



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

OXY – FNR 26 FEDERAL #1 CTB (10/3/16)

REMEDIATION PLAN

OXY will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 1 foot. The entire site will then be backfilled with clean soil.

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



Oxy

FNR 26 Federal #1 CTB (10/3/16)

Road

Road to leak

FNR 26 #1

Road

700 ft

25' x 2'

SP2

SP1

Leak area

SP3

25' x 25'

1' Excavation across entire leak area

U/L M, Section 26, T23S, R30E

Eddy County, NM

N 32.26969° W 103.85422°

API# 30-015-30412

BBC International, Inc.

Oxy

FNR 26 Federal #1 CTB

Date: 10/17/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



Groundwater Plot

Oxy FNR 26 Federal #1 CTB

County
Eddy

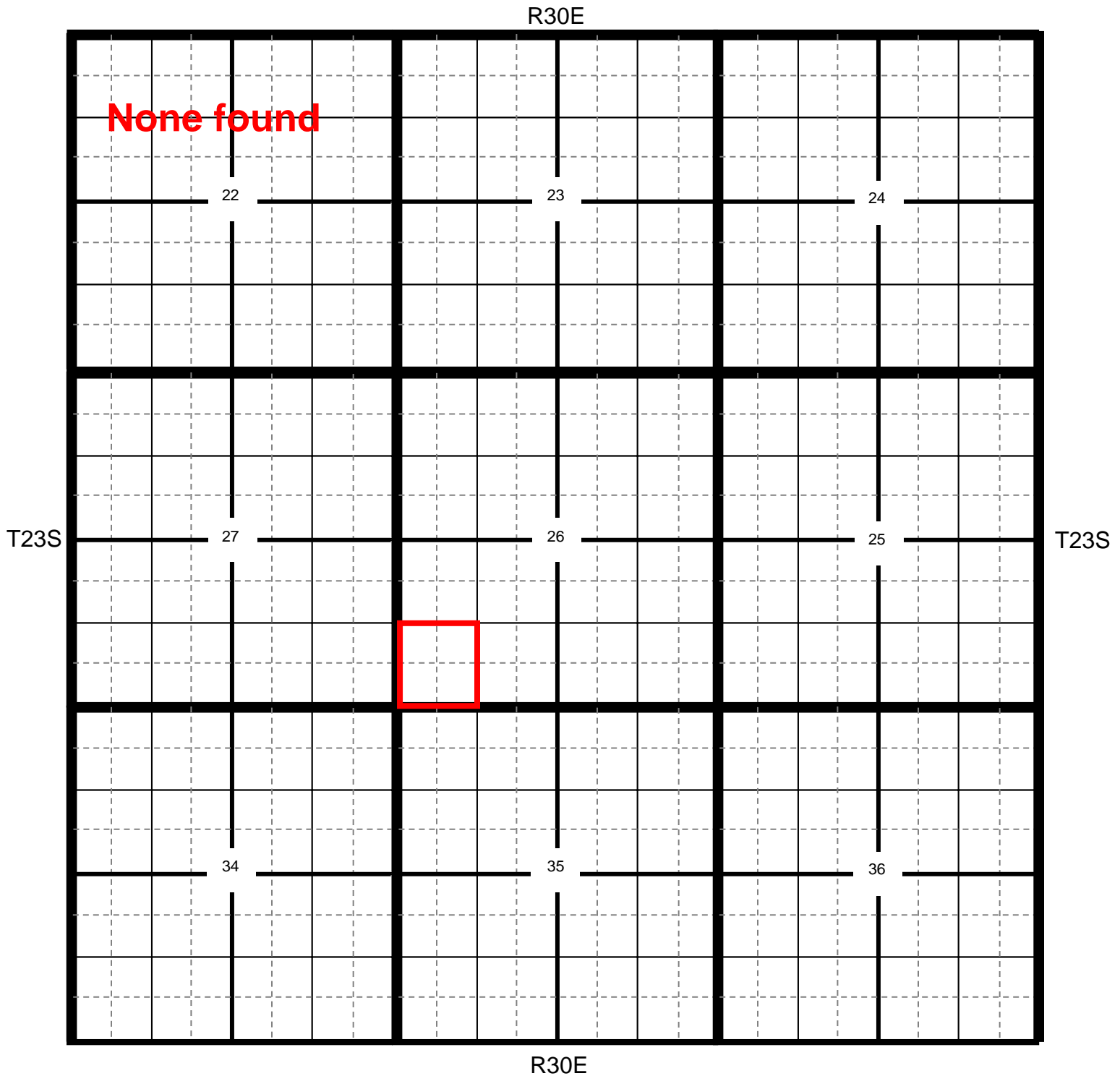
Unit Letter
M

Section
26

Township
23S

Range
30E

Trend Map 350'



★ Location

● OCD

● USGS

● SEO

● All Databases

Oxy FNR Federal #1 CTB

County Eddy **Unit Letter** M **Section** 26 **Township** 23S **Range** 30E

Trend Map 350'

1

2

NW/NW None found	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
FNR 26 Federal #1 CTB

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	10/24/16	10/24/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.081	<0.050
Ethylbenzene	BTEX 8021B		0.084	<0.050
Total Xylenes	BTEX 8021B		0.209	<0.150
Total BTEX	BTEX 8021B		0.375	<0.300
Chloride	SM4500Cl-B		464	96
GRO	TPH 8015M		<100	<50.0
DRO	TPH 8015M		7040	804

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	10/24/16	10/24/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.071	<0.050
Ethylbenzene	BTEX 8021B		0.066	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		432	112
GRO	TPH 8015M		<100	<50.0
DRO	TPH 8015M		7790	1210

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	10/24/16	10/24/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.07	<0.050
Ethylbenzene	BTEX 8021B		0.062	0.078
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		1180	64
GRO	TPH 8015M		<50.0	<50.0
DRO	TPH 8015M		3960	3490



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

November 02, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FNR 26 FED #1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/27/16 16:00.

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.

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: 10/27/2016
Reported: 11/02/2016
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/24/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H602418-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2016	ND	2.38	119	2.00	0.619	
Toluene*	0.081	0.050	11/01/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	0.084	0.050	11/01/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	0.209	0.150	11/01/2016	ND	7.09	118	6.00	0.343	
Total BTX	0.375	0.300	11/01/2016	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	464	16.0	11/01/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	10/29/2016	ND	176	88.0	200	1.06		
DRO >C10-C28	7040	100	10/29/2016	ND	186	92.8	200	11.9		

Surrogate: 1-Chlorooctane 90.5 % 35-147

Surrogate: 1-Chlorooctadecane 292 % 28-171

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: 10/27/2016
 Reported: 11/02/2016
 Project Name: FNR 26 FED #1 CTB
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/24/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H602418-02)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2016	ND	2.38	119	2.00	0.619		
Toluene*	<0.050	0.050	11/01/2016	ND	2.43	122	2.00	0.0870		
Ethylbenzene*	<0.050	0.050	11/01/2016	ND	2.35	118	2.00	0.173		
Total Xylenes*	<0.150	0.150	11/01/2016	ND	7.09	118	6.00	0.343		
Total BTX	<0.300	0.300	11/01/2016	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	96.0	16.0	11/01/2016	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	<50.0	50.0	10/29/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	804	50.0	10/29/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 84.2 % 35-147

Surrogate: 1-Chlorooctadecane 121 % 28-171

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Analytical Results For:

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

Received: 10/27/2016
Reported: 11/02/2016
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/24/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H602418-03)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2016	ND	2.38	119	2.00	0.619	
Toluene*	0.071	0.050	11/01/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	0.066	0.050	11/01/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	<0.150	0.150	11/01/2016	ND	7.09	118	6.00	0.343	
Total BTX	<0.300	0.300	11/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	432	16.0	11/01/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	10/29/2016	ND	176	88.0	200	1.06		
DRO >C10-C28	7790	100	10/29/2016	ND	186	92.8	200	11.9		

Surrogate: 1-Chlorooctane 95.2 % 35-147

Surrogate: 1-Chlorooctadecane 352 % 28-171

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Analytical Results For:

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

Received: 10/27/2016
Reported: 11/02/2016
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/24/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H602418-04)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2016	ND	2.38	119	2.00	0.619		
Toluene*	<0.050	0.050	11/01/2016	ND	2.43	122	2.00	0.0870		
Ethylbenzene*	<0.050	0.050	11/01/2016	ND	2.35	118	2.00	0.173		
Total Xylenes*	<0.150	0.150	11/01/2016	ND	7.09	118	6.00	0.343		
Total BTX	<0.300	0.300	11/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	112	16.0	11/01/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/29/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	1210	50.0	10/29/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 99.2 % 35-147

Surrogate: 1-Chlorooctadecane 174 % 28-171

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Analytical Results For:

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

Received: 10/27/2016
Reported: 11/02/2016
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/24/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H602418-05)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2016	ND	2.38	119	2.00	0.619	
Toluene*	0.070	0.050	11/01/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	0.062	0.050	11/01/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	<0.150	0.150	11/01/2016	ND	7.09	118	6.00	0.343	
Total BTEx	<0.300	0.300	11/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	1180	16.0	11/01/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	10/29/2016	ND	176	88.0	200	1.06		
DRO >C10-C28	3960	50.0	10/29/2016	ND	186	92.8	200	11.9		

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 183 % 28-171

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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: 10/27/2016
Reported: 11/02/2016
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/24/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H602418-06)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2016	ND	2.38	119	2.00	0.619	
Toluene*	<0.050	0.050	11/01/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	0.078	0.050	11/01/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	<0.150	0.150	11/01/2016	ND	7.09	118	6.00	0.343	
Total BTEx	<0.300	0.300	11/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	64.0	16.0	11/01/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/29/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	3490	50.0	10/29/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 95.4 % 35-147

Surrogate: 1-Chlorooctadecane 203 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.											
Project Manager: Cliff Brunson											
Address: P.O. Box 805											
City: Hobbs State: NM Zip: 88241											
Phone #: 575-397-6388 Fax #: 575-397-0397											
Project #:											
Project Owner: Oly											
Project Name: ENR 26 FED #1 CTB											
Project Location:											
Sampler Name: Jeff O'Neals											
FOR LAB USE ONLY											
Lab I.D. Sample I.D.											
H002419	SPIG SURFACE	(G) RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	CV
1	SPIG SURFACE	G	V	GROUNDWATER	ACID/BASE:	I/O-24-16	847	V	V	V	V
2	" "	G	V	WASTEWATER	ICE / COOL	I/O-24-16	900	V	V	V	V
3	SPIG SURFACE	G	V	SOIL	OTHER :	I/O-24-16	933	V	V	V	V
4	" "	G	V	OIL	OTHER :	I/O-24-16	955	V	V	V	V
5	SPIG SURFACE @ 1'	G	V	SLUDGE	OTHER :	I/O-24-16	1130	V	V	V	V
6	@ 1'	G	V	OTHER :	OTHER :	I/O-24-16	1225	V	V	V	V
RELEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy, for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.											
Relinquished By: [Signature]						Received By: [Signature]					
Date: 10-27-16	Time: 8:00	Date: 10-27-16	Time: 4:00	Sample Condition: <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Checked BY: [Initials]	Phone Result: Fax Result:	Yes <input type="checkbox"/> No <input type="checkbox"/>	Add'l Phone #:	Add'l Fax #:		
REMARKS:											

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	PO Box 4294, Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	FNR 26 Federal #1 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-30412

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	26	23S	30E					Eddy County, NM

Latitude N 32.26969° Longitude W 103.85422°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	10 bbls	Volume Recovered	0 bbls
Source of Release	Compromised 3" poly water transfer line	Date and Hour of Occurrence	10/03/2016	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 and Heather Patterson-NMOCD, Shelly Tucker-BLM		
By Whom?	Kathy Purvis @ BBC International Inc.	Date and Hour	10/03/2016 @ 4:34 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.*

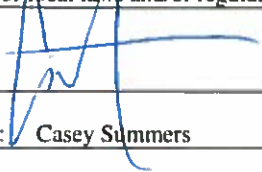
Describe Cause of Problem and Remedial Action Taken.*

A compromised 3" poly water transfer line spilled 10 bbls of produced water off location. No fluids were recovered and the line was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 25' x 25' approximately 700 feet east of location. Remediation will be completed according to a remediation plan approved by both the BLM and NMOCD.

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:		Attached <input type="checkbox"/>
Date: 10-17-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary