

# Closure Report

## Site Description

Site Name:	Midwest L Federal #2 & #5 Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L E, Section 34, T22S, R26E
County:	Eddy County, NM
GPS Coordinates:	N 32.35125° W 104.28832°

## Release Data

Date of Release:	07/16/2014
Type of Release:	Oil and produced water
Source of Release:	External corrosion of 4" x 2" swedge on heater treater
Volume of Release:	10 bbls oil, 4 bbls produced water
Volume Recovered:	4 bbls oil

## Remediation Specifications

Remediation Parameters:	Surface scrape to a depth of 6 inches across the entire leak areas. Backfill the site with clean soil.
Remediation Activities:	02/24/2015 to 03/02/2015

Plan Sent to OCD:	10/29/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/03/2014	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	10/29/2014	Email from Cliff Brunson to Sol Hughes
BLM Approval of Plan:	10/30/2014	Email from Sol Hughes to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 07/31/2014
Final C-141	Signed 03/05/2015
Site Diagram	July 2014
Groundwater Plot	175'
TOPO Maps	July 2014
Lab Summary	09/25/2014
Lab Analysis	09/25/2014
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.

03/16/2015

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	Midwest L Fed#2 & #5 Battery	Facility Type	Battery

Surface Owner	BLM	Mineral Owner		API No.	30-015-29130
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	34	22S	26E					Eddy County, NM

Latitude N 32.35125° Longitude W 104.28832°

#### NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	10 bbls oil, 4 bbls produced water	Volume Recovered	4 bbls oil
Source of Release	External corrosion/4" x 2" swedge on heater treater	Date and Hour of Occurrence	07/16/2014	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?	Mike Bratcher, NMOCD; Sol Hughes, BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	07/17/2014 @ 4:07 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.\*

External corrosion of heater treater components caused 10 bbls of oil and 4 bbls of produced water to leak onto the ground. A vacuum truck recovered 4 bbls of oil and the heater treater was restored to normal operating condition.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 50' x 40' inside the berm and 30' x 30' on location just west of the berm. 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:	Chancey.Summers@oxy.com			Conditions of Approval:	Attached <input type="checkbox"/>
Date:	7-31-14			Phone:	(575) 397-8216

\* Attach Additional Sheets If Necessary

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	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Midwest L Fed#2 & #5 Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-29130

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	34	22S	26E					Eddy County, NM

Latitude N 32.35125° Longitude W 104.28832°

### NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	10 bbls oil, 4 bbls produced water	Volume Recovered	4 bbls oil
Source of Release	External corrosion/4" x 2" swedge on heater treater	Date and Hour of Occurrence	07/16/2014	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?	Mike Bratcher, NMOCD; Sol Hughes, BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	07/17/2014 @ 4:07 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.\*

External corrosion of heater treater components caused 10 bbls of oil and 4 bbls of produced water to leak onto the ground. A vacuum truck recovered 4 bbls of oil and the heater treater was restored to normal operating condition.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 50' x 40' inside the berm and 30' x 30' on location just west of the berm. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/03/2014 and approved by Sol Hughes of the BLM via email on 10/30/2014.

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.

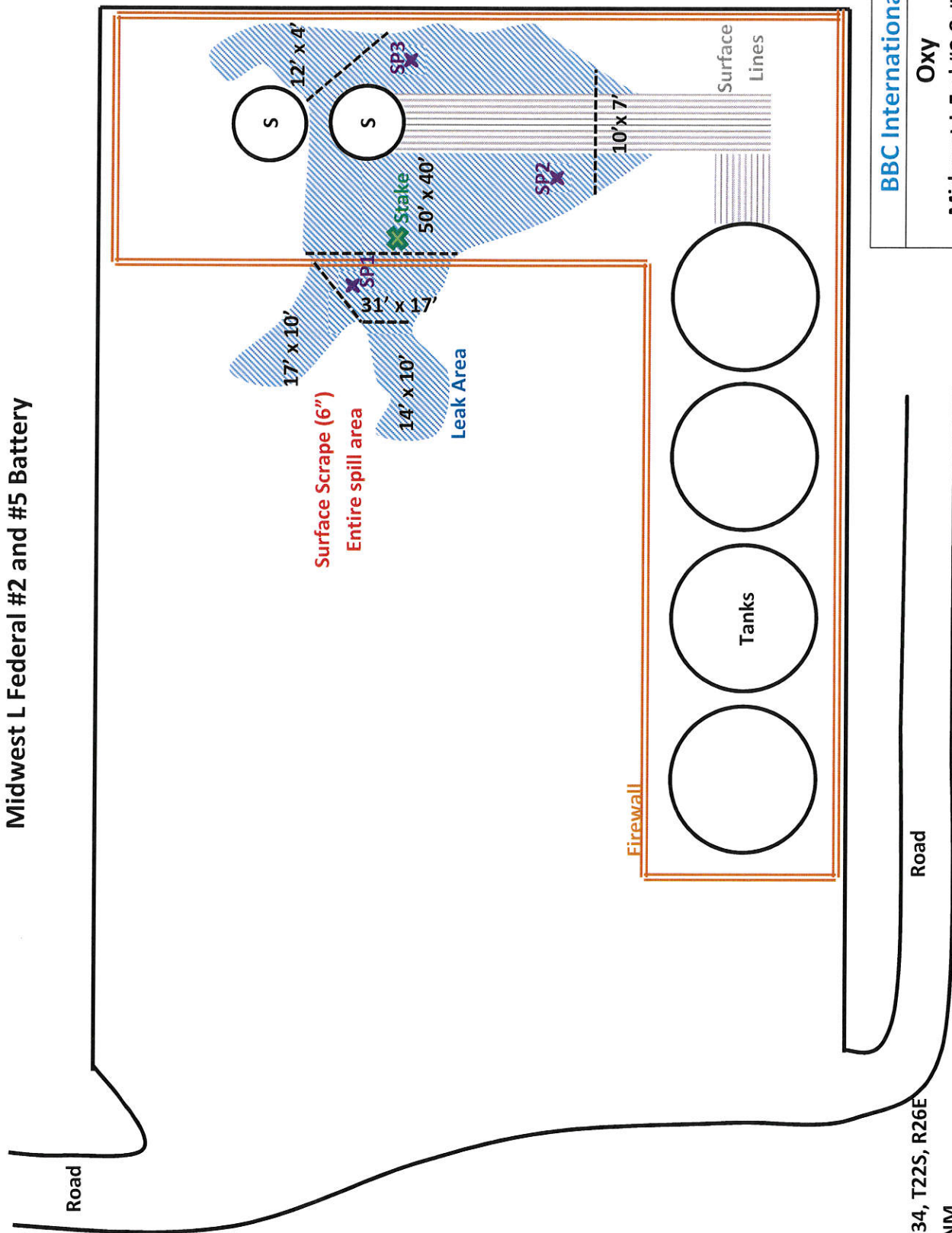
Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Christopher Jones	Approved by Environmental Specialist:		
Title: HES Advisor	Approval Date:	Expiration Date:	
E-mail Address: <u>Christopher Jones@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>3/5/15</u> Phone: (575) 628-4121			

\* Attach Additional Sheets If Necessary



Oxy

# Midwest L Federal #2 and #5 Battery



BBC International, Inc.	
Oxy	
Midwest L Fed #2 & #5 Battery	
Date: 07/31/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

U/L E, Section 34, T22S, R26E  
Eddy County, NM  
N 32.35125° W 104.28832°  
API# 30-015-29130

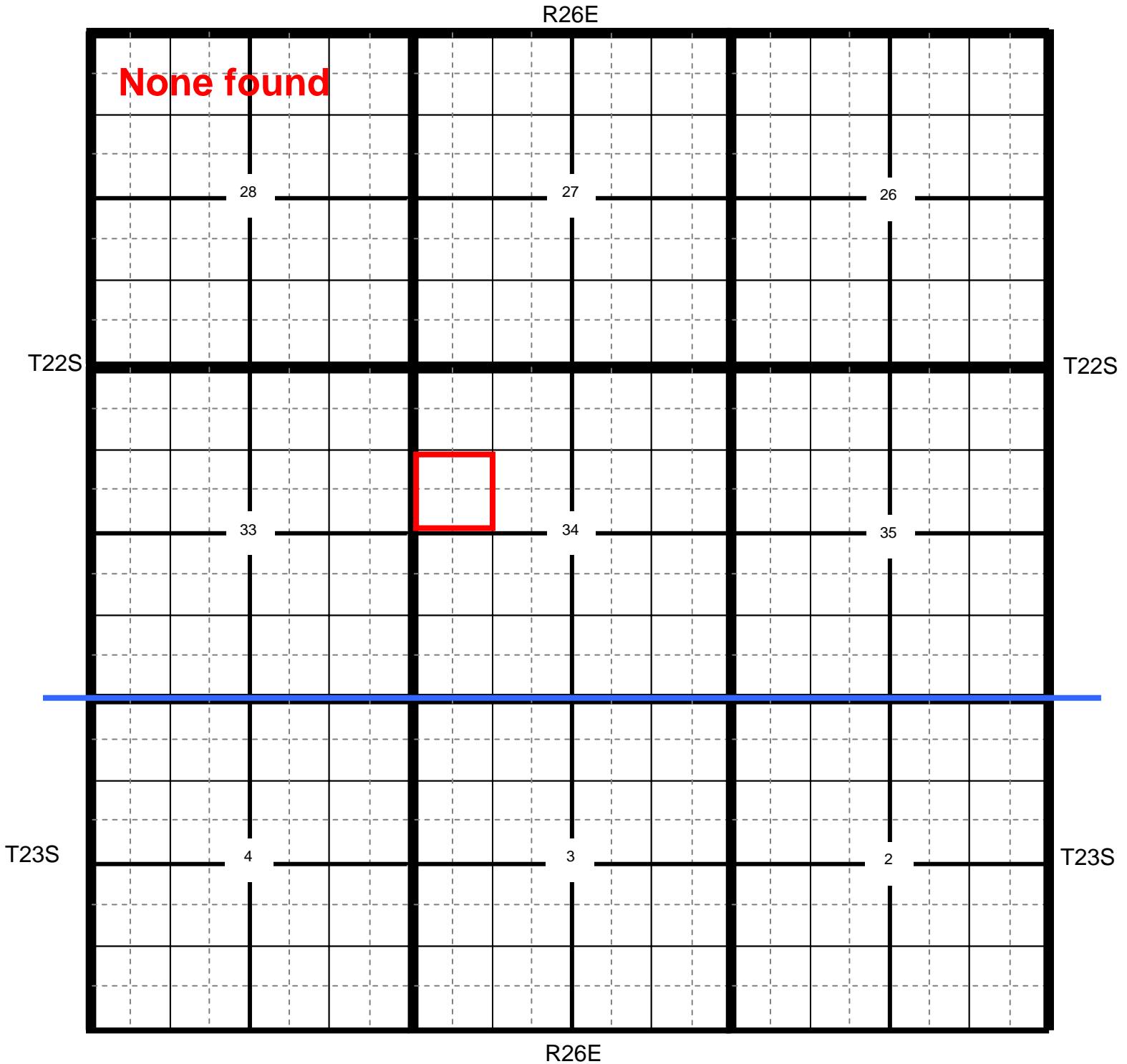


# Groundwater Plot

## Oxy Midwest L Federal #2 & #5 Battery

County Eddy County Unit Letter E Section 34 Township 22S Range 26E

Trend Map 175'





## Oxy Midwest L Federal #2 & #5 Btry

<b>County</b> Eddy	<b>Unit Letter</b> E	<b>Section</b> 34	<b>Township</b> 22S	<b>Range</b> 26E
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Trend Map 175'

1

2

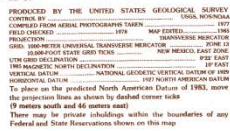
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Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

# Midwest L Federal #2 & #5 Battery

KITCHEN COVE QUADRANGLE  
NEW MEXICO-EDDY CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



SCALE 1:24 000

CONTOUR INTERVAL 20 FEET  
SUPPLEMENTAL CONTOUR INTERVAL 10 FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80221  
OR RESTON, VIRGINIA 22092

1	2	3	1 Acacia Peak
			2 Carlsbad West
			3 Carlsbad East
4		5	4 Carrizo Peak
			5 Otis
			6 Carlsbad Caverns
6	7	8	7 Black River Village
			8 Bond Dene

**ROAD LEGEND**

Improved Road .....  
Unimproved Road .....  
Trail .....

 Interstate Route  U.S. Route  State Route

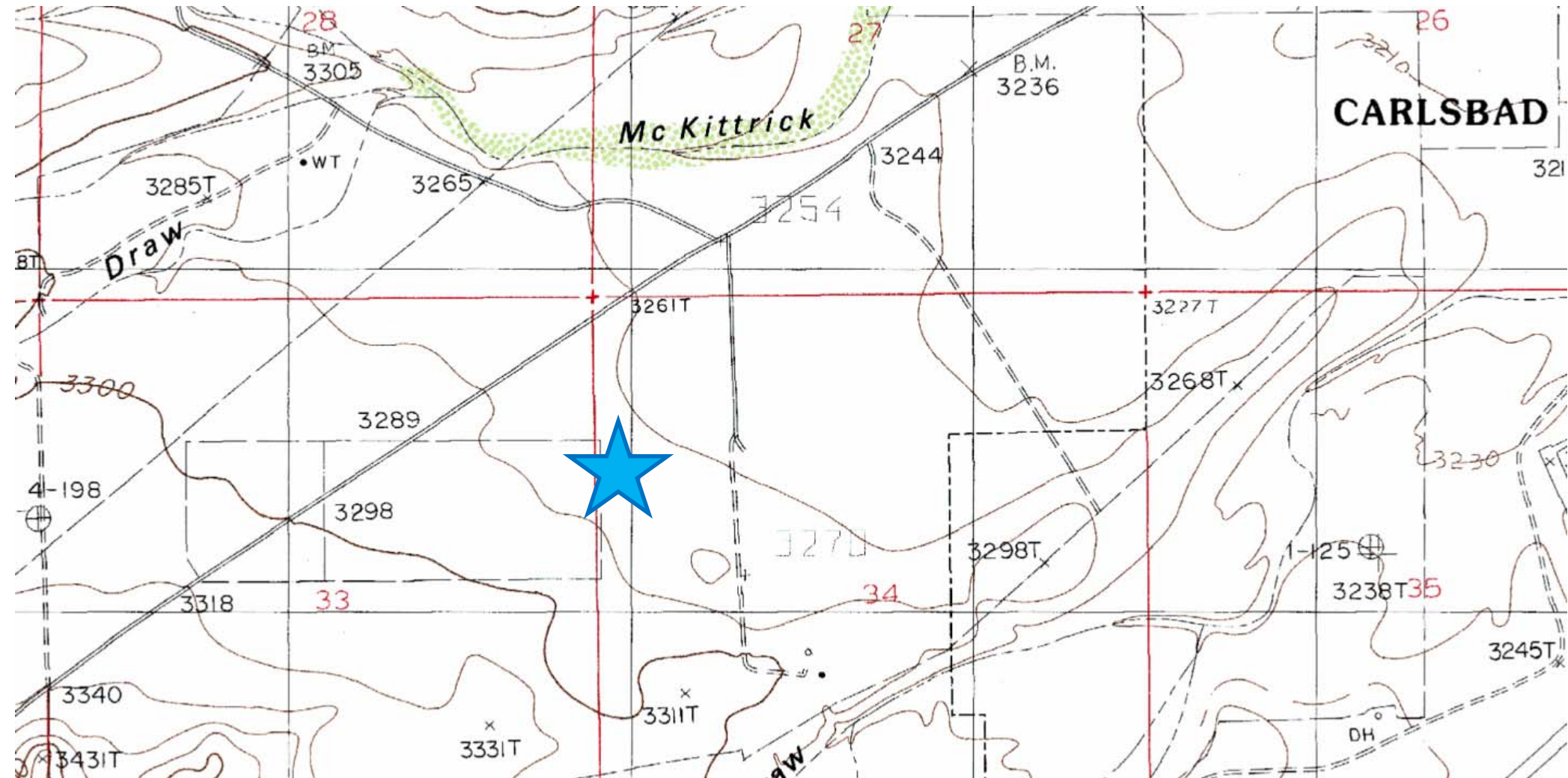
KITCHEN COVE, NEW MEXICO

32104-C3-TF-024



Oxy

## Midwest L Fed #2 & #5 Battery





**Laboratory Analytical Results Summary  
Midwest L Federal #2 and #5 Battery**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	9/25/14	9/25/14	9/25/14
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>80</b>	<b>192</b>	<b>208</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>99.9</b>	<b>31.7</b>	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	9/25/14	9/25/14	9/25/14
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>112</b>	<b>176</b>	<b>272</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>15.3</b>	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	9/25/14	9/25/14	9/25/14	9/25/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>16</b>	<b>576</b>	<b>896</b>	<b>240</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0



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

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September 30, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MIDWEST 'L' #2

Enclosed are the results of analyses for samples received by the laboratory on 09/26/14 10:35.

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". The signature is written in a cursive, flowing style.

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:	09/26/2014	Sampling Date:	09/25/2014
Reported:	09/30/2014	Sampling Type:	Soil
Project Name:	MIDWEST 'L' #2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 1 (H402942-01)**

BTX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85	
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27	
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60	
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28	
Total BTX	<0.300	0.300	09/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/26/2014	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	09/26/2014	ND	168	83.9	200	6.98	
DRO >C10-C28	99.9	10.0	09/26/2014	ND	186	92.8	200	5.47	

Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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: 09/26/2014  
Reported: 09/30/2014  
Project Name: MIDWEST 'L' #2  
Project Number: NOT GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 09/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: SP 1 @ 2 (H402942-02)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85	
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27	
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60	
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28	
Total BTX	<0.300	0.300	09/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/26/2014	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	09/26/2014	ND	168	83.9	200	6.98	
DRO >C10-C28	31.7	10.0	09/26/2014	ND	186	92.8	200	5.47	

Surrogate: 1-Chlorooctane 99.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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: 09/26/2014  
Reported: 09/30/2014  
Project Name: MIDWEST 'L' #2  
Project Number: NOT GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 09/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: SP 1 @ 3 (H402942-03)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85		
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27		
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60		
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28		
Total BTX	<0.300	0.300	09/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/26/2014	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	09/26/2014	ND	168	83.9	200	6.98	
DRO >C10-C28	<10.0	10.0	09/26/2014	ND	186	92.8	200	5.47	

Surrogate: 1-Chlorooctane 88.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.8 % 63.6-154

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: 09/26/2014  
 Reported: 09/30/2014  
 Project Name: MIDWEST 'L' #2  
 Project Number: NOT GIVEN  
 Project Location: CARLSBAD, NM

 Sampling Date: 09/25/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 2 @ 1 (H402942-04)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85		
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27		
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60		
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28		
Total BTX	<0.300	0.300	09/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/26/2014	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	09/26/2014	ND	179	89.5	200	0.798	
DRO >C10-C28	15.3	10.0	09/26/2014	ND	187	93.4	200	1.91	

Surrogate: 1-Chlorooctane 95.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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: 09/26/2014  
Reported: 09/30/2014  
Project Name: MIDWEST 'L' #2  
Project Number: NOT GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 09/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: SP 2 @ 2 (H402942-05)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85		
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27		
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60		
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28		
Total BTX	<0.300	0.300	09/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/26/2014	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	09/27/2014	ND	179	89.5	200	0.798	
DRO >C10-C28	<10.0	10.0	09/27/2014	ND	187	93.4	200	1.91	

Surrogate: 1-Chlorooctane 87.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.6 % 63.6-154

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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: 09/26/2014  
Reported: 09/30/2014  
Project Name: MIDWEST 'L' #2  
Project Number: NOT GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 09/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: SP 2 @ 3 (H402942-06)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85		
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27		
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60		
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28		
Total BTX	<0.300	0.300	09/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/26/2014	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	09/27/2014	ND	179	89.5	200	0.798	
DRO >C10-C28	<10.0	10.0	09/27/2014	ND	187	93.4	200	1.91	

Surrogate: 1-Chlorooctane 94.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.3 % 63.6-154

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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: 09/26/2014  
Reported: 09/30/2014  
Project Name: MIDWEST 'L' #2  
Project Number: NOT GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 09/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: SP 3 @ 1 (H402942-07)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85	
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27	
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60	
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28	
Total BTX	<0.300	0.300	09/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2014	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	09/27/2014	ND	179	89.5	200	0.798	
DRO >C10-C28	<10.0	10.0	09/27/2014	ND	187	93.4	200	1.91	

Surrogate: 1-Chlorooctane 94.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.8 % 63.6-154

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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: 09/26/2014  
Reported: 09/30/2014  
Project Name: MIDWEST 'L' #2  
Project Number: NOT GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 09/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: SP 3 @ 2 (H402942-08)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85		
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27		
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60		
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28		
Total BTX	<0.300	0.300	09/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/26/2014	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	09/27/2014	ND	179	89.5	200	0.798	
DRO >C10-C28	<10.0	10.0	09/27/2014	ND	187	93.4	200	1.91	

Surrogate: 1-Chlorooctane 93.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.5 % 63.6-154

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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: 09/26/2014  
Reported: 09/30/2014  
Project Name: MIDWEST 'L' #2  
Project Number: NOT GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 09/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: SP 3 @ 3 (H402942-09)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85		
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27		
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60		
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28		
Total BTX	<0.300	0.300	09/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	09/26/2014	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	09/27/2014	ND	179	89.5	200	0.798	
DRO >C10-C28	<10.0	10.0	09/27/2014	ND	187	93.4	200	1.91	

Surrogate: 1-Chlorooctane 89.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

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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: 09/26/2014  
Reported: 09/30/2014  
Project Name: MIDWEST 'L' #2  
Project Number: NOT GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 09/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: SP 3 @ 4 (H402942-10)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85		
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27		
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60		
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28		
Total BTX	<0.300	0.300	09/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/26/2014	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	09/27/2014	ND	179	89.5	200	0.798	
DRO >C10-C28	<10.0	10.0	09/27/2014	ND	187	93.4	200	1.91	

Surrogate: 1-Chlorooctane 90.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL 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.		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: Cliff Brunson		Company:																	
Address: P.O. Box 805		Attn:																	
City: Hobbs		Address:																	
Phone #: 575-397-6388		City: <i>Syme</i>																	
Fax #: 575-397-0397		State: Zip:																	
Project #:		Project Owner:																	
Project Name: <i>Midwest v. #2</i>		State: Zip:																	
Project Location: <i>Carlsbad</i>		Phone #:																	
Sample Name: <i>Jeff Ornelas</i>		Fax #:																	
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV	SAMPLING												
				GROUNDWATER															
				WASTEWATER															
				SOIL															
				OIL															
				SLUDGE															
				OTHER :															
				ACID/BASE:															
				ICE / COOL															
				OTHER :															
				DATE	TIME														
				9-25	9:11														
				9:50	9:50														
				10:19	10:19														
				10:40	10:40														
				10:59	10:59														
				11:11	11:11														
				11:59	11:59														
				13:09	13:09														
				13:39	13:39														
				14:55	14:55														
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 services. 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: <i>Jeff Ornelas</i>		Date: 9-25-14		Time: 10:30		Received By: <i>Carla L. L...</i>		Date: 9-25-14		Time: 10:35		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool		CHECKED BY: <i>Jeff Ornelas</i>		REMARKS:	
Relinquished By: <i>Jeff Ornelas</i>		Date: 9-25-14		Time: 10:30		Received By: <i>Carla L. L...</i>		Date: 9-25-14		Time: 10:35		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool		CHECKED BY: <i>Jeff Ornelas</i>		REMARKS:			
Delivered By: (Circle One) <i>Carla L. L...</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:													
Sampler - UPS - Bus - Other:																			

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

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## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Monday, November 03, 2014 10:48 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Patterson, Heather, EMNRD  
**Subject:** RE: Oxy - Midwest L Federal #2 and #5 Battery - Remediation Plan

RE: OXY USA \* Midwest L Fed 2 (2 & 5 Battery) \* 30-015-29130 \* E-34-22s-26e \* Eddy County, NM  
NMOCD Tracking: 2RP-2430 \* Date of release: 7/16/14

Cliff,

Your proposal for remediation of the above referenced release is approved. Federal sites will require like approval by BLM.

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:** Wednesday, October 29, 2014 2:51 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Oxy - Midwest L Federal #2 and #5 Battery - Remediation Plan

Mike,

This e-mail is to confirm our conversation on October 28, 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 6 inches across the entire leak area. All of the spill area 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

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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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## Kathy Purvis

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**From:** Hughes, Solomon <shughes@blm.gov>  
**Sent:** Thursday, October 30, 2014 11:46 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: OXY - Midwest L Federal #2 and #5 Battery - Remediation Plan

Cliff,

This plan is approved as written.

Bests,  
Sol

### Sol Hughes

Environmental Protection Division  
Bureau of Land Management  
620 E. Greene St  
Carlsbad, NM

Office: 575.234.5951  
Cell: 575.499.3378

On Wed, Oct 29, 2014 at 2:50 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Sol,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. Oxy will excavate to a depth of 6 inches across the entire leak area. All of the spill area 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  
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World-Wide Environmental Specialists  
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