



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 23 #002H (8/11/16)**

### **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 2 feet and the areas around SP3 and SP4 will be excavated to a depth of 1 foot. The leak area around SP5 will be excavated to a depth of 2.5 feet. The entire site will then be backfilled with clean soil.

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



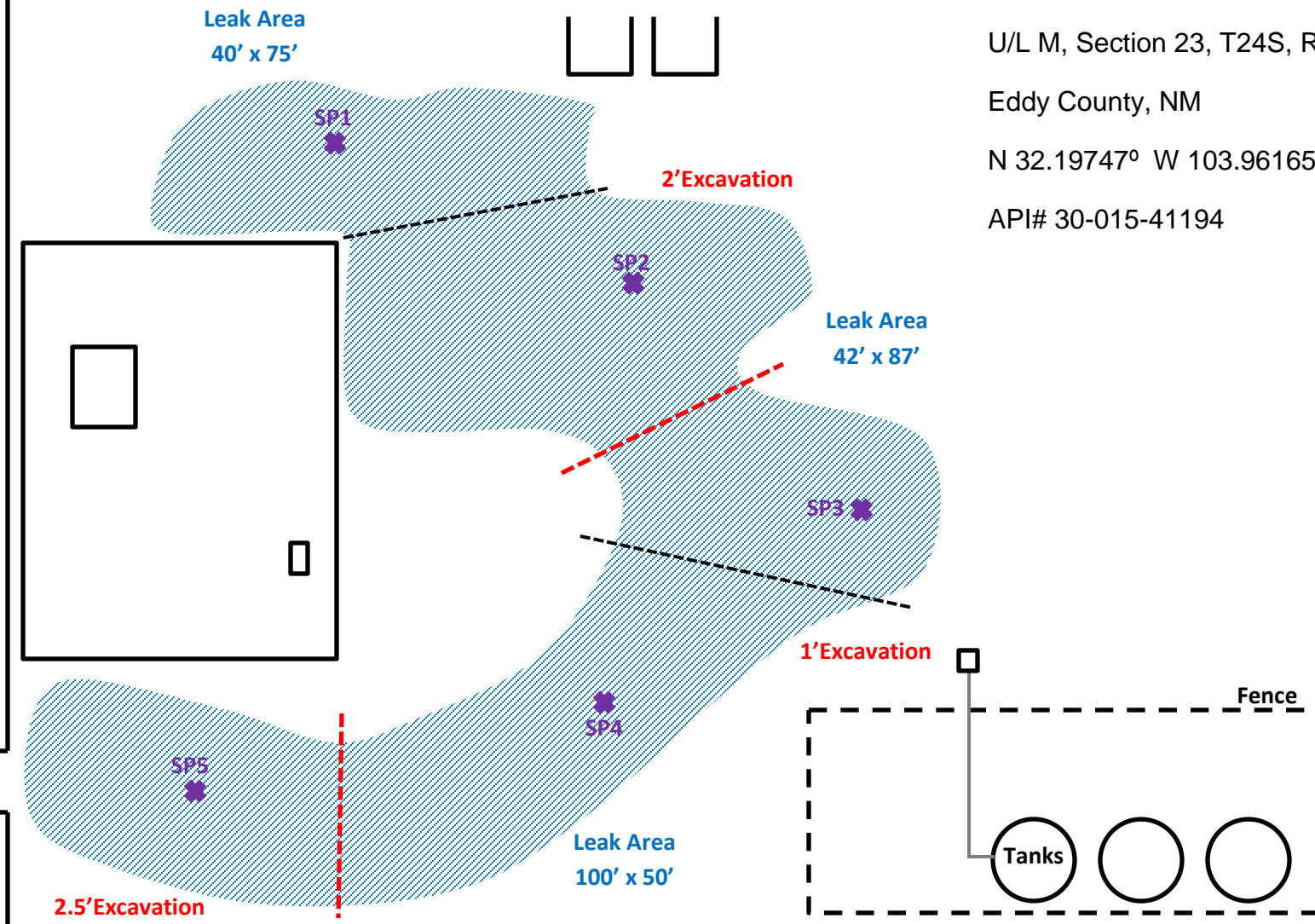
Oxy  
Cedar Canyon 23 #002H (8/11/16)

U/L M, Section 23, T24S, R29E

Eddy County, NM

N 32.19747° W 103.96165°

API# 30-015-41194



BBC International, Inc.

Oxy  
Cedar Canyon 23 #002H

Date: 10/06/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



# Groundwater Plot

Oxy Cedar Canyon 23 #002H

County  
Eddy

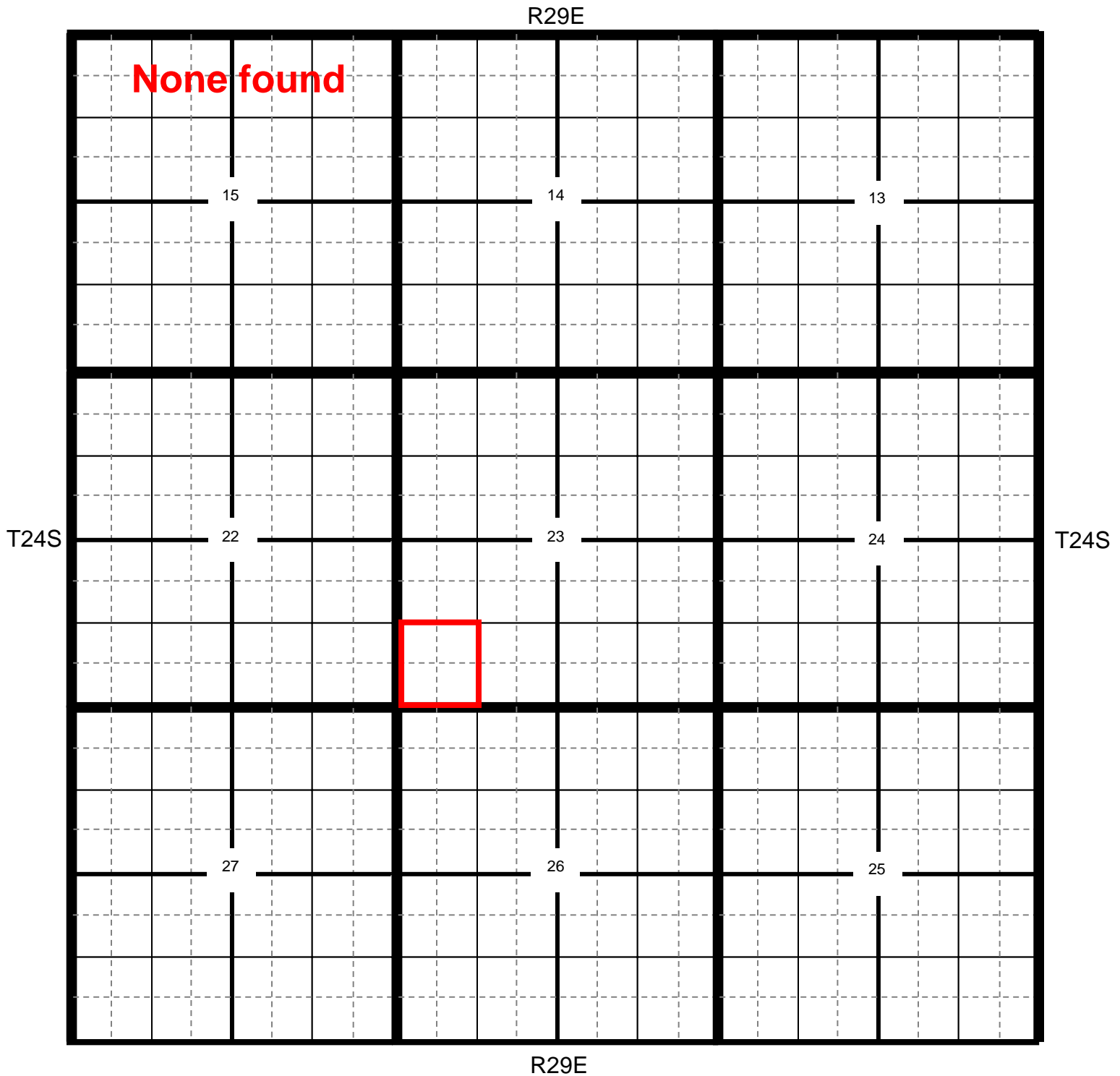
Unit Letter  
M

Section  
23

Township  
24S

Range  
29E

Trend Map 100'-125'



★ Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Cedar Canyon 23 #002H

**County** Eddy      **Unit Letter** M      **Section** 23      **Township** 24S      **Range** 29E

Trend Map 100'-125'

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**  
**Cedar Canyon 23 #002H**

		Sample	SP1 @ SURFACE	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	10/31/16	10/31/16	10/31/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>8130</b>	<b>1550</b>	<b>80</b>
<b>GRO</b>	TPH 8015M		n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a	n/a

		Sample	SP2 @ SURFACE	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	10/31/16	10/31/16	10/31/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>640</b>	<b>1920</b>	<b>80</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>723</b>	n/a	n/a

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	10/31/16	10/31/16	10/31/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>9860</b>	<b>848</b>	<b>272</b>
<b>GRO</b>	TPH 8015M		n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a	n/a

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	10/31/16	10/31/16	10/31/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>6800</b>	<b>768</b>	<b>288</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>68.6</b>	n/a	n/a

		Sample	SP5 @ SURFACE	SP5 @ 2'	SP5 @ 4'	SP5 @ 5'
Analyte	Method	Date	10/31/16	10/31/16	10/31/16	10/31/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>38400</b>	<b>1840</b>	<b>528</b>	<b>224</b>
<b>GRO</b>	TPH 8015M		n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a	n/a	n/a



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

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November 10, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 23 #002H

Enclosed are the results of analyses for samples received by the laboratory on 11/03/16 11:26.

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:	11/03/2016	Sampling Date:	10/31/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 23 #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ SURFACE (H602477-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	11/07/2016	ND	416	104	400	0.00	

**Sample ID: SP 1 @ 2' (H602477-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	11/07/2016	ND	416	104	400	0.00	

**Sample ID: SP 1 @ 3' (H602477-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/07/2016	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	11/03/2016	Sampling Date:	10/31/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 23 #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ SURFACE (H602477-04)**

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) 110 % 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
Chloride	640	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	723	10.0	11/07/2016	ND	191	95.3	200	0.616	

Surrogate: 1-Chlorooctane 85.6 % 35-147

Surrogate: 1-Chlorooctadecane 123 % 28-171

**Sample ID: SP 2 @ 2' (H602477-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	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 23 #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 3' (H602477-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/07/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ SURFACE (H602477-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	11/07/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 1' (H602477-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	11/07/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 2' (H602477-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/07/2016	ND	416	104	400	0.00	

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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 23 #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ SURFACE (H602477-10)**

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
Chloride	6800	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	68.6	10.0	11/07/2016	ND	191	95.3	200	0.616	

Surrogate: 1-Chlorooctane 88.9 % 35-147

Surrogate: 1-Chlorooctadecane 85.2 % 28-171

**Sample ID: SP 4 @ 1' (H602477-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	11/07/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 11/03/2016  
Reported: 11/10/2016  
Project Name: CEDAR CANYON 23 #002H  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 10/31/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H602477-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/07/2016	ND	416	104	400	0.00	

**Sample ID: SP 5 @ SURFACE (H602477-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38400	16.0	11/07/2016	ND	416	104	400	0.00	

**Sample ID: SP 5 @ 2' (H602477-14)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	11/07/2016	ND	416	104	400	0.00	

**Sample ID: SP 5 @ 4' (H602477-15)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/07/2016	ND	416	104	400	0.00	

**Sample ID: SP 5 @ 5' (H602477-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/07/2016	ND	416	104	400	0.00	

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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







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	Cedar Canyon 23 #002H	Facility Type	Well
Surface Owner	BLM	Mineral Owner	API No. 30-015-41194

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	23	24S	29E					Eddy County, NM

Latitude N 32.19747° Longitude W 103.96165°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	185 bbls	Volume Recovered	170 bbls
Source of Release	Mechanical failure on an 8" poly frac line	Date and Hour of Occurrence	08/11/2016	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	08/11/2016 @ 3:50 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.\*

Mechanical failure of an 8" poly frac line caused a leak of 185 bbls of produced water. A vacuum truck recovered 170 bbls and the line was put back in service.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 120' 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:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: <a href="mailto:Casey.Summers@oxy.com">Casey.Summers@oxy.com</a>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-31-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary