 and 05/09/2014
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.

05/19/2014

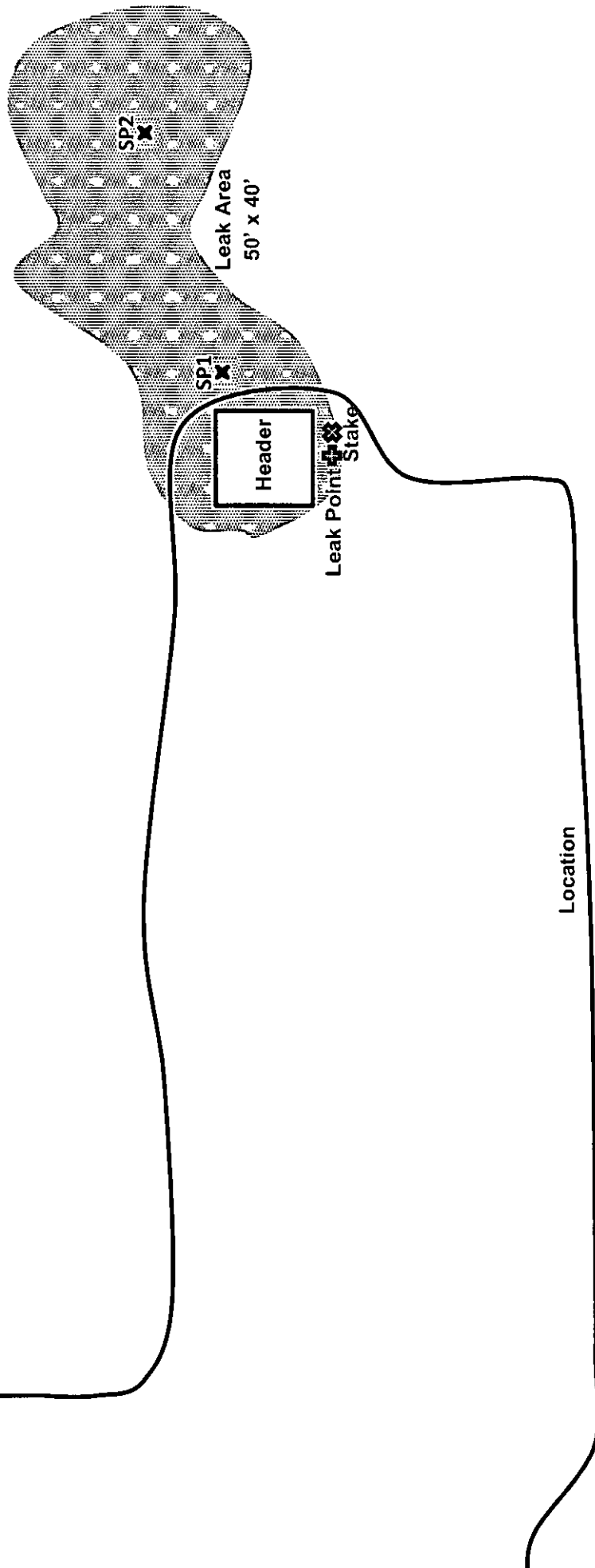
DEC 22 2015



N

Road

Oxy  
MLMU #246

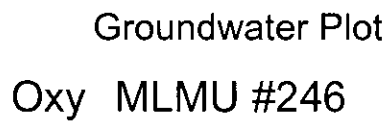


U/L O, Section 7, T24S, R37E  
660' FSL, 1980' FEL  
Lea County, NM  
GPS at stake: N 32.23373° W 103.19889°  
API# 30-025-11049

BBC International, Inc.		
Oxy		
MLMU #246		
Date: 01/14/14	DRWG by: K. Purvis	
NOT TO SCALE	File: Oxy 2014	

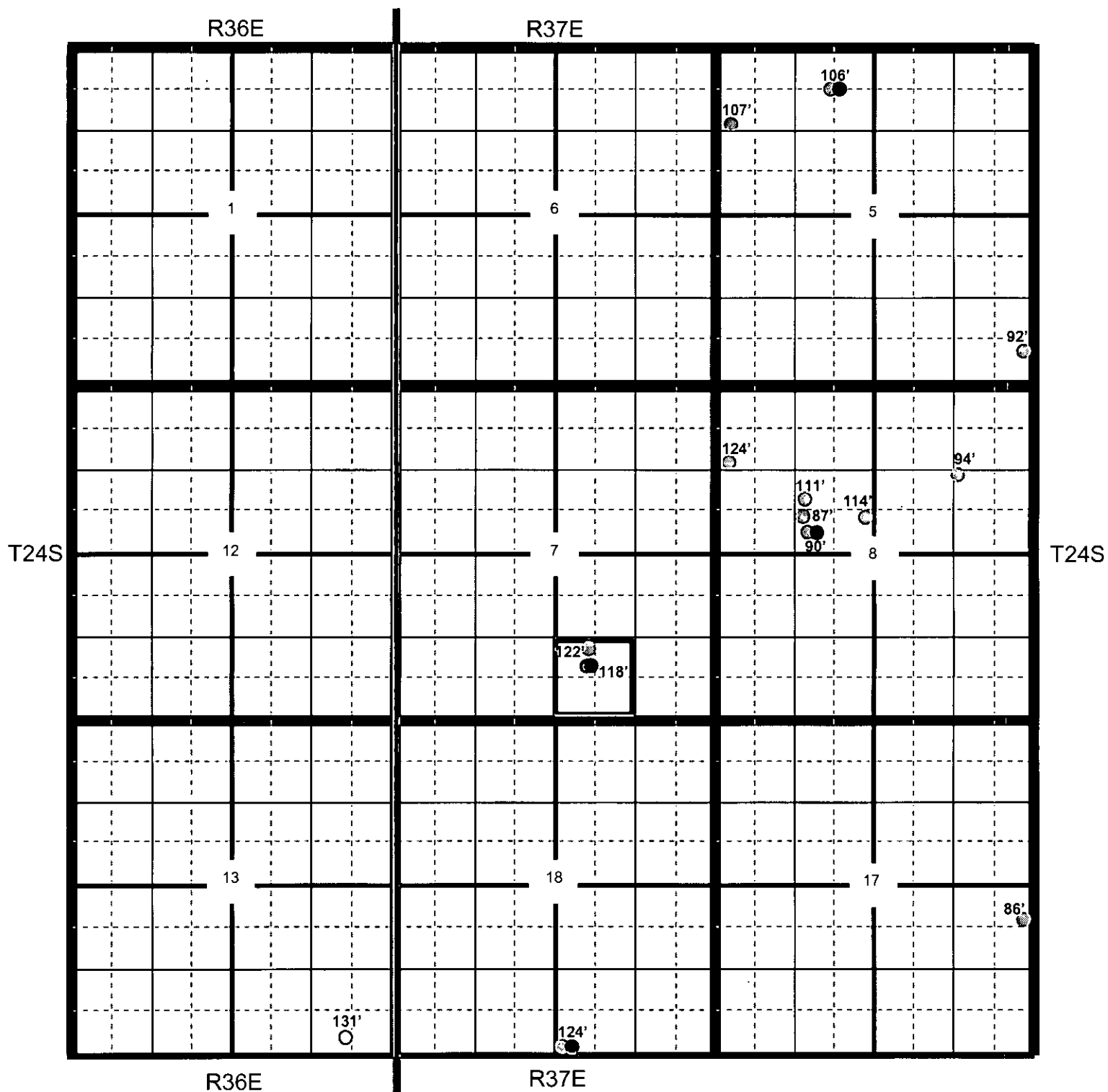






**Range**  
**37E**

Trend Map >100'



- All Databases



# Section Quarters

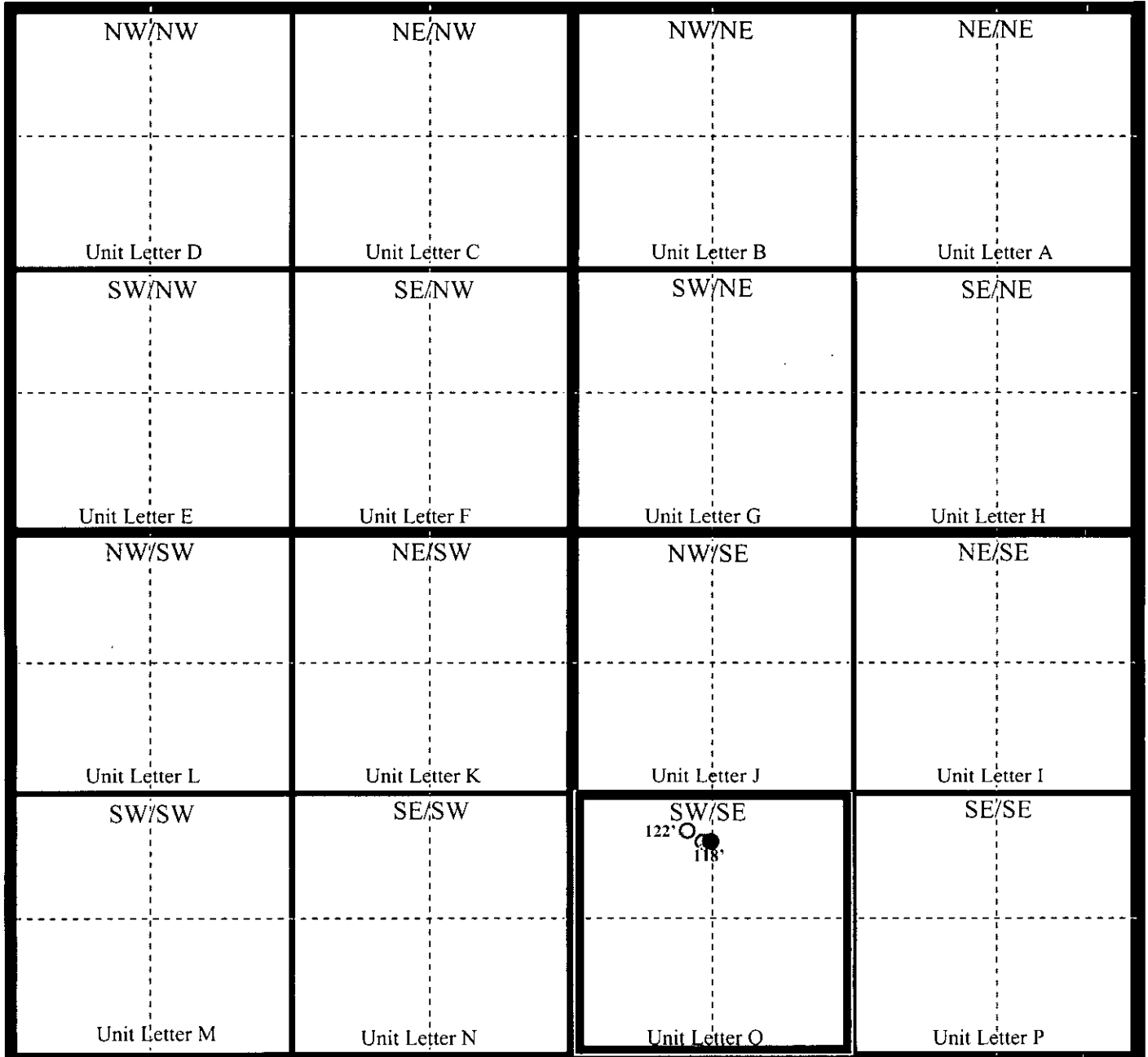
## Oxy MLMU #246

**County** Lea      **Unit Letter** O      **Section** 7      **Township** 24S      **Range** 37E

Trend Map >100'

1

2



3

4

⊙ Location

○ OCD

● USGS

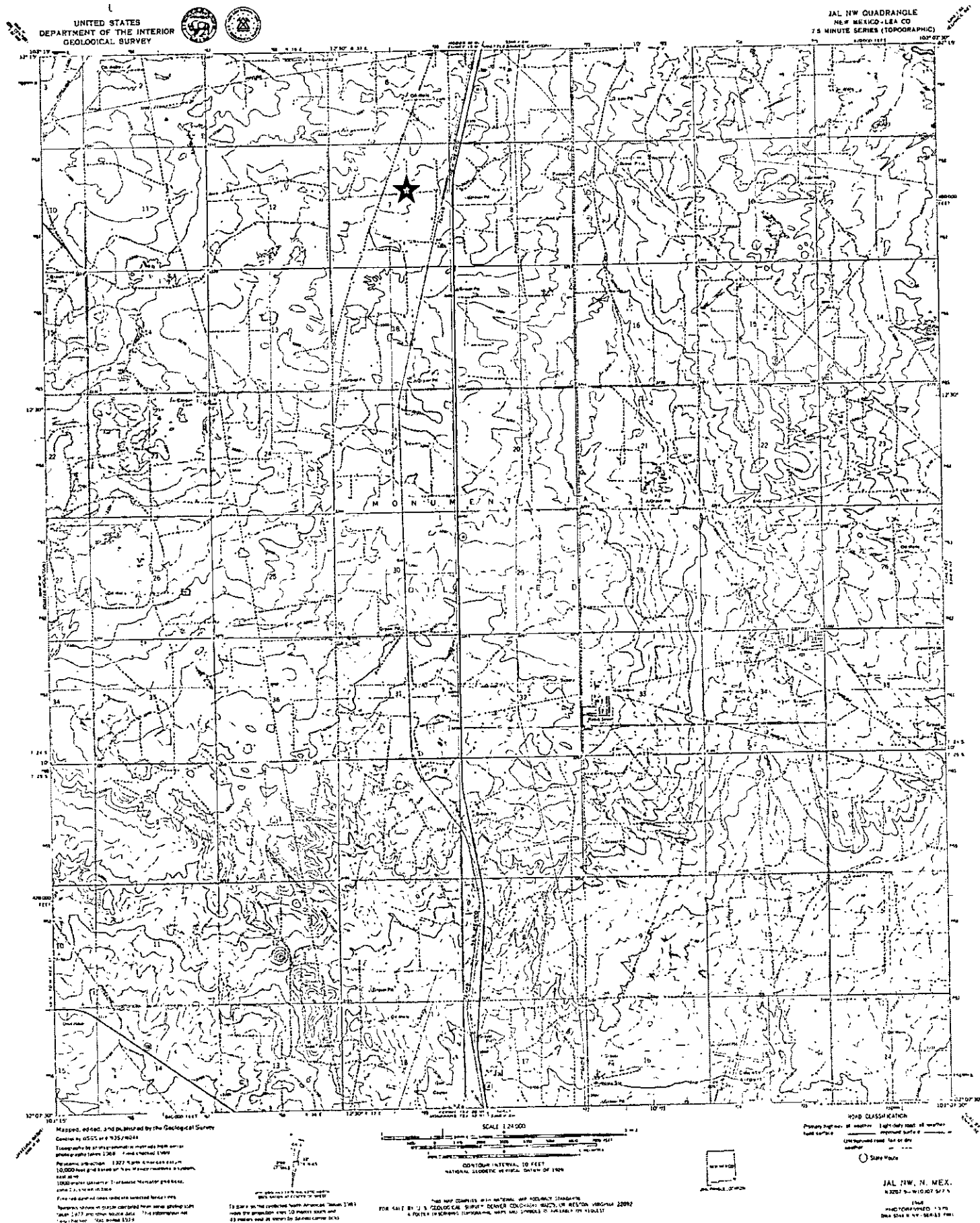
● SEO

● All Databases



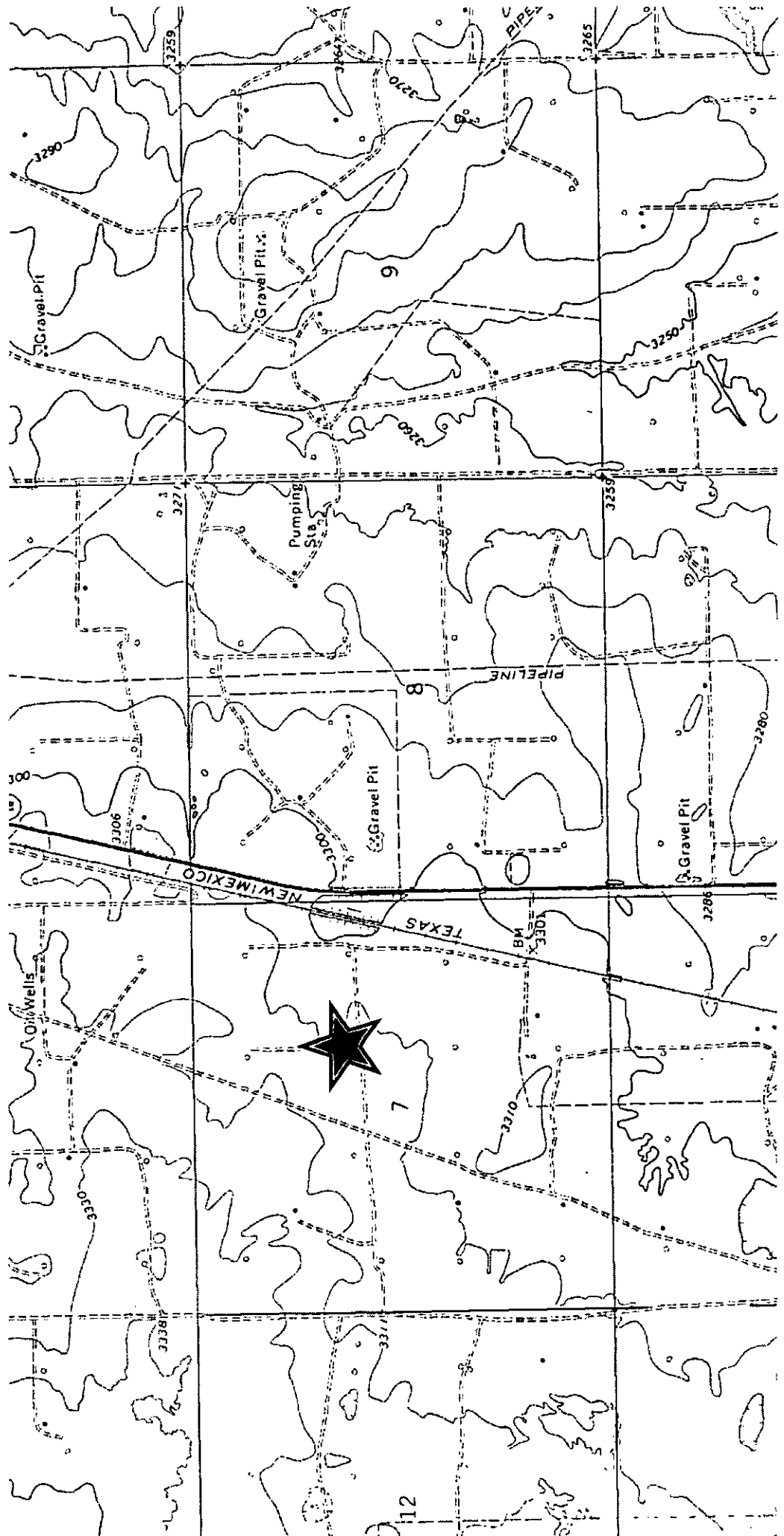
# Oxy

## MLMU #246





**Oxy**  
**MLMU #246**







Laboratory Analytical Results Summary  
MLMU 246

Analyte	Method	Sample Date	SP1 @ Surface 2/20/14 mg/Kg	SP1 @ 1' 2/20/14 mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		4280	16
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0

Analyte	Method	Sample Date	SP2 @ Surface 2/20/14 mg/Kg	SP2 @ 1' 2/20/14 mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		6240	<16.0
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0



Laboratory Analytical Results Summary  
MLMU #246

		Sample	Sidewall 1	Sidewall 2	Sidewall 3	Sidewall 4
Analyte	Method	Date	5/8/14	5/8/14	5/8/14	5/8/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		96.0	96.0	96.0	64.0



February 28, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #246

Enclosed are the results of analyses for samples received by the laboratory on 02/20/14 16:45.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

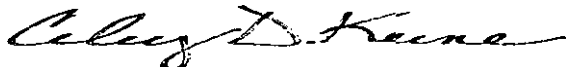
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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



**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

 Received: 02/20/2014  
 Reported: 02/28/2014  
 Project Name: MLMU #246  
 Project Number: NONE GIVEN  
 Project Location: JAL, NM

 Sampling Date: 02/20/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H400525-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	02/27/2014	ND	416	104	400	0.00	

**Sample ID: SP 1 @ 1' (H400525-02)**

BTEX 8260B			mg/kg								Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	02/28/2014	ND	1.95	97.7	2.00	2.03				
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42				
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29				
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69				
Total BTEX	<0.300	0.300	02/28/2014	ND								

Surrogate: Dibromofluoromethane 97.1 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

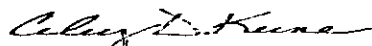
Chloride, SM4500Cl-B			mg/kg Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/27/2014	ND	416	104	400	0.00		

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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 02/20/2014  
Reported: 02/28/2014  
Project Name: MLMU #246  
Project Number: NONE GIVEN  
Project Location: JAL, NM

Sampling Date: 02/20/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H400525-02)**

TPH 8015M			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: 1-Chlorooctane	98.4 %	65.2-140								
Surrogate: 1-Chlorooctadecane	96.3 %	63.6-154								

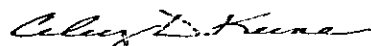
**Sample ID: SP 2 @ SURFACE (H400525-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	02/27/2014	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

 Received: 02/20/2014  
 Reported: 02/28/2014  
 Project Name: MLMU #246  
 Project Number: NONE GIVEN  
 Project Location: JAL, NM

 Sampling Date: 02/20/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H400525-04)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/28/2014	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/27/2014	ND	416	104	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	

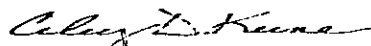
Surrogate: 1-Chlorooctane 94.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

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\*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

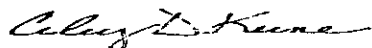
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## ORDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> BBC International, Inc. <b>Project Manager:</b> Cliff Brunson				<b>P.O. #:</b>			
<b>Address:</b> P.O. Box 805 <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88241				<b>Company:</b>			
<b>Phone #:</b> 575-397-6388 <b>Fax #:</b> 575-397-0397				<b>Attn:</b>			
<b>Project #:</b>				<b>Address:</b>			
<b>Project Name:</b>				<b>City:</b>			
<b>Project Location:</b>				<b>State:</b> <b>Zip:</b>			
<b>Sample Name:</b>				<b>Phone #:</b>			
<b>FOR LAB USE ONLY</b>				<b>Fax #:</b>			
<b>Lab I.D.</b>  <b>Sample I.D.</b>	<b>Sample I.D.</b>	(G)RAB OR (C)OMP. # CONTAINERS	<b>MATRIX</b>			<b>PRESERV</b>	<b>SAMPLING</b>
			GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE TIME	CL - TPH BTEX	
HU00525	SP10 f.c.f.c	1					
2	SP20 f.c.f.c	1	X			2-20 8:40	X
3		1	X			2-20 9:09	X
4		1	X			2-20 10:30	X
		1	X			2-20 11:08	X







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

---

May 13, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #246

Enclosed are the results of analyses for samples received by the laboratory on 05/12/14 8:30.

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](http://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



**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 05/12/2014  
Reported: 05/13/2014  
Project Name: MLMU #246  
Project Number: NONE GIVEN  
Project Location: JAL, NM

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SIDEWALL 1 (H401431-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/13/2014	ND	400	100	400	0.00	

**Sample ID: SIDEWALL 2 (H401431-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/13/2014	ND	400	100	400	0.00	

**Sample ID: SIDEWALL 3 (H401431-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/13/2014	ND	400	100	400	0.00	

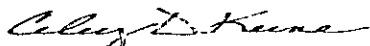
**Sample ID: SIDEWALL 4 (H401431-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/13/2014	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

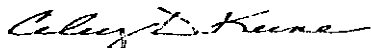
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received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

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Cardinal Laboratories

\* = Accredited Analyte

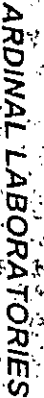
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---

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





## Jennifer Gilkey

---

**From:** Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>  
**Sent:** Monday, April 07, 2014 1:09 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-MLMU #246

Cliff

Per our conversation of April 2, 2014 and review of the below email and attachment, the remediation plan is approved for the OXY MLMU #246. Thank you.

Geoffrey Leking  
Environmental Specialist  
NMOCD-Hobbs  
1625 N. French Drive  
Hobbs, NM 88240  
Office: (575) 393-6161 Ext. 113  
Cell: (575) 399-2990  
email: [geoffreyr.leting@state.nm.us](mailto:geoffreyr.leting@state.nm.us)

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Saturday, April 05, 2014 7:45 PM  
**To:** Leking, Geoffrey R, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-MLMU #246

Geoff,

This e-mail is to confirm our conversation on April 2, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 1 foot in the entire leak area that is depicted on the attached site diagram. The site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

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](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*



## Kathy Purvis

---

**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Tuesday, April 22, 2014 6:55 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: Oxy-Remediation Plans Approval Status

EC Hill B Fed #20 --Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: SP1 is 3' and SP2 & SP3 is 6" minimal removal. Berm well pad to prevent fluids from leaving the well pad. Pay close attention to not disturb old drilling pit.

Cypress 34 Fed #1 -- Received plan in on 4-6-14 and approved on 4-16-14 after visiting with CJ. Stips are to repair cattle guard and fence along lease road, correct erosion issue in the NW, need sidewall samples from area to lined to unlined behind two tanks, Lease number missing on well sign, SP1 min is 3', SP2 is 1' minimal --sample to be sure TPH is less than 1000. SP3 & SP6 is 1' removal and SP5 is 2' removal. SP6 should be lined with a small berm to catch load line spillage from trucks. **Samples from confirmations must be sent in.**

Cedar Canyon 28 Fed #4 -- Received plan on 4-6-14 and approved plan on 4-16-14 after reviewing with CJ. Excavating 2' in areas of SP1 & SP2, and 1' removal from SP3. The area at SP1 & SP2 will have a clay liner used. Discussed plan with CJ and let him know that since there are hydrocarbons around the heater treater and separator that the clay will not be effective due to the hydrocarbons breaking down the clay rather quickly. If spill occurs in that area, it will still need to be delineated.

Patton 17 Fed #6 -- Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: Would allow surface scrape on well pad. There is no need to dig into pit with low levels of chlorides. Pit needs to be capped anyway. Recommend no or little digging, capping and topsoil.

MLMU #246 -- Plan received for remediation on 4-5-14 and approved after reviewing with CJ on 4-16-14. Sidewalls need to be taken for horizontal cleanup. **Confirmation samples need to be sent in.**

Bradley 13 Fed Battery -- Received plan in for remediation of spill on 4-6-14 and approved on 4-16-14 after visiting with CJ. Need to delineate north of tank. Tank needs to have integrity test completed and repairs made or replacement, remediate the release around the pumpjack and north to the pit area. No plan necessary, just complete the work for this area and test to be sure that contaminants have been removed. Be careful to not dig into pit contents. Remove hot material and cap if necessary. Deep bury or haul off the cement slab. **Confirmation samples from wellhead and pit area will need to be sent in.**

Confirmation samples or delineation samples are very important not only to the BLM but also the operator. This is what will determine the plan of action in reclamation of the plugged well. Without that information, massive mistakes will be (have been) made, costing hundreds of thousands in remediation of plugged wells. Strategic thinking is priceless.

Jennifer

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220



OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, Apr 21, 2014 at 4:02 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

I am following up on several remediation plans that I sent to you for approval a couple of weeks ago. Could you give me an update status on the following Oxy sites:

EC Hill B Fed #20  
Cypress 34 Fed #1  
Cedar Canyon 28 Fed #4  
Patton 17 Fed #6  
MLM #246  
Bradley 13 Fed Battery

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](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

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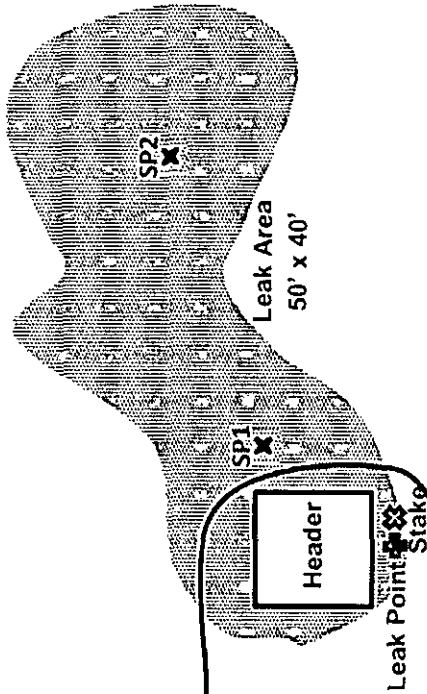
Road

Oxy

MLMU #246

Remediation  
Plan  
Attachment

Location



U/L O, Section 7, T24S, R37E  
660' FSL, 1980' FEL  
Lea County, NM  
GPS at stake: N 32.23373° W 103.19889°  
API# 30-025-11049

BBC International, Inc.

Oxy

MLMU #246

Date: 01/14/14 DRWG by: K. Purvis

NOT TO SCALE File: Oxy 2014







# Groundwater Plot

## Oxy MLMU #246

County  
Lea

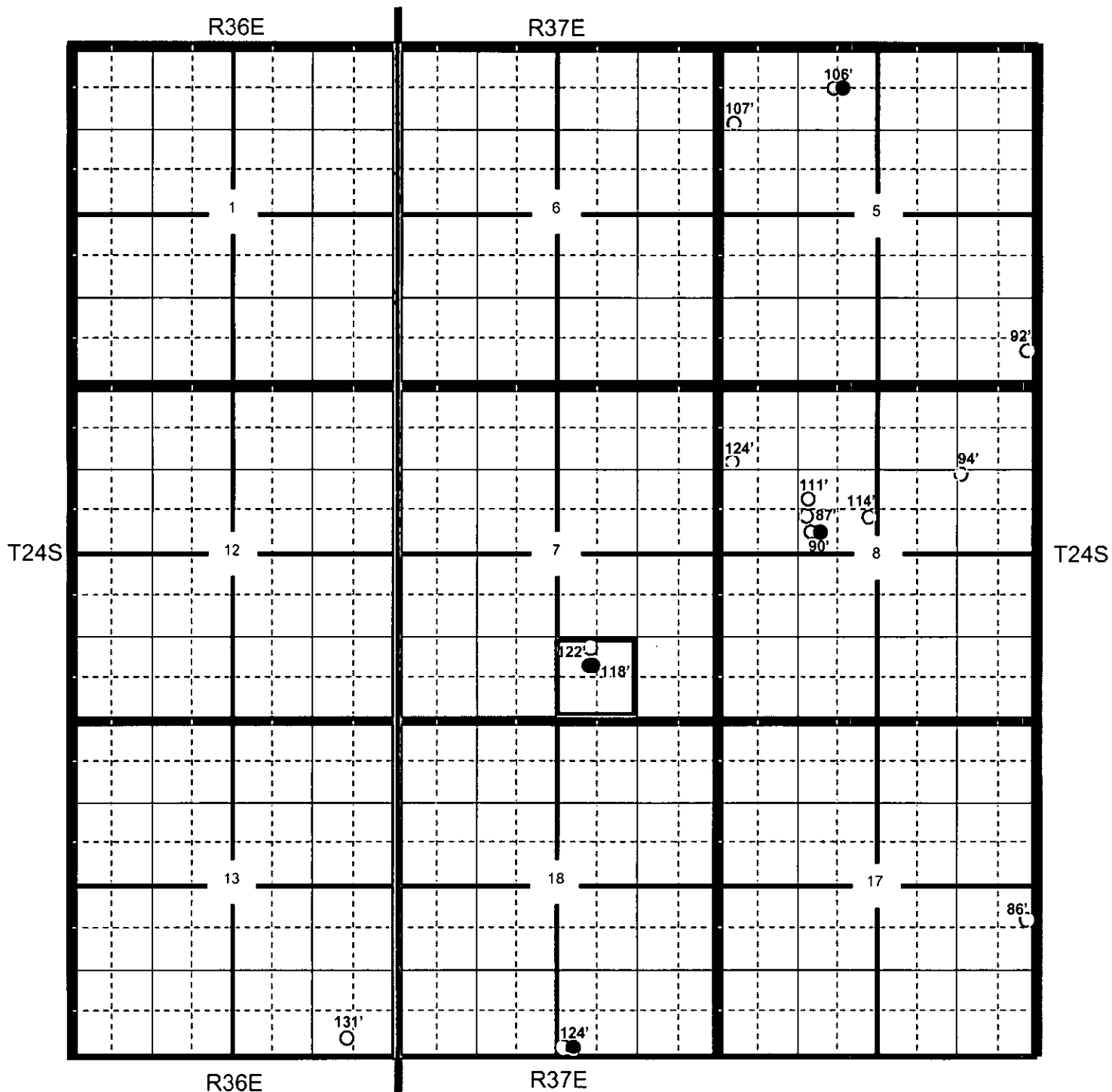
Unit Letter  
O

Section  
7

Township  
24S

Range  
37E

Trend Map >100'







Section Quarters

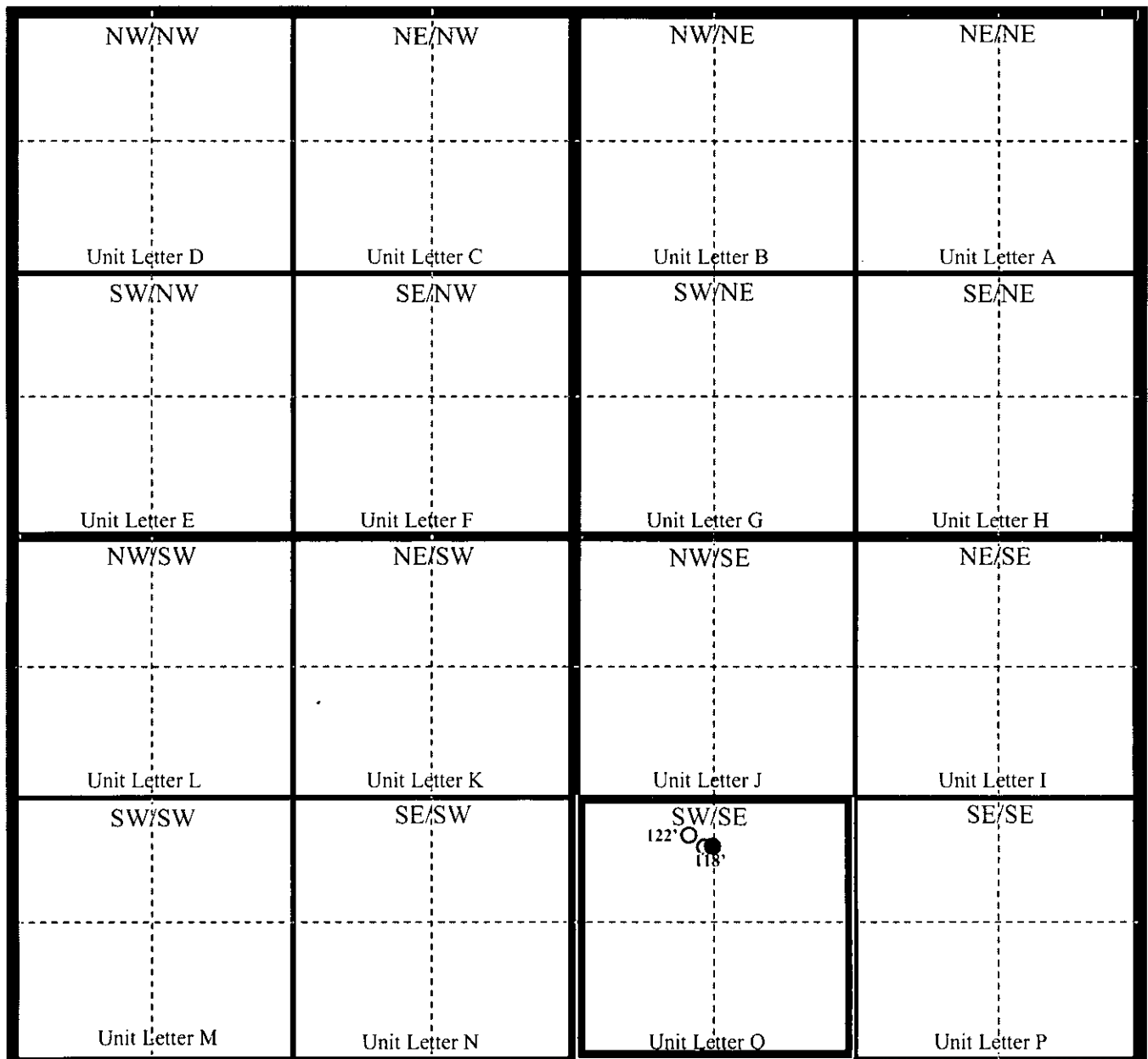
Oxy MLMU #246

County      Unit Letter      Section      Township      Range  
Lea      O      7      24S      37E

Trend Map >100'

1

2



3

4

⊛ Location      ⊙ OCD      ● USGS      ● SEO      ● All Databases



Laboratory Analytical Results Summary  
MLMU 246

Analyte	Method	Sample Date	SP1 @ Surface 2/20/14 mg/Kg	SP1 @ 1' 2/20/14 mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		4280	16
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0

Analyte	Method	Sample Date	SP2 @ Surface 2/20/14 mg/Kg	SP2 @ 1' 2/20/14 mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		6240	<16.0
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0





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

---

February 28, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #246

Enclosed are the results of analyses for samples received by the laboratory on 02/20/14 16:45.

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](http://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





**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 02/20/2014  
Reported: 02/28/2014  
Project Name: MLMU #246  
Project Number: NONE GIVEN  
Project Location: JAL, NM

Sampling Date: 02/20/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H400525-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	02/27/2014	ND	416	104	400	0.00	

**Sample ID: SP 1 @ 1' (H400525-02)**

BTEX 8260B			mg/kg Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/28/2014	ND						

Surrogate: Dibromofluoromethane 97.1 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

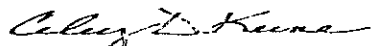
Chloride, SM4500Cl-B			mg/kg Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/27/2014	ND	416	104	400	0.00		

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	02/26/2014	ND	204	102	200	5.45				
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11				

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/20/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	MLMU #246	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

**Sample ID: SP 1 @ 1' (H400525-02)**

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane	98.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	96.3 %	63.6-154							

**Sample ID: SP 2 @ SURFACE (H400525-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	02/27/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

 Received: 02/20/2014  
 Reported: 02/28/2014  
 Project Name: MLMU #246  
 Project Number: NONE GIVEN  
 Project Location: JAL, NM

 Sampling Date: 02/20/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H400525-04)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/28/2014	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/27/2014	ND	416	104	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	

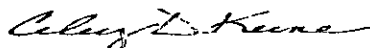
Surrogate: 1-Chlorooctane 94.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

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\*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



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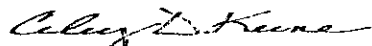
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

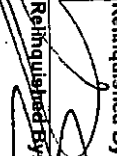
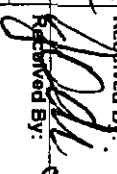
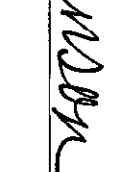
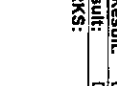






**101 East Marland, Hobbs, NM 88240**  
**(505) 393-2326 FAX (505) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> BBC International, Inc. <b>Project Manager:</b> Cliff Brunson <b>Address:</b> P.O. Box 805 <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88241 <b>Phone #:</b> 575-397-6388 <b>Fax #:</b> 575-397-0397 <b>Project #:</b> <b>Project Name:</b> MYMU-246 <b>Project Location:</b> 1st <b>Project Owner:</b> Oxy <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>									
<b>Sample Name:</b> 1st Driveway <b>FOR LAB USE ONLY:</b>									
<b>Lab I.D.</b> H400525		<b>Sample I.D.</b>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		MATRIX PRESERV SAMPLING		DATE TIME	
1		SP10 f.c.		G-1		X		2-20 8:40	
2		SP10 f.c.		G-1		X		2-20 9:09	
3		SP20 f.c.		G-1		X		2-20 10:30	
4		SP20 f.c.		G-1		X		2-20 11:08	
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<b>Relinquished By:</b> 		<b>Date:</b> 2-20-14 <b>Time:</b> 4:45 <b>Received By:</b> Cliff Brunson <b>Signature:</b> 		<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b>		<b>REMARKS:</b>			
<b>Reinquinshed By:</b> 		<b>Date:</b> <b>Time:</b>		<b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>CHECKER BY:</b> 		<b>Delivered By: (Circle One)</b> Sampler - UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other: <input checked="" type="checkbox"/>	

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

54 #



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	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	MLMU #246	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	API No. 30-025-11049

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	7	24S	37E	660	South	1980	East	Lea County, NM

Latitude N 32.23373° Longitude W 103.19889°

**NATURE OF RELEASE**

Type of Release	Produced water	Volume of Release	20 bbls	Volume Recovered	0 bbls
Source of Release	Leak in a 1" stainless steel injection line at the injection header	Date and Hour of Occurrence	01/08/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-NMOCD, Jennifer Van Curen-BLM		
By Whom?	Kathy Purvis	Date and Hour	01/09/2014 @ 3:42 pm		
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.\*

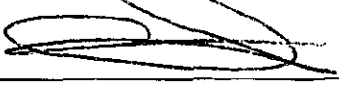
A leak in the 1 inch stainless steel injection line at the injection header caused 20 bbls of produced water to spill onto the ground. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 50' x 40' and included the area immediately surrounding the header and flowed East into the pasture and/or red clay sand. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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: 

Printed Name: Chancey Summers

Title: HES Specialist

E-mail Address: Chancey.Summers@oxy.com

Date: 1-15-14 Phone: (575) 397-8216

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

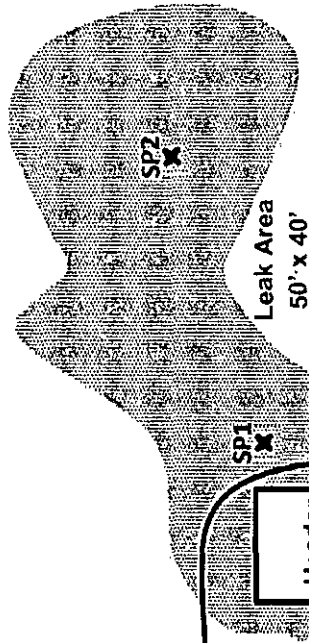
\* Attach Additional Sheets If Necessary



Oxy  
MLMU #246



Road



HOBBS OCD

APR 05 2014

RECEIVED

U/L O, Section 7, T24S, R37E  
660' FSL, 1980' FEL  
Lea County, NM  
GPS at stake: N 32.23373° W 103.19889°  
API# 30-025-11049

approved  
*Jeffrey Sekim*  
Environmental Specialist  
NMOCB-DIST  
4/7/14

BBC International, Inc.	
Oxy	
MLMU #246	
Date: 01/14/14	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

1940



# Groundwater Plot

## Oxy MLMU #246

County  
Lea

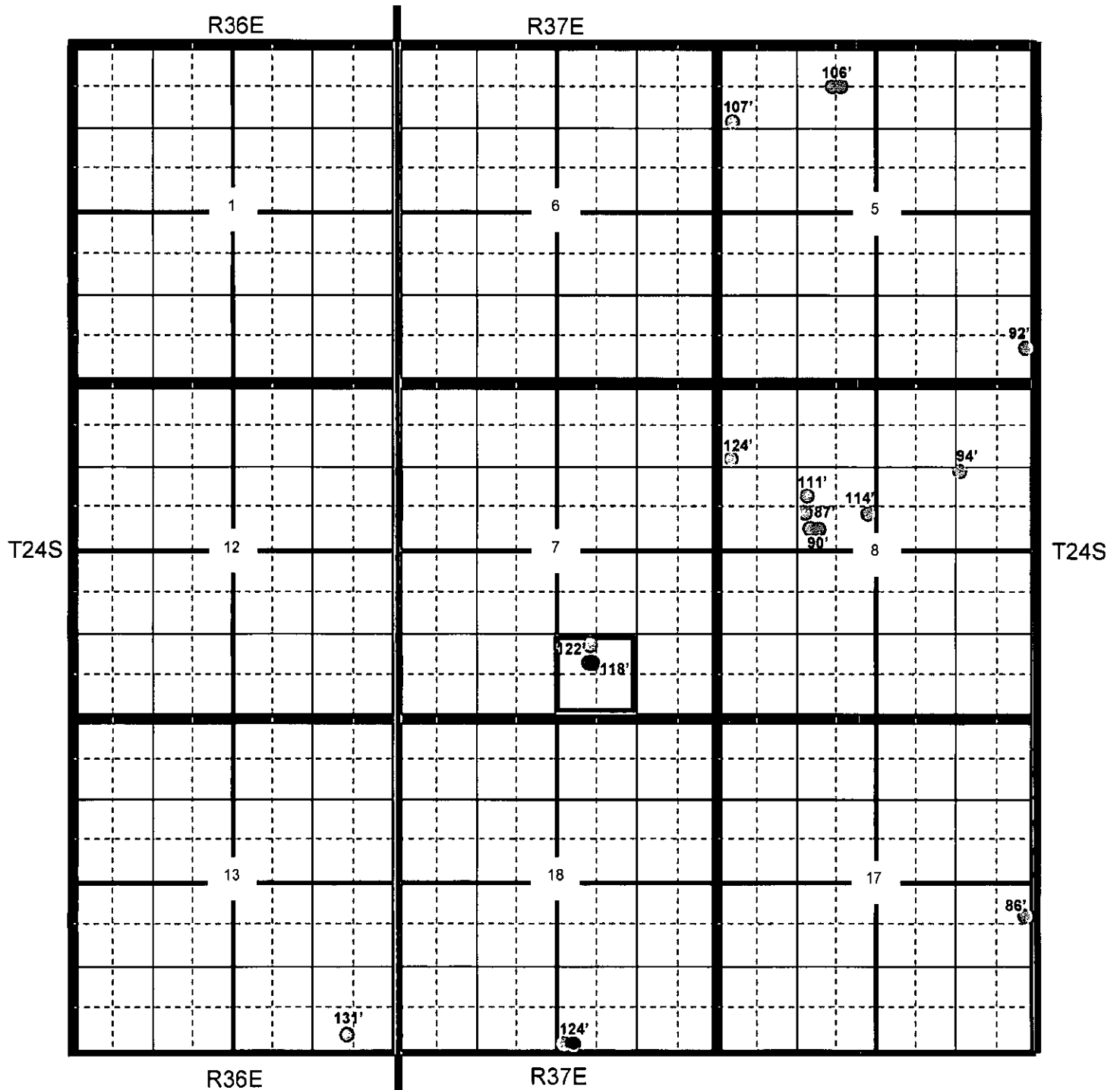
Unit Letter  
O

Section  
7

Township  
24S

Range  
37E

Trend Map >100'



⊙ Location

● OCD

● USGS

● SEO

● All Databases







Section Quarters

Oxy MLMU #246

County  
Lea

Unit Letter  
O

Section  
7

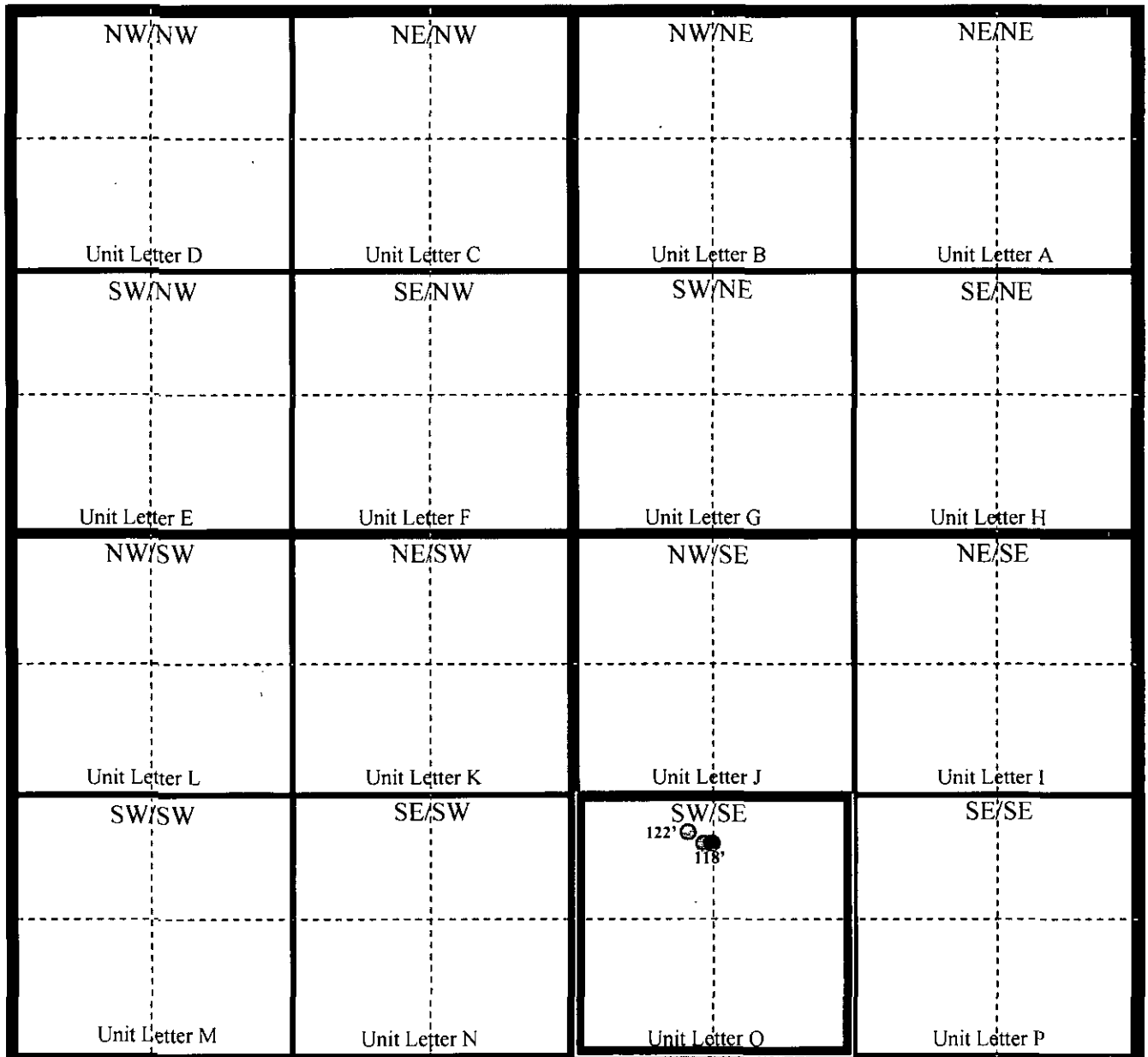
Township  
24S

Range  
37E

Trend Map >100'

1

2



3

4

★ Location

● OCD

● USGS

⊙ SEO

● All Databases



Laboratory Analytical Results Summary  
MLMU 246

Analyte	Method	Sample	SP1 @ Surface 2/20/14 mg/Kg	SP1 @ 1' 2/20/14 mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		4280	16
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0

Analyte	Method	Sample	SP2 @ Surface 2/20/14 mg/Kg	SP2 @ 1' 2/20/14 mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		6240	<16.0
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0



February 28, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #246

Enclosed are the results of analyses for samples received by the laboratory on 02/20/14 16:45.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

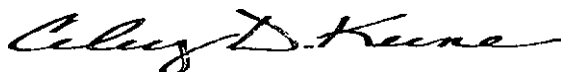
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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



**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 02/20/2014  
Reported: 02/28/2014  
Project Name: MLMU #246  
Project Number: NONE GIVEN  
Project Location: JAL, NM

Sampling Date: 02/20/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H400525-01)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	02/27/2014	ND	416	104	400	0.00	

**Sample ID: SP 1 @ 1' (H400525-02)**

BTX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69	
Total BTX	<0.300	0.300	02/28/2014	ND					

Surrogate: Dibromofluoromethane 97.1 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/27/2014	ND	416	104	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager





**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/20/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	MLMU #246	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

**Sample ID: SP 1 @ 1' (H400525-02)**

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane	98.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	96.3 %	63.6-154							

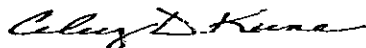
**Sample ID: SP 2 @ SURFACE (H400525-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	02/27/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 02/20/2014  
Reported: 02/28/2014  
Project Name: MLMU #246  
Project Number: NONE GIVEN  
Project Location: JAL, NM

Sampling Date: 02/20/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H400525-04)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/28/2014	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/27/2014	ND	416	104	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	

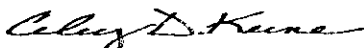
Surrogate: 1-Chlorooctane 94.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

#54

