



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805  
E-MAIL: cbrunson@bbcinternational.com

---

## OXY – MLMU #141

### REMEDIATION PLAN

---

OXY will excavate the spill area as depicted on the following site diagram. The spill area outlined in red near sample points SP1 and SP2 will be excavated to a depth of 3 feet then a clay liner will be installed. In the area near SP3, the area outlined in red will be excavated to a depth of 3 feet. The rest of the spill area will be surfaced scraped.

The site will then be backfilled with clean soil. All excavated materials will be disposed of at an NMOCD-approved disposal facility.

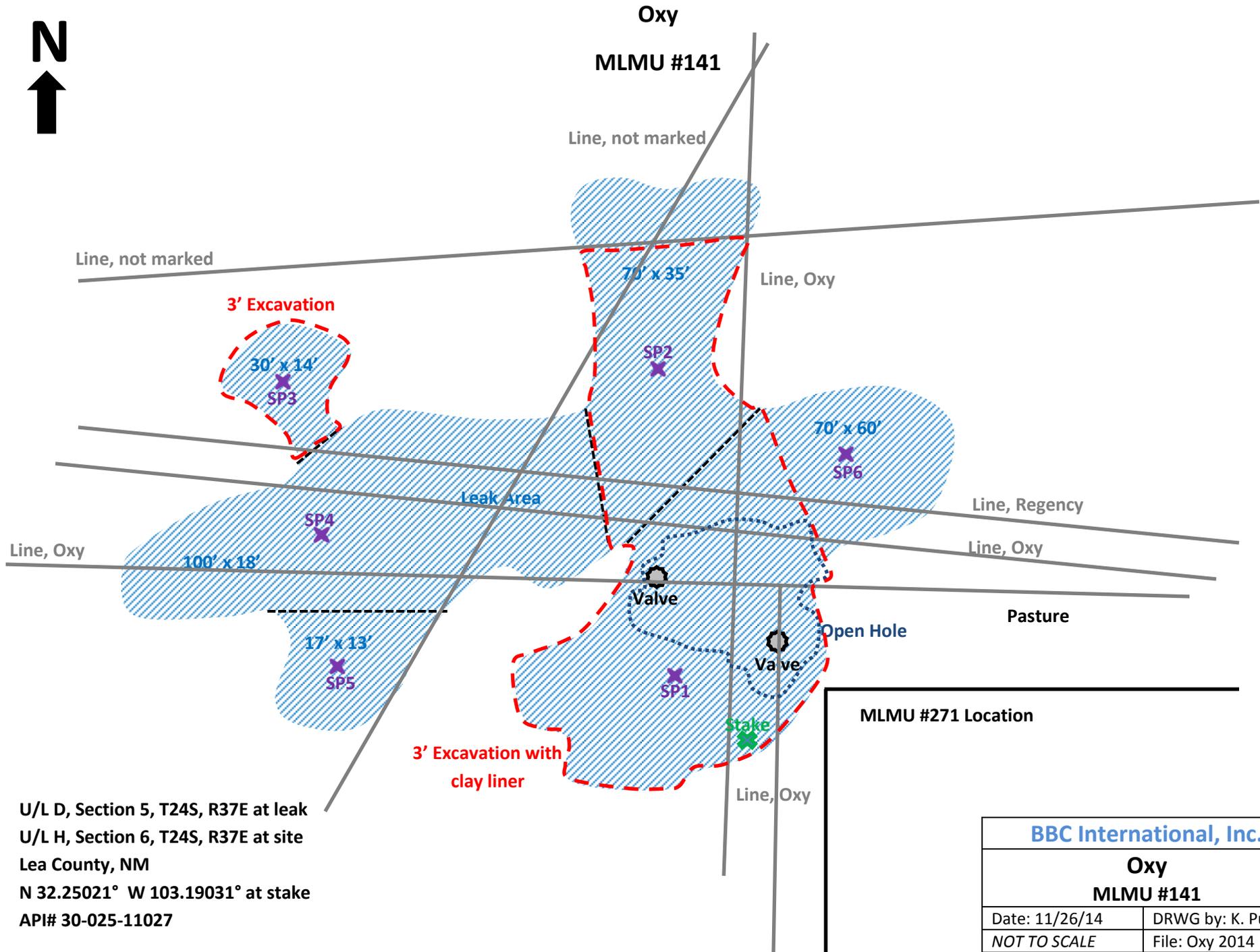
**RECEIVED**

*By JKeyes at 2:52 pm, Sep 30, 2015*

**APPROVED**

*By JKeyes at 2:52 pm, Sep 30, 2015*

Ensure BLM concurrence/approval



U/L D, Section 5, T24S, R37E at leak  
U/L H, Section 6, T24S, R37E at site  
Lea County, NM  
N 32.25021° W 103.19031° at stake  
API# 30-025-11027

MLMU #271 Location

BBC International, Inc.

Oxy  
MLMU #141

Date: 11/26/14

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2014

# Groundwater Plot

## Oxy MLMU #141

County  
Lea

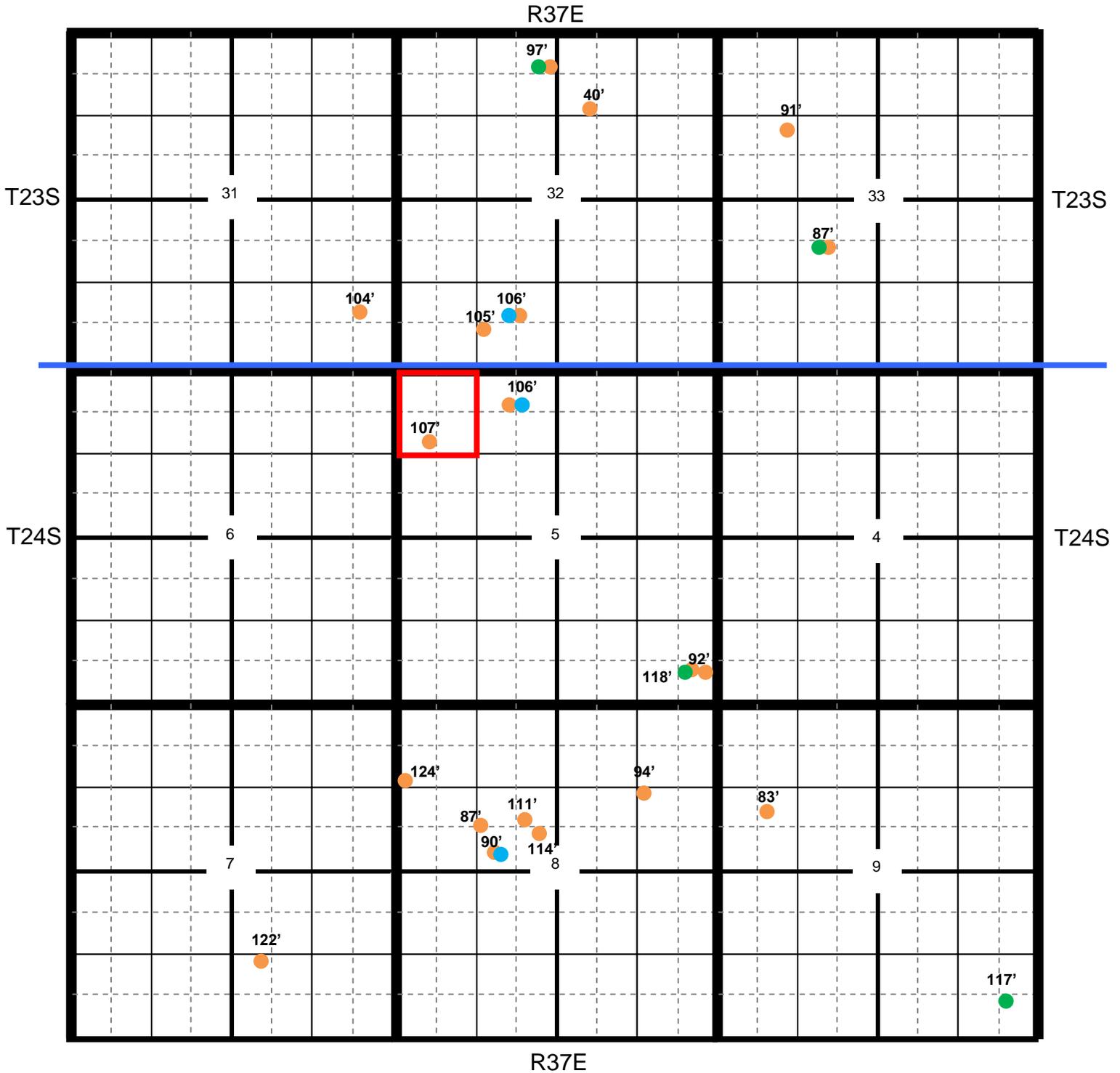
Unit Letter  
D

Section  
5

Township  
24S

Range  
37E

Trend Map 100'



⚙ Location

● OCD

● USGS

● SEO

● All Databases

Section Quarters

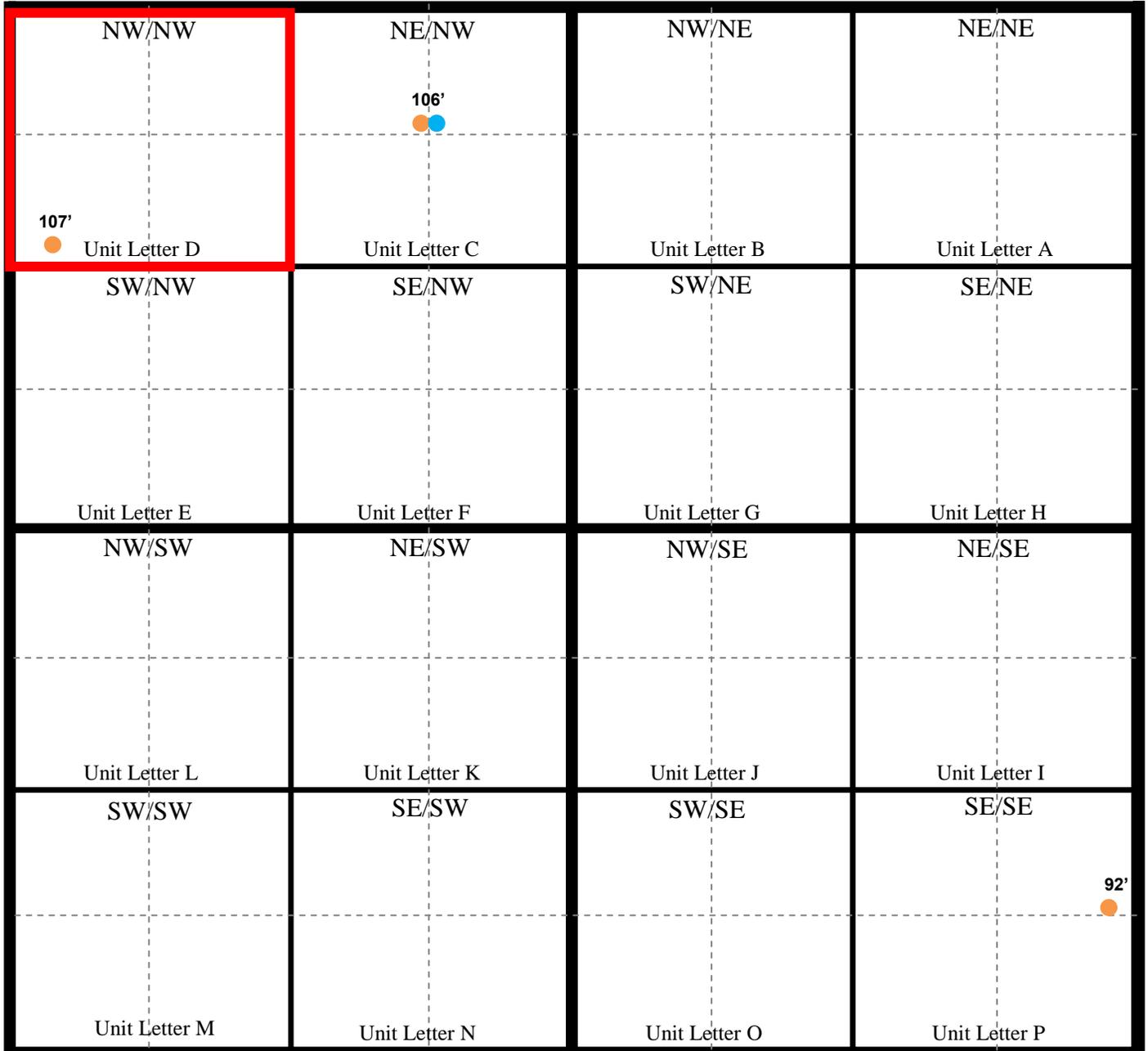
Oxy MLMU #141

County: Lea      Unit Letter: D      Section: 5      Township: 24S      Range: 37E

Trend Map 100'

1

2



3

4

**Laboratory Analytical Results Summary  
MLMU #141**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 6'	SP1 @ 8'	SP1 @ 11'	SP1 @ 13'	SP1 @ 15'
Analyte	Method	Date	2/11/15	2/11/15	2/12/15	2/12/15	2/12/15	2/12/15	2/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>368</b>	<b>1020</b>	<b>784</b>	<b>1800</b>	<b>1250</b>	<b>656</b>	<b>48</b>

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'	SP2 @ 9'	SP2 @ 13'
Analyte	Method	Date	2/12/15	2/12/15	2/13/15	2/13/15	2/13/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>800</b>	<b>992</b>	<b>752</b>	<b>1710</b>	<b>1220</b>

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	2/16/15	2/16/15	2/16/15	2/16/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>944</b>	<b>1070</b>	<b>240</b>	<16.0

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	8/11/15	8/11/15	8/11/15
			mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>592</b>	<16.0	<16.0

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	8/11/15	8/11/15	8/11/15	8/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>1090</b>	<16.0	<16.0	<16.0

		Sample	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	8/12/15	8/12/15
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<16.0	<16.0



February 23, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #141

Enclosed are the results of analyses for samples received by the laboratory on 02/18/15 8:45.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	02/18/2015	Sampling Date:	02/11/2015
Reported:	02/23/2015	Sampling Type:	Soil
Project Name:	MLMU #141	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

**Sample ID: SP 1 @ 1' (H500470-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>368</b>	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 3' (H500470-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1020</b>	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 6' (H500470-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>784</b>	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 8' (H500470-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1800</b>	16.0	02/18/2015	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	02/18/2015	Sampling Date:	02/12/2015
Reported:	02/23/2015	Sampling Type:	Soil
Project Name:	MLMU #141	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

**Sample ID: SP 1 @ 11' (H500470-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1250</b>	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 13' (H500470-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>656</b>	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 15' (H500470-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 1' (H500470-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>800</b>	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 3' (H500470-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>992</b>	16.0	02/18/2015	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	02/18/2015	Sampling Date:	02/13/2015
Reported:	02/23/2015	Sampling Type:	Soil
Project Name:	MLMU #141	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

**Sample ID: SP 2 @ 6' (H500470-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 9' (H500470-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 13' (H500470-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 1' (H500470-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 3' (H500470-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	02/18/2015	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	02/18/2015	Sampling Date:	02/16/2015
Reported:	02/23/2015	Sampling Type:	Soil
Project Name:	MLMU #141	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

**Sample ID: SP 3 @ 5' (H500470-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 6' (H500470-16)**

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	02/18/2015	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**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



---

Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**

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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
Project Manager: Cliff Brunson  
Address: P.O. Box 805  
City: Hobbs  
Phone #: 575-397-6388  
Project #:

State: NM Zip: 88241  
Fax #: 575-397-0397  
Project Owner: OXY

Project Name: MIMV #191  
Project Location: 121  
Sampler Name: West One/25

FOR LAB USE ONLY  
P.O. #: \_\_\_\_\_  
Company: \_\_\_\_\_  
Attn: \_\_\_\_\_  
Address: 592  
City: \_\_\_\_\_  
State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone #: \_\_\_\_\_  
Fax #: \_\_\_\_\_

Lab I.D. H500710  
Sample I.D. SP101

ID	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV		DATE	TIME	X
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
1	G	1	X	X	X	X	X	X	X	X	2-11	215	X	
2	G	1	X	X	X	X	X	X	X	X	2-11	300	X	
3	G	1	X	X	X	X	X	X	X	X	2-12	915	X	
4	G	1	X	X	X	X	X	X	X	X	2-12	1010	X	
5	G	1	X	X	X	X	X	X	X	X	2-12	1111	X	
6	G	1	X	X	X	X	X	X	X	X	2-12	1130	X	
7	G	1	X	X	X	X	X	X	X	X	2-12	1153	X	
8	G	1	X	X	X	X	X	X	X	X	2-12	1333	X	
9	G	1	X	X	X	X	X	X	X	X	2-12	1338	X	
10	G	1	X	X	X	X	X	X	X	X	2-13	1338	X	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]  
Date: 2-16-15  
Time: 8:00  
Received By: Ramon Montoya

Delivered By: (Circle One) Ramon Montoya  
Sampler - UPS - Bus - Other: 4.40  
Sample Condition: Cool Intact  
Checked By: [Signature]

REMARKS: #54



**CARDINAL LABORATORIES**

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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: *MLNY #1410XY*

Project Location: *12*

Sampler Name: *Jeff Ornelas*

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Lab I.D. *H50047D*

Sample I.D.

*11 SP209  
12 SP2013  
13 SP301  
14 SP303  
15 e5  
16 e6*

(G)RAB OR (C)OMP.  
# CONTAINERS

MATRIX  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER:

PRESERV  
ACID/BASE:  
ICE / COOL  
OTHER:

SAMPLING  
DATE  
TIME

*2-13 11  
2-13 3:00  
2-16 10/0  
11/2 100  
200*

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.

Relinquished By: *[Signature]*

Date: *2-18-15*  
Time: *8:00*

Received By: *Ramon Montoya*

Relinquished By: *Ramon Montoya*

Date: *2/18/15*  
Time: *8:45*

Received By: *Spacie Brunson*

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other: *4:42*

Sample Condition  
Cool  Intact   
Yes Yes  
No No

CHECKED BY: *[Signature]*

REMARKS:

*#54*

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



August 18, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #141

Enclosed are the results of analyses for samples received by the laboratory on 08/13/15 9:07.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

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: 08/13/2015  
 Reported: 08/18/2015  
 Project Name: MLMU #141  
 Project Number: NONE GIVEN  
 Project Location: DEEP WELLS ROAD

 Sampling Date: 08/11/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H502107-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	08/17/2015	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 1' (H502107-02)**

Chloride, SM4500CI-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	08/17/2015	ND	432	108	400	0.00	

**Sample ID: SP 4 @ 2' (H502107-03)**

Chloride, SM4500CI-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	08/17/2015	ND	432	108	400	0.00	

**Sample ID: SP 5 @ SURFACE (H502107-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/17/2015	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 08/13/2015  
 Reported: 08/18/2015  
 Project Name: MLMU #141  
 Project Number: NONE GIVEN  
 Project Location: DEEP WELLS ROAD

 Sampling Date: 08/11/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H502107-05)**

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	08/17/2015	ND	432	108	400	0.00	

**Sample ID: SP 5 @ 2' (H502107-06)**

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	08/17/2015	ND	432	108	400	0.00	

**Sample ID: SP 5 @ 3' (H502107-07)**

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	08/17/2015	ND	432	108	400	0.00	

**Sample ID: SP 6 @ SURFACE (H502107-08)**

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	08/17/2015	ND	432	108	400	0.00	

**Sample ID: SP 6 @ 1' (H502107-09)**

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	08/17/2015	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

### 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



---

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc. P.O. #: \_\_\_\_\_  
 Project Manager: Cliff Brunson Company: \_\_\_\_\_  
 Address: P.O. Box 805 Attn: \_\_\_\_\_  
 City: Hobbs State: NM Zip: 88241  
 Phone #: 575-397-6388 Fax #: 575-397-0397  
 Project #: \_\_\_\_\_ Project Owner: OXY  
 Project Name: MAMU-14  
 Project Location: Deep Wells Road  
 Sampler Name: Jeff Brunson  
 For Lab Use Only: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV		DATE	TIME						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL								
H502101	SP405PITFACE		1	X	X	X	X	X	X	X	8-11	111	X						
	SP2		1	X	X	X	X	X	X	X	8-11	152	X						
	SP505PITFACE		1	X	X	X	X	X	X	X	8-11	222	X						
	SP3		1	X	X	X	X	X	X	X	8-11	300	X						
	SP4		1	X	X	X	X	X	X	X	8-11	330	X						
	SP5		1	X	X	X	X	X	X	X	8-12	1000	X						
	SP6		1	X	X	X	X	X	X	X	8-12	1130	X						
	SP7		1	X	X	X	X	X	X	X	8-12	148	X						
	SP8		1	X	X	X	X	X	X	X	8-12	148	X						

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Jeff Brunson* Date: *8/13/15* Time: *9:07*  
 Received By: *Joel Jensen*  
 Delivered By: (Circle One)  UPS  Bus  Other: *-D.42*  
 Sample Condition:  Cool  Intact  
 Yes  No  
 CHECKED BY: *[Signature]*  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: *#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 #141	Facility Type	Well/Injection
Surface Owner	Federal	Mineral Owner	API No. 30-025-11027

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	6	24S	37E					Lea County, NM

Latitude N 32.24815° Longitude W 103.19522°

**NATURE OF RELEASE**

Type of Release	Produced water	Volume of Release	300 bbls	Volume Recovered	0 bbls
Source of Release	Leak in injection line	Date and Hour of Occurrence	11/13/2014	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?	Tomas Oberding- NMOCD, Sol Hughes- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	11/14/2014 @ 11:29 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

A leak in an injection line spilled 300 bbls of produced water 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 50' off location. 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:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Advisor	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>11-21-14</u> Phone: (575) 397-8216			

\* Attach Additional Sheets If Necessary