



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

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## **OXY – CEDAR CANYON 22-15 FEE #31H (9/4/16)**

### **REMEDIATION PLAN**

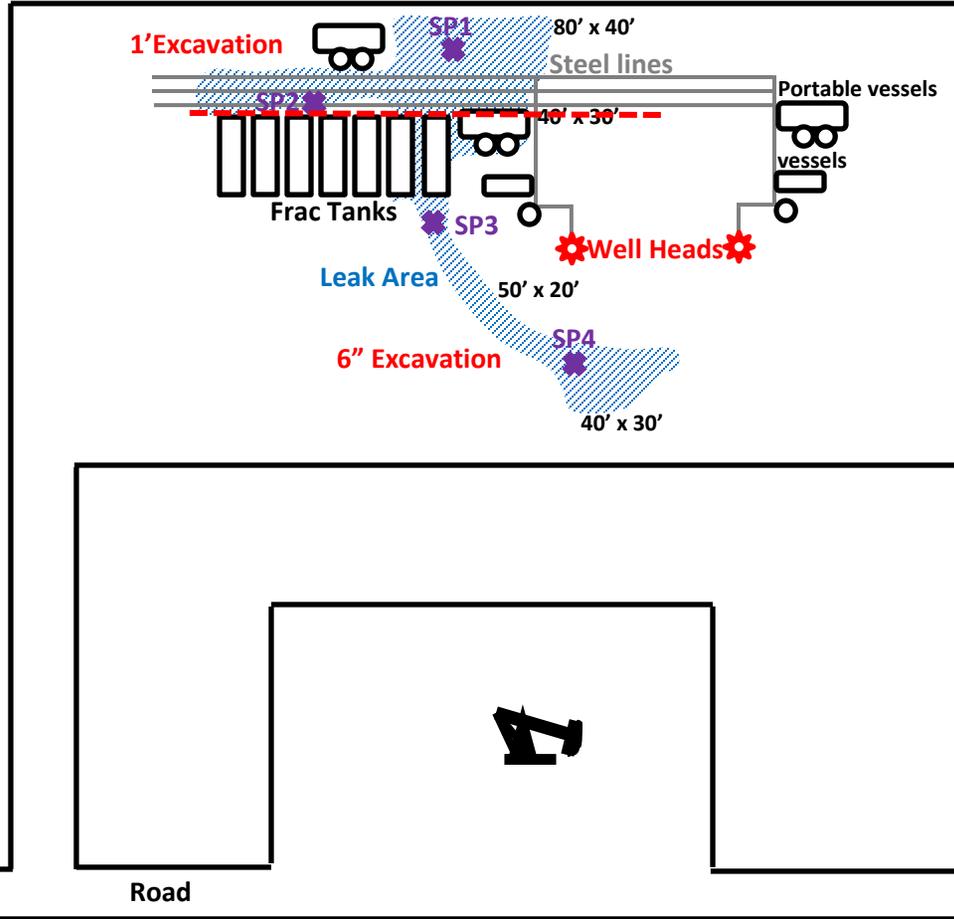
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OXY will excavate the spill area as depicted on the following site diagram. The leak area around SP1 and SP2 will be excavated to a depth of 1 foot and the areas around SP3 and SP4 will be excavated to a depth of 6 inches. The entire site will then be backfilled with clean soil.

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



Oxy  
Cedar Canyon 22-15 Fee #31H (9/4/16)



U/L C, Section 22, T24S, R29E

Eddy County, NM

N 32.20724° W 103.97523°

API# 30-015-43809

<b>BBC International, Inc.</b>	
<b>Oxy</b>	
<b>Cedar Canyon 22-15 Fee #31H</b>	
Date: 9/15/16	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2016



# Groundwater Plot

## Oxy Cedar Canyon 22-15 Fee #31H

County  
Eddy

Unit Letter  
C

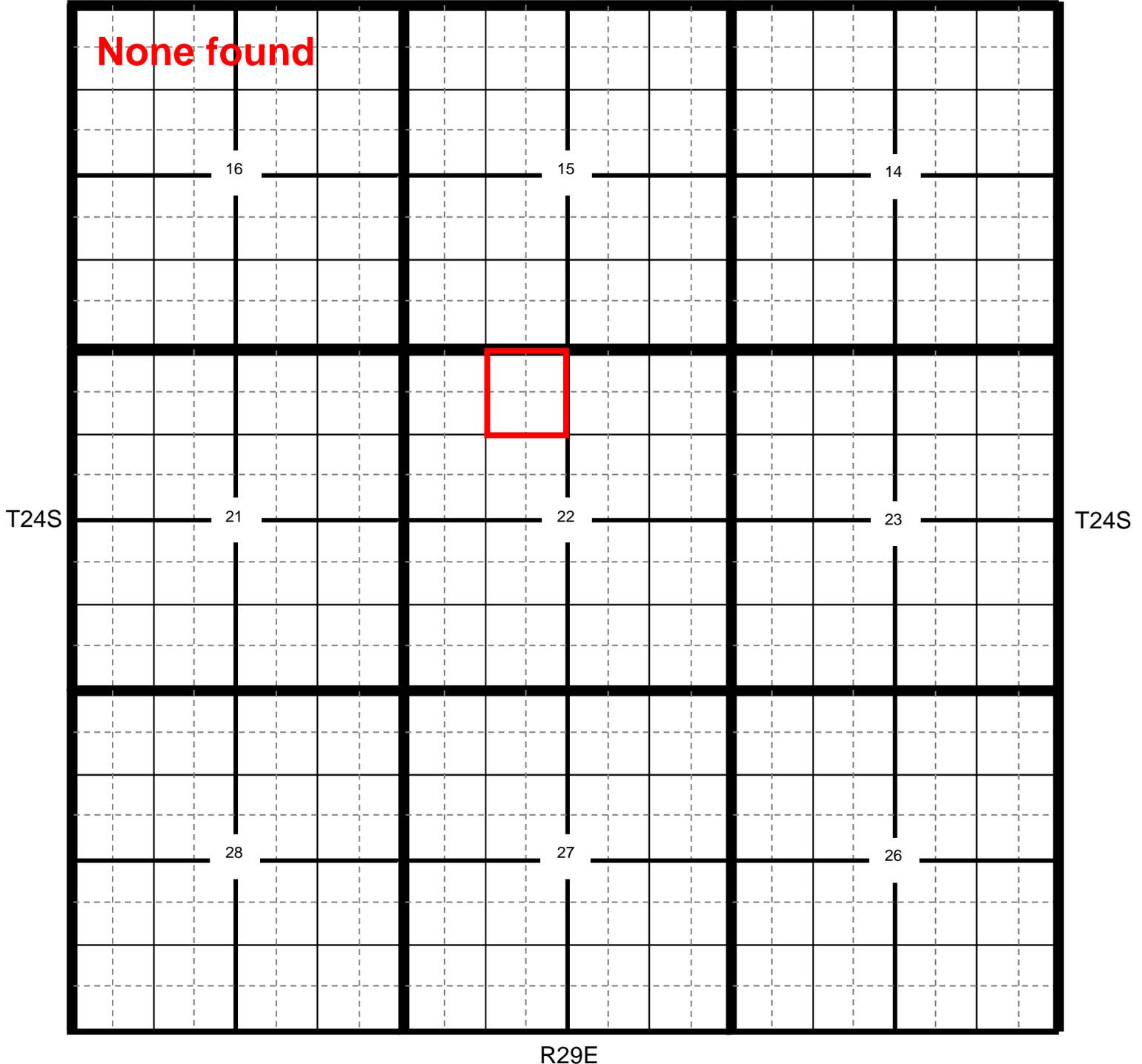
Section  
22

Township  
24S

Range  
29E

Trend Map 75'-100'

R29E



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Cedar Canyon 22-15 Fee #31H

County Eddy      Unit Letter C      Section 22      Township 24S      Range 29E

Trend Map 75'-100'

1

2

NW/NW Unit Letter D	NE/NW Unit Letter C	NW/NE <b>None found</b> Unit Letter B	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P

3

4

**Laboratory Analytical Results Summary  
Cedar Canyon 22-15 Fee #31H**

		Sample	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	10/31/16	10/31/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>1620</b>	<b>160</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

		Sample	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	10/31/16	10/31/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>1540</b>	<b>128</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	10/31/16	10/31/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>272</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	10/31/16	10/31/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>240</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a



November 10, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 22-15 FEE #31H

Enclosed are the results of analyses for samples received by the laboratory on 11/03/16 11:25.

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".

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:	11/03/2016	Sampling Date:	10/31/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22-15 FEE #31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ 1' (H602478-01)**

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTEX	<0.300	0.300	11/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1620</b>	16.0	11/07/2016	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	11/07/2016	ND	192	96.2	200	1.04	
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	191	95.3	200	0.616	

Surrogate: 1-Chlorooctane 92.0 % 35-147

Surrogate: 1-Chlorooctadecane 95.6 % 28-171

**Sample ID: SP 1 @ 2' (H602478-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	11/07/2016	ND	416	104	400	0.00	

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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:	11/03/2016	Sampling Date:	10/31/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22-15 FEE #31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 1' (H602478-03)**

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTEX	<0.300	0.300	11/09/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1540</b>	16.0	11/07/2016	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	11/07/2016	ND	192	96.2	200	1.04	
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	191	95.3	200	0.616	

*Surrogate: 1-Chlorooctane 111 % 35-147*
*Surrogate: 1-Chlorooctadecane 105 % 28-171*
**Sample ID: SP 2 @ 2' (H602478-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	11/07/2016	ND	400	100	400	0.00	QR-03

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:	11/03/2016	Sampling Date:	10/31/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22-15 FEE #31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ 1' (H602478-05)**

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTEX	<0.300	0.300	11/09/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>272</b>	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	178	89.2	200	0.976	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	177	88.6	200	4.03	

*Surrogate: 1-Chlorooctane 92.9 % 35-147*
*Surrogate: 1-Chlorooctadecane 83.4 % 28-171*
**Sample ID: SP 3 @ 2' (H602478-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	11/07/2016	ND	400	100	400	0.00	

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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:	11/03/2016	Sampling Date:	10/31/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22-15 FEE #31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ 1' (H602478-07)**

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	11/09/2016	ND	2.15	108	2.00	0.116		
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446		
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449		
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187		
Total BTEX	<0.300	0.300	11/09/2016	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>240</b>	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	178	89.2	200	0.976		
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	177	88.6	200	4.03		

*Surrogate: 1-Chlorooctane 97.3 % 35-147*
*Surrogate: 1-Chlorooctadecane 88.0 % 28-171*
**Sample ID: SP 4 @ 2' (H602478-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	11/07/2016	ND	400	100	400	0.00		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
- 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



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

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

10/7

Company Name: BBC International, Inc. **BILL TO** P.O. #: **ANALYSIS REQUEST**

Project Manager: Cliff Brunson  
 Address: P.O. Box 805  
 City: Hobbs State: NM Zip: 88241  
 Company: **Oxy**  
 Attn: **Cathy Summers**

Phone #: 575-397-6388 Fax #: 575-397-0397  
 Project #: Project Owner: Oxy  
 Project Name: CEDAR CANYON 22-15 FEE #31H  
 Project Location: EDDY COUNTY, NM  
 City: State: Zip:

Sampler Name: **JEFF ORNELAS** Fax #:  
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	CI	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL					
<b>H008478</b>																
	SP1 @ 1'	✓	61	✓							10/31/16	10:10 AM	✓			
	SP1 @ 2'	✓	61	✓							10/31/16	10:37 AM	✓			
	SP2 @ 1'	✓	61	✓							10/31/16	11:39 AM	✓			
	SP2 @ 2'	✓	61	✓							10/31/16	11:49 AM	✓			
	SP3 @ 1'	✓	61	✓							10/31/16	1:25 PM	✓			
	SP3 @ 2'	✓	61	✓							10/31/16	1:45 PM	✓			
	SP4 @ 1'	✓	61	✓							10/31/16	2:15 PM	✓			
	SP4 @ 2'	✓	61	✓							10/31/16	2:50 PM	✓			

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Relinquished By: **Jeff Ornelas** Date: **10/31/16** Time: **4:00 PM** Received By: **Kellie Sumner**

Relinquished By: **Kellie Sumner** Date: **11/3/16** Time: **2:54 PM** Received By: **Medi Henderson**

Delivered By: (Circle One) **Field Service** Sample Condition:  Intact  Cool  Yes  No

Sampler - UPS - Bus - Other: **#75 -4.6e** CHECKED BY: **Medi Henderson**

REMARKS:

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

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

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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	Cedar Canyon 22-15 Fee #31H	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-43809

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	22	24S	29E					Eddy County, NM

Latitude N 32.20724° Longitude W 103.97523°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	30 bbls oil, 30 bbls produced water	Volume Recovered	55 bbls
Source of Release	Tank spill due to operator error	Date and Hour of Occurrence	09/04/2016	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?	Mike Bratcher, Heather Patterson- NMOCD, Shelly Tucker- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	09/06/2016		
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.\*

Operator error caused and tank to spill 30 bbls of oil and 30 bbls of produced water onto location. A vacuum truck recovered 55 bbls of fluids and the error was corrected.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 100' x 80' on the location pad. 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: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 9-20-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary