



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 – McKittrick Hills CTB (01/07/2017)

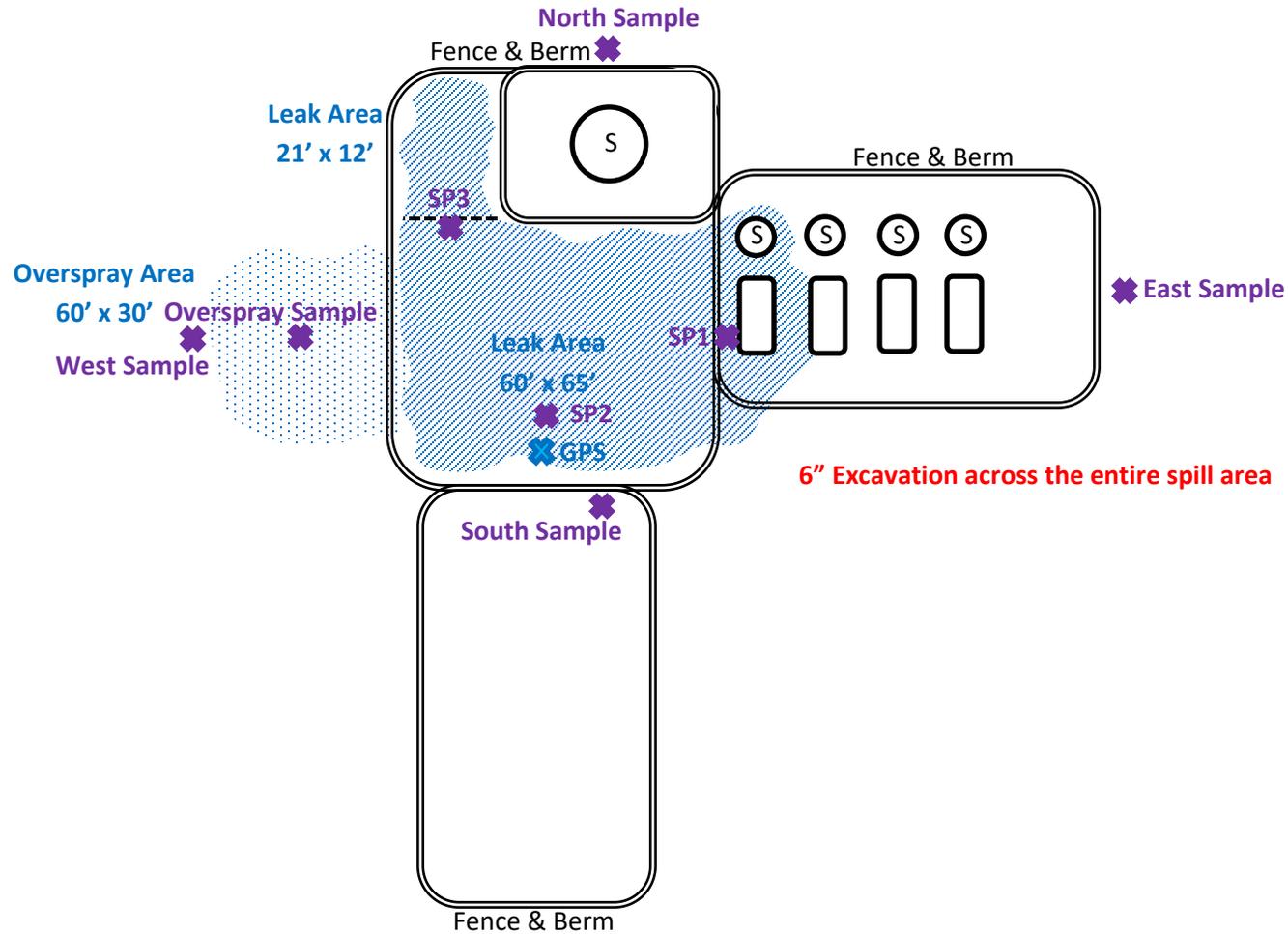
REMEDIATION PLAN, RP # 2RP-4087

Oxy will excavate the spill area as depicted on the following site diagram. The entire leak area 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
McKittrick Hills CTB (1/7/17)



U/L A , Section 14, T22S, R24E

Eddy County, NM

N 32.39762° W 104.46145°

API# 30-015-21010

BBC International, Inc.	
Oxy	
McKittrick Hills CTB	
Date: 01/19/2017	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2017



Groundwater Plot

Oxy McKittrick Hills CTB

County
Eddy

Unit Letter
A

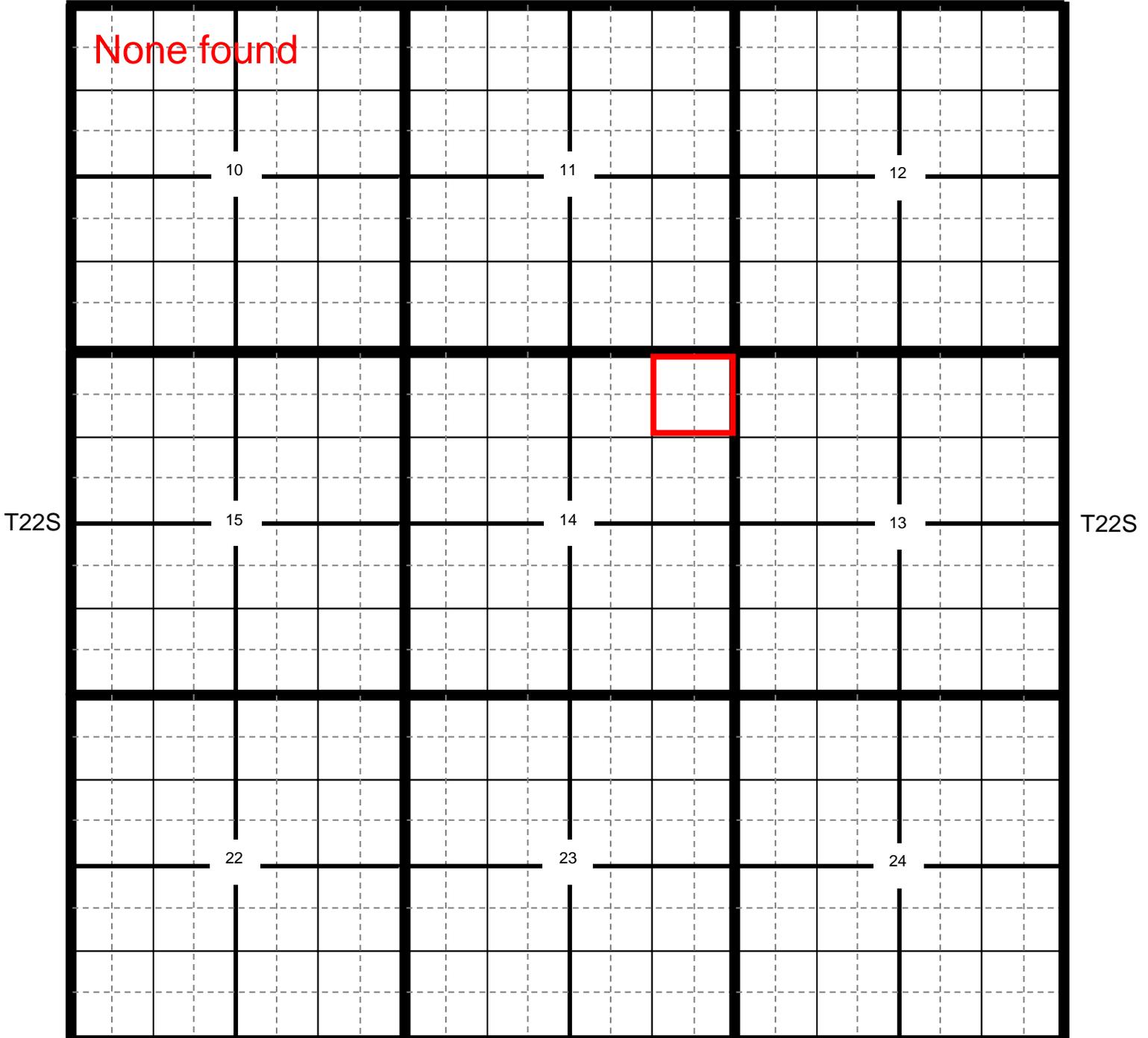
Section
14

Township
22S

Range
24E

Trend Map 100'-125'

R24E



R24E

📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy McKittrick Hills CTB

County Eddy Unit Letter A Section 14 Township 22S Range 24E

Trend Map 100'-125'

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
McKittrick Hills CTB**

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	1/25/17	1/25/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		128	48
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	2900

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	1/25/17	1/25/17
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		112	48

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	1/25/17	1/25/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		112	48
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	2660

		Sample	OVERSPRAY @ SURFACE
Analyte	Method	Date	1/25/17
			mg/Kg
Chloride	SM4500Cl-B		16

		Sample	NORTH @ SURFACE
Analyte	Method	Date	1/25/17
			mg/Kg
Chloride	SM4500Cl-B		<16.0

		Sample	EAST @ SURFACE
Analyte	Method	Date	1/25/17
			mg/Kg
Chloride	SM4500Cl-B		<16.0

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	1/25/17
			mg/Kg
Chloride	SM4500Cl-B		<16.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	1/25/17
			mg/Kg
Chloride	SM4500Cl-B		<16.0



February 01, 2017

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: MCKITTRICK HILLS CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/26/17 17:00.

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 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:	01/26/2017	Sampling Date:	01/25/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H700204-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: SP 1 @ 1' (H700204-02)

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	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	<0.050	0.050	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	<0.300	0.300	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	48.0	16.0	01/31/2017	ND	432	108	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	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	2900	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 85.0 % 35-147

Surrogate: 1-Chlorooctadecane 135 % 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:	01/26/2017	Sampling Date:	01/25/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H700204-03)

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	01/31/2017	ND	432	108	400	0.00	

Sample ID: SP 2 @ 1' (H700204-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: SP 3 @ SURFACE (H700204-05)

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	01/31/2017	ND	432	108	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:	01/26/2017	Sampling Date:	01/25/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 1' (H700204-06)

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	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	<0.050	0.050	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	<0.300	0.300	02/01/2017	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	48.0	16.0	01/31/2017	ND	432	108	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	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	2660	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 94.4 % 35-147
Surrogate: 1-Chlorooctadecane 137 % 28-171
Sample ID: OVERSPRAY @ SURFACE (H700204-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/31/2017	ND	432	108	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:	01/26/2017	Sampling Date:	01/25/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: NORTH SAMPLE @ SURFACE (H700204-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: EAST SAMPLE @ SURFACE (H700204-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: SOUTH SAMPLE @ SURFACE (H700204-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/31/2017	ND	432	108	400	0.00	

Sample ID: WEST SAMPLE @ SURFACE (H700204-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/31/2017	ND	432	108	400	0.00	

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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 LCSD recovery and/or RPD values.
- 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



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

1082

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #:
 Project Manager: Cliff Brunson Company: Oxy
 Address: P.O. Box 805 State: NIM Zip: 88241 Attn: Casey Summers
 City: Hobbs Address: 575-397-0397
 Phone #: 575-397-6388 Fax #: 575-397-0397 City:
 Project #: Project Owner: Oxy State: Zip:
 Project Name: MCKITTRICK HILLS CTB
 Project Location: EDDY COUNTY, NM Phone #:
 Sampler Name: Roger Hernandez Fax #:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CHECKED BY:	REMARKS:
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
11700804-													
01	SP1 @ SURFACE		1			✓				1/25/17	10:00 AM	✓	✓
02	SP1 @ 1'		1			✓				1/25/17	10:20 AM	✓	✓
03	SP2 @ SURFACE		1			✓				1/25/17	10:40 AM	✓	✓
04	SP2 @ 1'		1			✓				1/25/17	11:20 AM	✓	✓
05	SP3 @ SURFACE		1			✓				1/25/17	12:00 PM	✓	✓
06	SP3 @ 1'		1			✓				1/25/17	12:30 PM	✓	✓
07	OVERSPRAY @ SURFACE		1			✓				1/25/17	1:00 PM	✓	✓
08	NORTH SAMPLE @ SURFACE		1			✓				1/25/17	1:10 PM	✓	✓
09	EAST SAMPLE @ SURFACE		1			✓				1/25/17	1:15 PM	✓	✓
10	SOUTH SAMPLE @ SURFACE		1			✓				1/25/17	1:20 PM	✓	✓

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Relinquished By: *Roger Hernandez* Date: 1/25/17 Received By: *Casey Summers*
 Relinquished By: *Casey Summers* Date: 1/26/17 Received By: *Casey Summers*
 Delivered By: (Circle One) UPS Bus Other: *-59°C*
 Sample Condition: Intact Damaged
 Checked By: *Casey Summers* (Initials) *CS*
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 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

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	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	McKittrick Hills Central Tank Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-21010

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	14	22S	24E					Eddy County, NM

Latitude N 32.39762° Longitude W 104.46145°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	8 bbls	Volume Recovered	0 bbls
Source of Release	Faulty 3" ball valve on separator	Date and Hour of Occurrence	01/07/2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Crystal Weaver-NMOCD; Shelly Tucker-BLM		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	01/10/2017 @ 10:01 am		
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 faulty ball valve on the separator caused a leak of 8 bbls of produced water. No fluids were recovered and the valve was returned to service.					
Describe Area Affected and Cleanup Action Taken.*					
The affected area is approximately 80' x 55' on location. 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:		Attached <input type="checkbox"/>
Date: 1-19-17	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary