



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

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## **OXY – RUM RUNNER 2 FED COM #1 BATTERY (8/10/16)**

### **REMEDIATION PLAN**

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OXY will excavate the spill area as depicted on the following site diagram. In the areas near SP1 and SP2, the entire area will be surface scraped (6 inches). The entire site will then be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

***APPROVED***

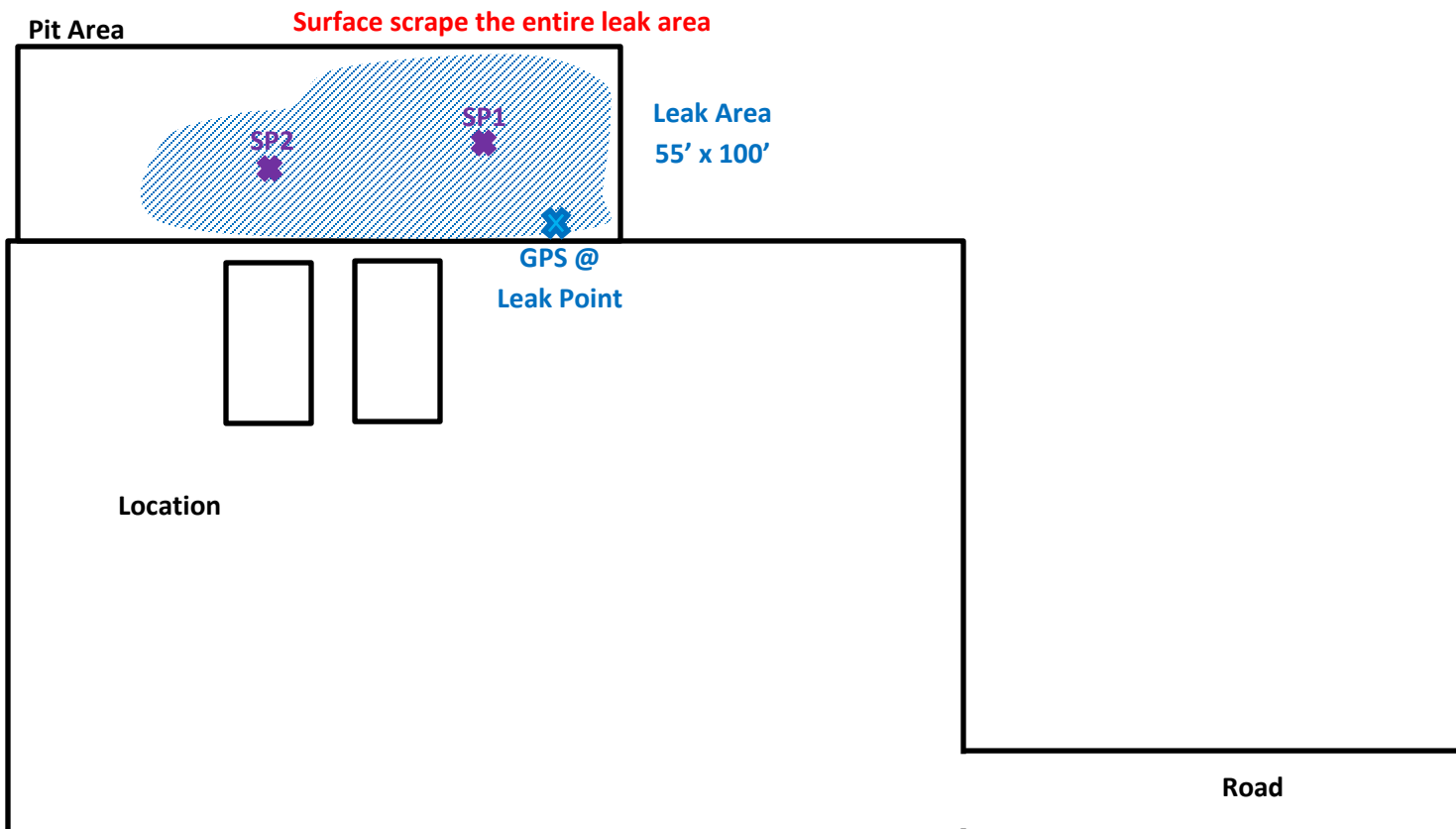
***By Olivia Yu at 2:13 pm, Jun 02, 2017***

NMOCD approves the delineation and proposed remediation plan for 1RP-4411 with one condition: provide bottom and sidewall confirmation samples.



Oxy

# Rum Runner 2 Fed Com #1 Battery (8/10/16)



U/L H, Section 2, T22S, R32E

Lea County, NM

N 32.42297° W 103.63806°

API# 30-025-40095

**BBC International, Inc.**

**Oxy**

**Rum Runner 2 Fed Com #1 Battery**

Date: 08/22/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



# Groundwater Plot

Oxy Rum Runner 2 Fed Com #1 Battery

County  
Lea

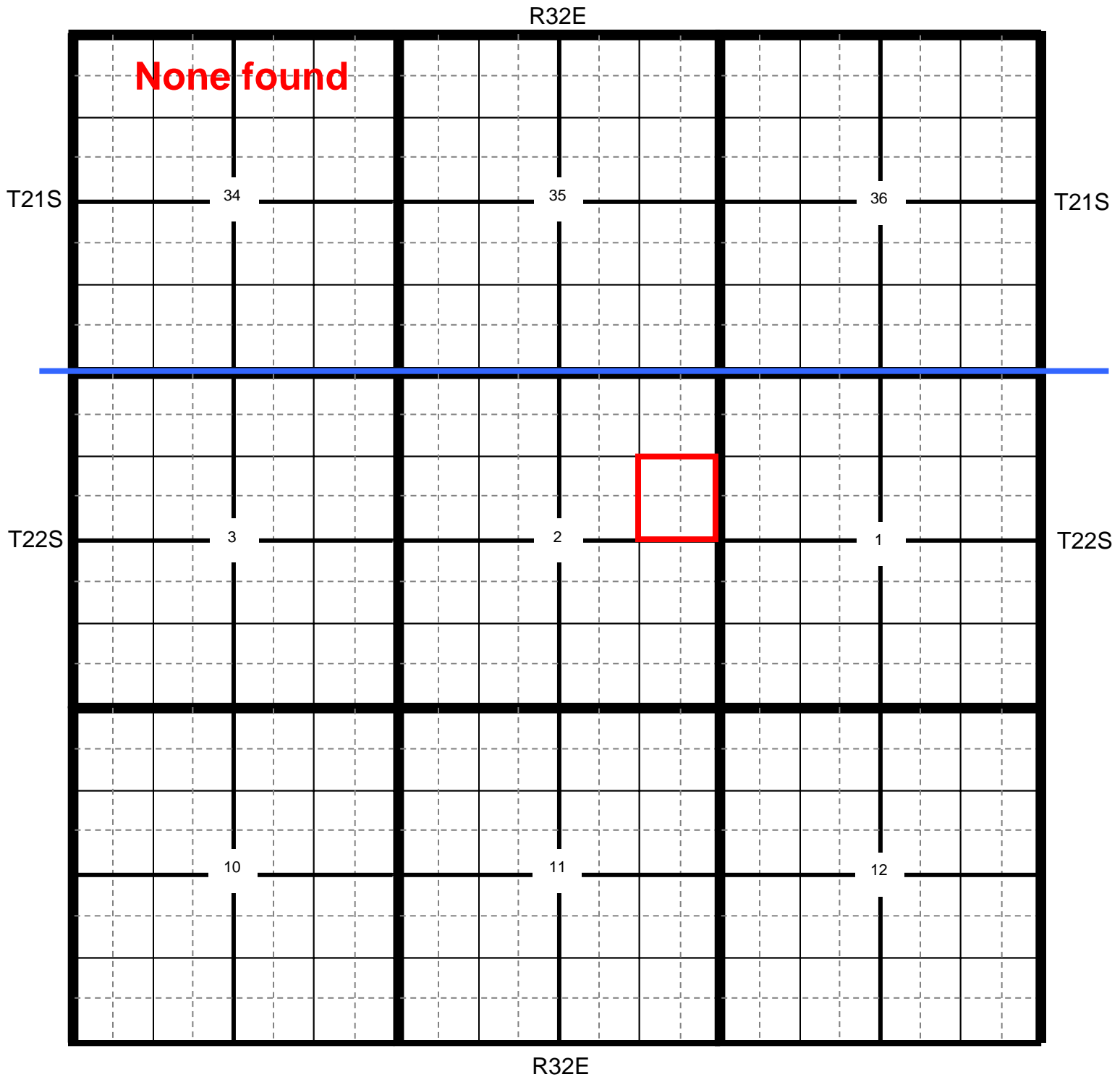
Unit Letter  
H

Section  
2

Township  
22S

Range  
32E

Trend Map 275'-300'



★ Location

● OCD

● USGS

● SEO

● All Databases

# Section Quarters

## Oxy Rum Runner 2 Fed Com #1 Battery

County Lea Unit Letter H Section 2 Township 22S Range 32E

Trend Map 275'-300'

1

2

NW/NW <b>None found</b>	NE/NW	NW/NE	NE/NE
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

**Laboratory Analytical Results Summary  
Rum Runner 2 Fed Com #1 Battery**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	9/27/16	9/27/16	9/27/16	9/27/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	N/A	N/A
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	N/A	N/A
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	N/A	N/A
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	N/A	N/A
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	N/A	N/A
<b>Chloride</b>	SM4500Cl-B		<b>80</b>	<16.0	<b>32</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	N/A	N/A
<b>DRO</b>	TPH 8015M		<b>847</b>	<b>12.3</b>	N/A	N/A

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	9/27/16	9/27/16	9/27/16	9/27/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	N/A	N/A
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	N/A	N/A
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	N/A	N/A
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	N/A	N/A
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	N/A	N/A
<b>Chloride</b>	SM4500Cl-B		<b>64</b>	<16.0	<b>64</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	N/A	N/A
<b>DRO</b>	TPH 8015M		<b>1030</b>	<10.0	N/A	N/A



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

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October 01, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RUM RUNNER #2 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 09/28/16 11:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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:	09/28/2016	Sampling Date:	09/27/2016
Reported:	10/01/2016	Sampling Type:	Soil
Project Name:	RUM RUNNER #2 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

**Sample ID: SP 1 @ SURFACE (H602176-01)**

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	09/29/2016	ND	2.09	104	2.00	0.598	
Toluene*	<0.050	0.050	09/29/2016	ND	2.13	106	2.00	0.937	
Ethylbenzene*	<0.050	0.050	09/29/2016	ND	2.08	104	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/29/2016	ND	6.29	105	6.00	1.76	
Total BTX	<0.300	0.300	09/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.6-140

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	09/30/2016	ND	416	104	400	3.92	

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	09/29/2016	ND	176	88.0	200	3.34	
DRO >C10-C28	847	10.0	09/29/2016	ND	189	94.5	200	4.28	

Surrogate: 1-Chlorooctane 99.0 % 35-147

Surrogate: 1-Chlorooctadecane 138 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	09/28/2016	Sampling Date:	09/27/2016
Reported:	10/01/2016	Sampling Type:	Soil
Project Name:	RUM RUNNER #2 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

**Sample ID: SP 1 @ 1' (H602176-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2016	ND	2.09	104	2.00	0.598	
Toluene*	<0.050	0.050	09/29/2016	ND	2.13	106	2.00	0.937	
Ethylbenzene*	<0.050	0.050	09/29/2016	ND	2.08	104	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/29/2016	ND	6.29	105	6.00	1.76	
Total BTEx	<0.300	0.300	09/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.6-140

Chloride, SM4500Cl-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	09/30/2016	ND	416	104	400	3.92		

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	09/29/2016	ND	176	88.0	200	3.34	
DRO >C10-C28	12.3	10.0	09/29/2016	ND	189	94.5	200	4.28	

Surrogate: 1-Chlorooctane 90.6 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

**Sample ID: SP 1 @ 2' (H602176-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2016	ND	416	104	400	3.92	

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\*=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:	09/28/2016	Sampling Date:	09/27/2016
Reported:	10/01/2016	Sampling Type:	Soil
Project Name:	RUM RUNNER #2 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

**Sample ID: SP 1 @ 3' (H602176-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/30/2016	ND	416	104	400	3.92		

**Sample ID: SP 2 @ SURFACE (H602176-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2016	ND	2.09	104	2.00	0.598	
Toluene*	<0.050	0.050	09/29/2016	ND	2.13	106	2.00	0.937	
Ethylbenzene*	<0.050	0.050	09/29/2016	ND	2.08	104	2.00	1.22	
Total Xylenes*	<0.150	0.150	09/29/2016	ND	6.29	105	6.00	1.76	
Total BTEX	<0.300	0.300	09/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/30/2016	ND	416	104	400	3.92		

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	09/29/2016	ND	176	88.0	200	3.34	
DRO >C10-C28	1030	10.0	09/29/2016	ND	189	94.5	200	4.28	

Surrogate: 1-Chlorooctane 67.8 % 35-147

Surrogate: 1-Chlorooctadecane 96.9 % 28-171

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\*=Accredited Analyte

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

Received:	09/28/2016	Sampling Date:	09/27/2016
Reported:	10/01/2016	Sampling Type:	Soil
Project Name:	RUM RUNNER #2 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

**Sample ID: SP 2 @ 1' (H602176-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2016	ND	2.09	104	2.00	0.598		
Toluene*	<0.050	0.050	09/29/2016	ND	2.13	106	2.00	0.937		
Ethylbenzene*	<0.050	0.050	09/29/2016	ND	2.08	104	2.00	1.22		
Total Xylenes*	<0.150	0.150	09/29/2016	ND	6.29	105	6.00	1.76		
Total BTEx	<0.300	0.300	09/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.6-140

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	09/30/2016	ND	416	104	400	3.92		

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	09/29/2016	ND	176	88.0	200	3.34	
DRO >C10-C28	<10.0	10.0	09/29/2016	ND	189	94.5	200	4.28	

Surrogate: 1-Chlorooctane 85.1 % 35-147

Surrogate: 1-Chlorooctadecane 96.9 % 28-171

**Sample ID: SP 2 @ 2' (H602176-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/30/2016	ND	416	104	400	3.92		

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\*=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:	09/28/2016	Sampling Date:	09/27/2016
Reported:	10/01/2016	Sampling Type:	Soil
Project Name:	RUM RUNNER #2 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

**Sample ID: SP 2 @ 3' (H602176-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/30/2016	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

## 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>Address:</b> P.O. Box 805 <b>City:</b> Hobbs <b>Phone #:</b> 575-397-6388 <b>Project #:</b>		<b>State:</b> NM <b>zip:</b> 88241 <b>Fax #:</b> 575-397-0397 <b>Project Owner:</b> Oxy <b>Project Location:</b> M. 115 Ranch <b>Sample Name:</b> Well 125		<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b> <b>Sample I.D.</b>		<b>(G)RAB OR (C)OMP.</b> <b># CONTAINERS</b> <b>GROUNDWATER</b> <b>WASTEWATER</b> <b>SOIL</b> <b>OIL</b> <b>SLUDGE</b> <b>OTHER :</b> <b>ACID/BASE:</b> <b>ICE / COOL</b> <b>OTHER :</b>		<b>MATRIX</b> <b>PRESERV</b> <b>SAMPLING</b>	
<b>PLEASE NOTE:</b> Liability and damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or for, 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.		<b>DATE</b> <b>TIME</b>		<b>REMARKS:</b>	
<b>Relinquished By:</b> <b>Relinquished By:</b>		<b>Received By:</b> <b>Received By:</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>Delivered By:</b> (Circle One) <b>Sampler - UPS - Bus - Other:</b>		<b>Sample Condition</b> <b>Cool</b> <input checked="" type="checkbox"/> <b>Intact</b> <input checked="" type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/>		<b>CHECKED BY:</b> <b>(Initials)</b>	

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	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Rum Runner 2 Fed Com #1 Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-40095

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	2	22S	32E					Lea County, NM

Latitude N 32.42297° Longitude W 103.63806°

#### NATURE OF RELEASE

Type of Release	Produced water mixed with rain water	Volume of Release	160 bbls	Volume Recovered	120 bbls produced water mixed with rain water
Source of Release	Corrosion of a 2" steel flow line	Date and Hour of Occurrence	08/10/2016	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?	Jamie Keyes, Kristen Lynch- NMOCD; Shelly Tucker- BLM		
By Whom?	Kathy@ BBC International, Inc.	Date and Hour	08/10/2016 @ 4:24 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.\*

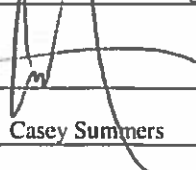
Describe Cause of Problem and Remedial Action Taken.\*

Corrosion of a 2" steel flow line caused a leak of 160 bbls of produced water. A vacuum truck recovered 120 bbls of a produced water and rain mixture and the line was put back in service.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 55' x 100' north of location in the pit area. Remediation will be completed in accordance with a remediation plan approved by both 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: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey_Summers@oxy.com		Conditions of Approval:	
Date: 8-22-16 Phone: (575) 513-8289		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary