

# Closure Report

## Site Description

Site Name:	Federal 12 #004
Company:	Oxy Permian
Legal Description:	U/L E, Section 12, T22S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.40783° W 103.73890°

## Release Data

Date of Release:	06/06/2016
Type of Release:	Oil and produced water
Source of Release:	Over pressure caused stuffing box packing to blow out
Volume of Release:	2 bbls oil, 13 bbls produced water
Volume Recovered:	5 bbls

## Remediation Specifications

Remediation Parameters:	In the areas of SP1 and SP2, excavate to a depth of 1.5 feet to 2.5 feet or as practicable. In the area of SP3, excavate to a depth of 6 inches. Backfill the site with clean soil.	
Remediation Activities:	December 2016	
Plan Sent to OCD:	09/23/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/29/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	09/23/2016	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	10/04/2016	Email from Shelly Tucker to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 06/20/2016
Final C-141	Signed 01/11/2017
Site Diagram	June 2016
Groundwater Plot	150'-175'
TOPO Maps	June 2016
Lab Summary	06/29/2016
Lab Analysis	06/29/2016
Correspondence	Request and approval of remediation plan via email

## Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

01/20/2016

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	Federal 12 #004	Facility Type	Well

Surface Owner	BLM	Mineral Owner		API No.	30-015-26859
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	12	22S	31E					Eddy County, NM

Latitude N 32.40783° Longitude W 103.73890°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	2 bbls oil, 13 bbls produced water	Volume Recovered	5 bbls
Source of Release	Over pressure caused the stuffing box packing to blow out	Date and Hour of Occurrence	06/06/2016	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@ BBC International, Inc.	Date and Hour	06/07/2016 @ 9:15 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.\*

Over pressure caused the stuffing box packing to blow out and release 2 bbls of oil and 13 bbls of produced water. A vacuum truck recovered 5 bbls and the packing was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 40' x 25' on location around the well head. Remediation will be completed in accordance with a 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:	<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: 6-20-16 Phone: (575) 513-8289			

\* Attach Additional Sheets If Necessary

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	Federal 12 #004	Facility Type	Well

Surface Owner	BLM	Mineral Owner		API No.	30-015-26859
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	12	22S	31E					Eddy County, NM

Latitude N 32.40783° Longitude W 103.73890°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	2 bbls oil, 13 bbls produced water	Volume Recovered	5 bbls
Source of Release	Over pressure caused the stuffing box packing to blow out	Date and Hour of Occurrence	06/06/2016	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@ BBC International, Inc.	Date and Hour	06/07/2016 @ 9:15 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.\*  
Over pressure caused the stuffing box packing to blow out and release 2 bbls of oil and 13 bbls of produced water. A vacuum truck recovered 5 bbls and the packing was replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 40' x 25' on location around the well head. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 09/29/2016 and approved by Shelly Tucker of the BLM via email on 10/04/2016.

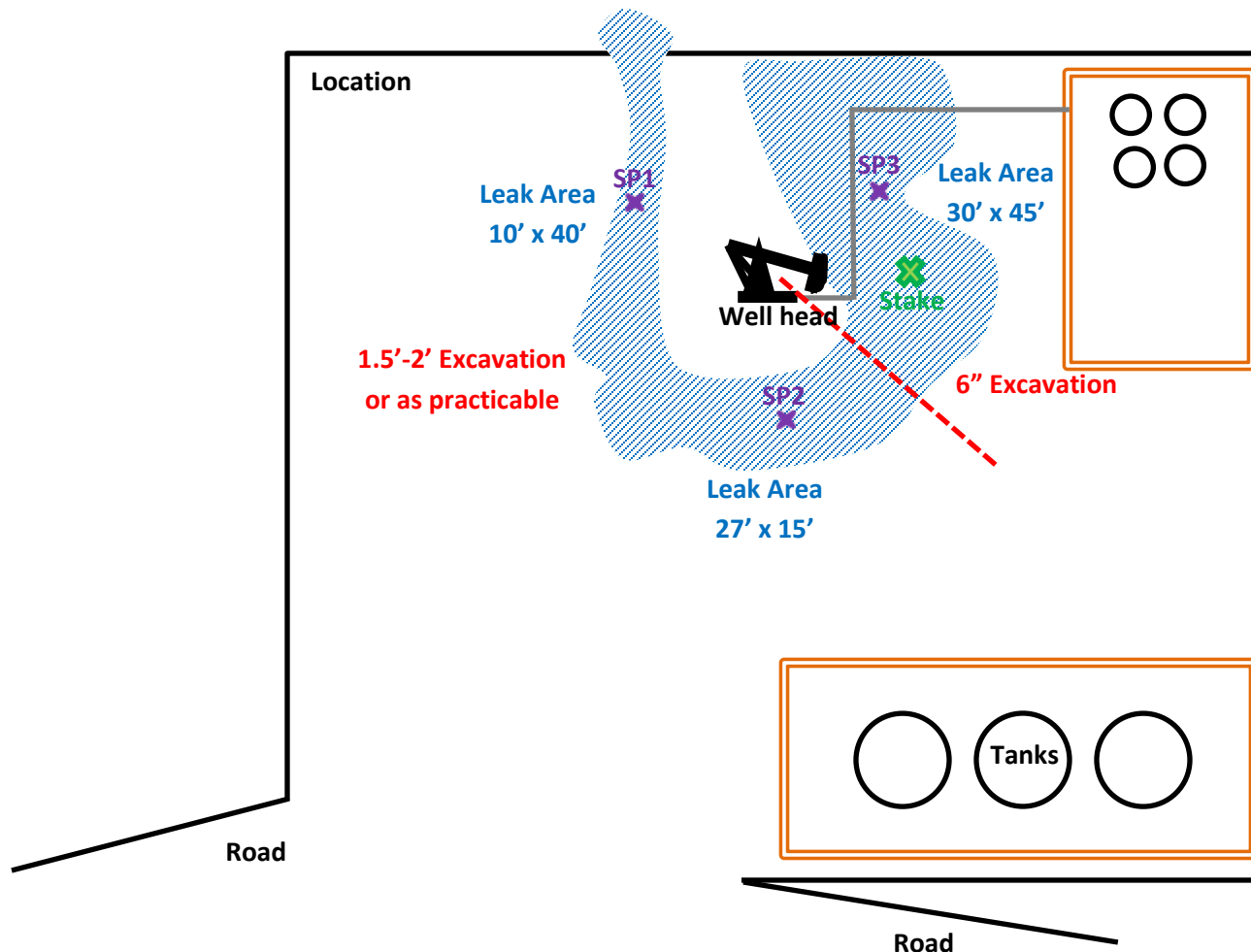
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 1-11-17	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary



Oxy  
Federal 12 #004 (6/6/16)



U/L E, Section 12, T22S, R31E

Eddy County, NM

N 32.40783° W 103.73890°

API# 30-015-26859

BBC International, Inc.

Oxy  
Federal 12 #004

Date: 06/22/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016

# Groundwater Plot

## Oxy Federal 12 #004

County  
Eddy County

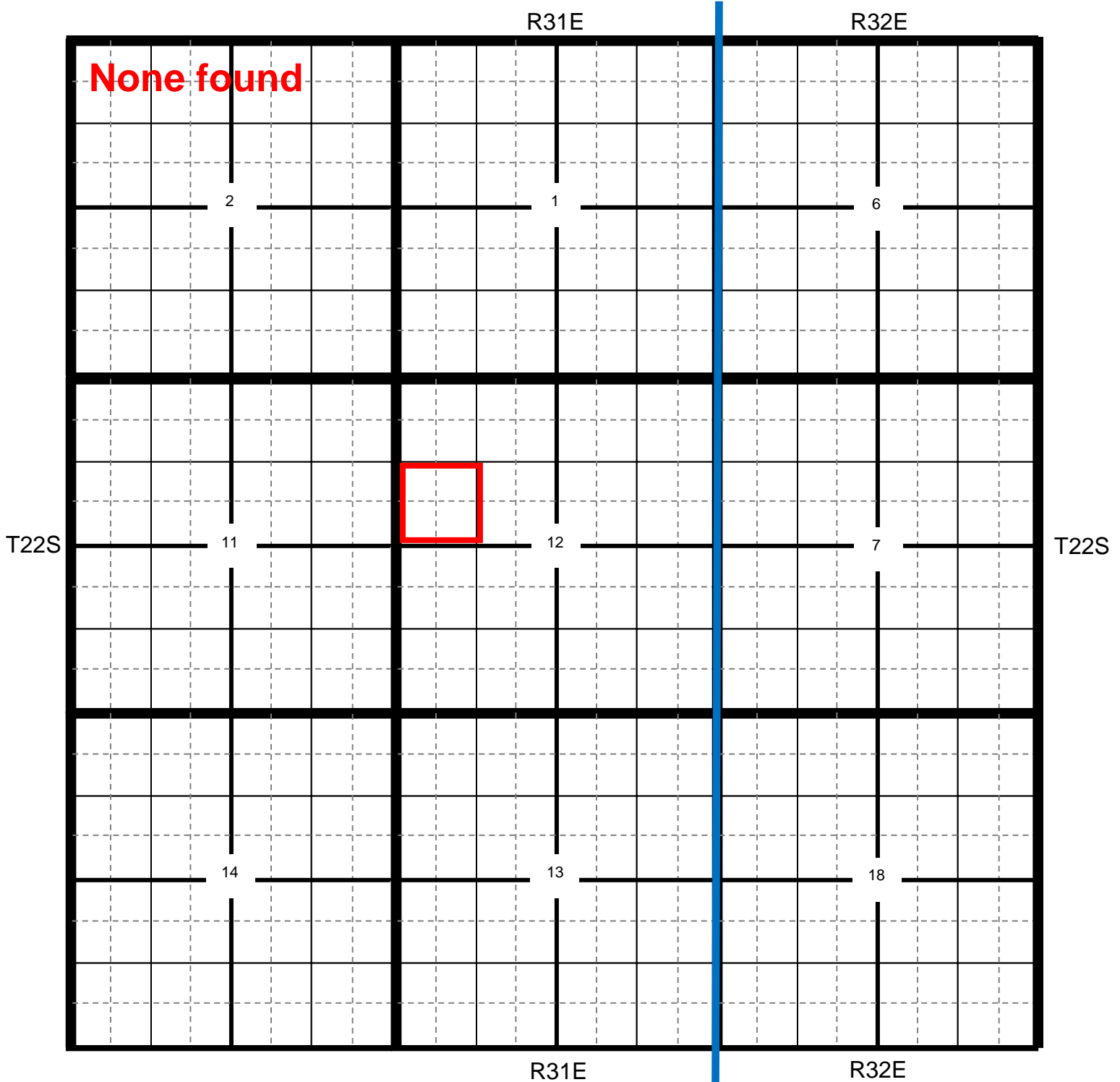
Unit Letter  
E

Section  
12

Township  
22S

Range  
31E

Trend Map 150'-175'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Federal 12 #004

County Eddy      Unit Letter E      Section 12      Township 22      Range 31

Trend Map 150'-175'

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

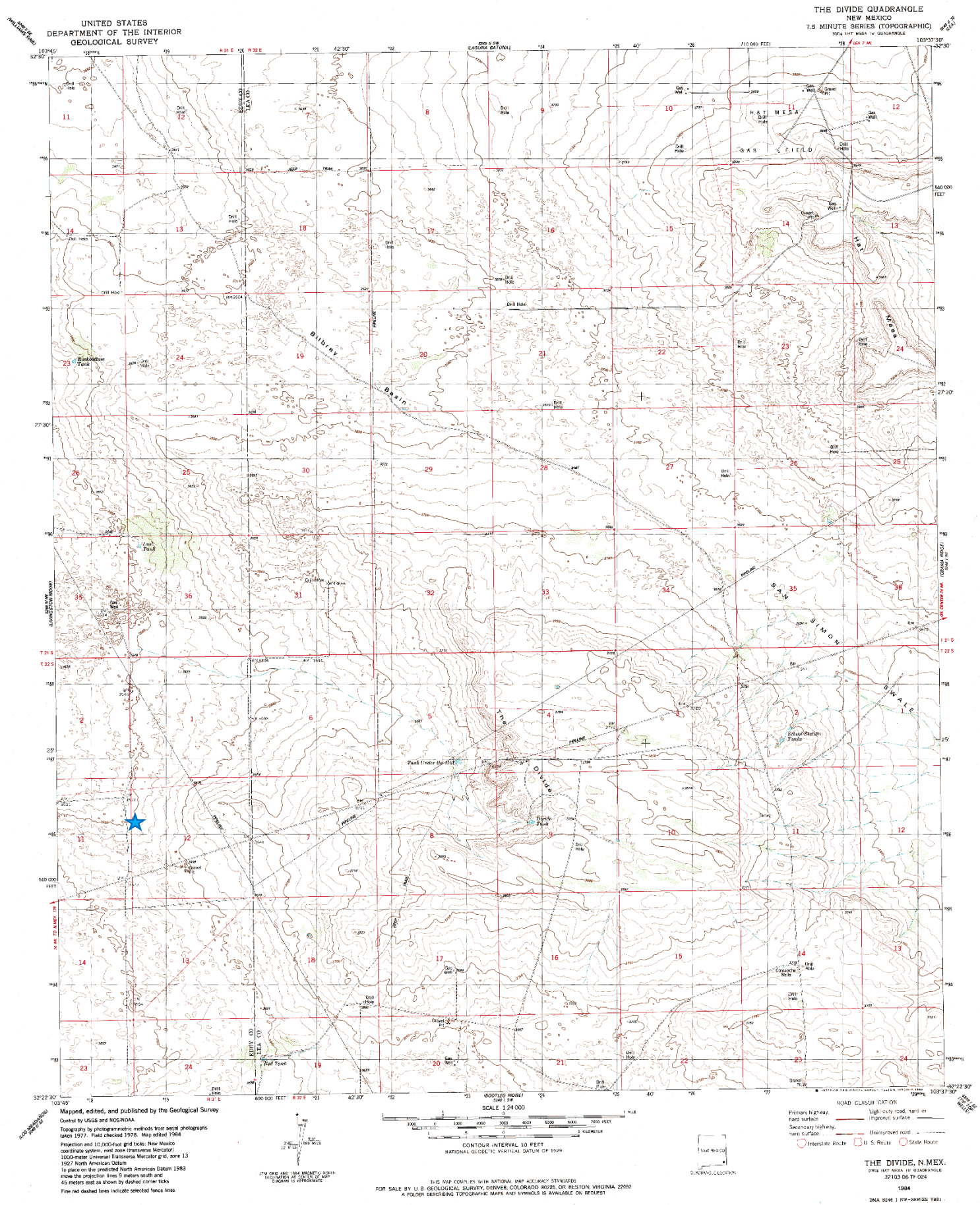
3

4



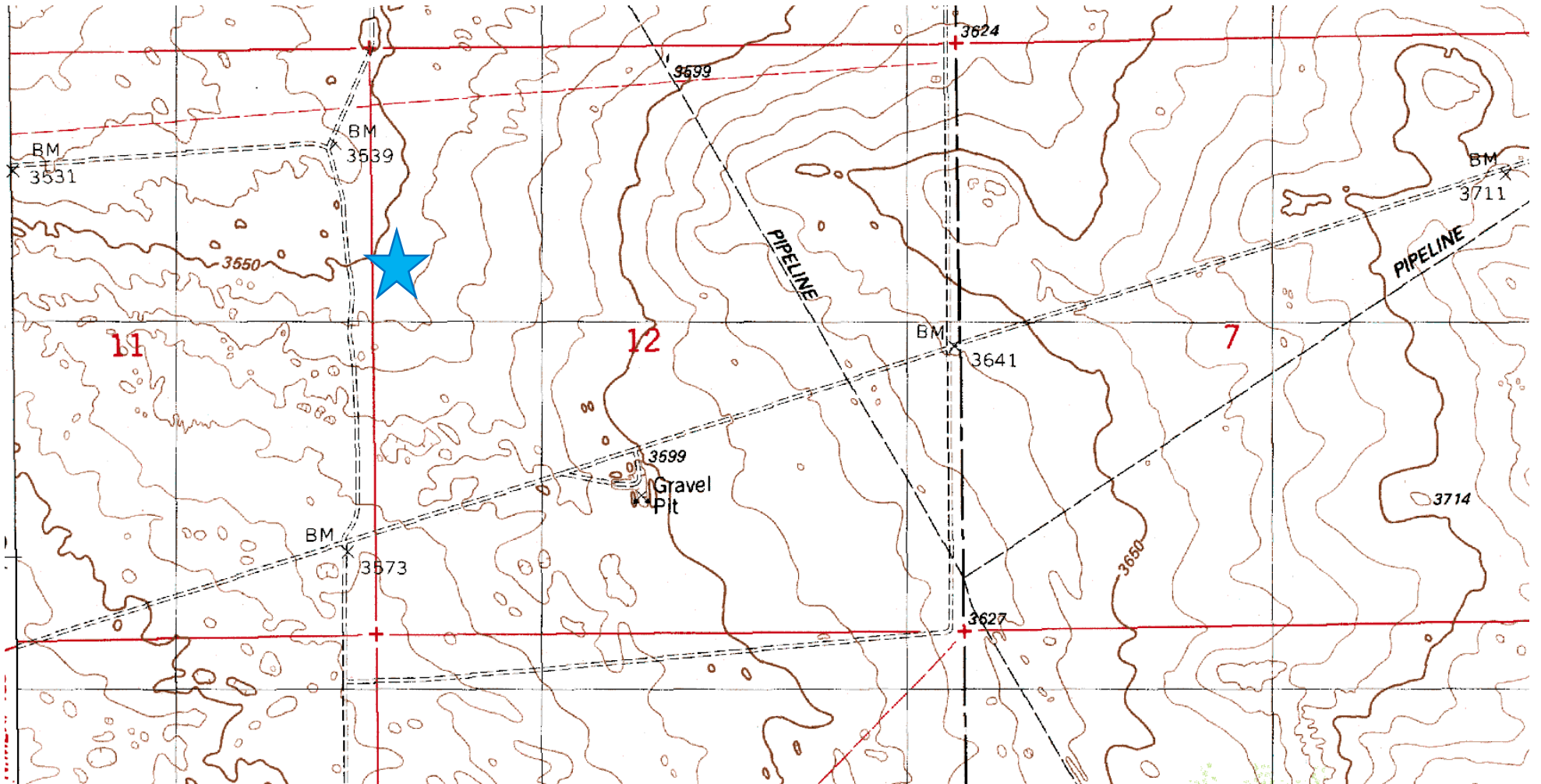
# Oxy

## Federal 12 #004



# Oxy

## Federal 12 #004





**Laboratory Analytical Results Summary  
Federal 12 #4**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'	SP1 @ 6'
Analyte	Method	Date	6/29/16	6/29/16	6/29/16	6/29/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	N/A
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	N/A
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	N/A
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	N/A
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	N/A
<b>Chloride</b>	SM4500Cl-B		<b>1800</b>	<b>1010</b>	<b>1520</b>	<b>176</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	N/A
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	N/A

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 4'	SP2 @ 6'
Analyte	Method	Date	6/29/16	6/29/16	6/29/16	6/29/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	N/A
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	N/A
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	N/A
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	N/A
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	N/A
<b>Chloride</b>	SM4500Cl-B		<b>1490</b>	<b>992</b>	<b>1600</b>	<b>256</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	N/A
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	N/A

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	6/29/16	6/29/16	6/29/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	N/A
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	N/A
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	N/A
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	N/A
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	N/A
<b>Chloride</b>	SM4500Cl-B		<b>1340</b>	<b>32</b>	<b>272</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	N/A
<b>DRO</b>	TPH 8015M		<10.0	<10.0	N/A

July 07, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 12 #4

Enclosed are the results of analyses for samples received by the laboratory on 07/01/16 11:52.

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,



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:	07/01/2016	Sampling Date:	06/29/2016
Reported:	07/07/2016	Sampling Type:	Soil
Project Name:	FEDERAL 12 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C29		

**Sample ID: SP1 @1 (H601482-01)**

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	07/06/2016	ND	2.10	105	2.00	0.646	
Toluene*	<0.050	0.050	07/06/2016	ND	2.14	107	2.00	0.755	
Ethylbenzene*	<0.050	0.050	07/06/2016	ND	2.06	103	2.00	0.504	
Total Xylenes*	<0.150	0.150	07/06/2016	ND	6.18	103	6.00	0.518	
Total BTEX	<0.300	0.300	07/06/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1800</b>	16.0	07/06/2016	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	07/01/2016	ND	211	105	200	1.85	
DRO >C10-C28	<10.0	10.0	07/01/2016	ND	196	98.0	200	1.48	

*Surrogate: 1-Chlorooctane 88.6 % 35-147*
*Surrogate: 1-Chlorooctadecane 106 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

PLEASE 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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	07/01/2016	Sampling Date:	06/29/2016
Reported:	07/07/2016	Sampling Type:	Soil
Project Name:	FEDERAL 12 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C29		

**Sample ID: SP1 @ 2 (H601482-02)**

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	07/06/2016	ND	2.10	105	2.00	0.646		
Toluene*	<0.050	0.050	07/06/2016	ND	2.14	107	2.00	0.755		
Ethylbenzene*	<0.050	0.050	07/06/2016	ND	2.06	103	2.00	0.504		
Total Xylenes*	<0.150	0.150	07/06/2016	ND	6.18	103	6.00	0.518		
Total BTEX	<0.300	0.300	07/06/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	07/06/2016	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	07/01/2016	ND	211	105	200	1.85		
DRO >C10-C28	<10.0	10.0	07/01/2016	ND	196	98.0	200	1.48		

Surrogate: 1-Chlorooctane 83.0 % 35-147

Surrogate: 1-Chlorooctadecane 90.6 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	07/01/2016	Sampling Date:	06/29/2016
Reported:	07/07/2016	Sampling Type:	Soil
Project Name:	FEDERAL 12 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C29		

**Sample ID: SP1 @ 4 (H601482-03)**

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	07/06/2016	ND	2.10	105	2.00	0.646	
Toluene*	<0.050	0.050	07/06/2016	ND	2.14	107	2.00	0.755	
Ethylbenzene*	<0.050	0.050	07/06/2016	ND	2.06	103	2.00	0.504	
Total Xylenes*	<0.150	0.150	07/06/2016	ND	6.18	103	6.00	0.518	
Total BTEX	<0.300	0.300	07/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1520</b>	16.0	07/06/2016	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	07/01/2016	ND	211	105	200	1.85	
DRO >C10-C28	<10.0	10.0	07/01/2016	ND	196	98.0	200	1.48	

Surrogate: 1-Chlorooctane 80.5 % 35-147

Surrogate: 1-Chlorooctadecane 91.5 % 28-171

**Sample ID: SP1 @ 6 (H601482-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	07/06/2016	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:	07/01/2016	Sampling Date:	06/29/2016
Reported:	07/07/2016	Sampling Type:	Soil
Project Name:	FEDERAL 12 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C29		

**Sample ID: SP2 @ 1 (H601482-05)**

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	07/06/2016	ND	2.10	105	2.00	0.646		
Toluene*	<0.050	0.050	07/06/2016	ND	2.14	107	2.00	0.755		
Ethylbenzene*	<0.050	0.050	07/06/2016	ND	2.06	103	2.00	0.504		
Total Xylenes*	<0.150	0.150	07/06/2016	ND	6.18	103	6.00	0.518		
Total BTEX	<0.300	0.300	07/06/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1490</b>	16.0	07/06/2016	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	07/01/2016	ND	211	105	200	1.85		
DRO >C10-C28	<10.0	10.0	07/01/2016	ND	196	98.0	200	1.48		

Surrogate: 1-Chlorooctane 90.7 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 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:	07/01/2016	Sampling Date:	06/29/2016
Reported:	07/07/2016	Sampling Type:	Soil
Project Name:	FEDERAL 12 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C29		

**Sample ID: SP2 @ 2 (H601482-06)**

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	07/06/2016	ND	2.10	105	2.00	0.646		
Toluene*	<0.050	0.050	07/06/2016	ND	2.14	107	2.00	0.755		
Ethylbenzene*	<0.050	0.050	07/06/2016	ND	2.06	103	2.00	0.504		
Total Xylenes*	<0.150	0.150	07/06/2016	ND	6.18	103	6.00	0.518		
Total BTEX	<0.300	0.300	07/06/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	07/06/2016	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	07/01/2016	ND	211	105	200	1.85		
DRO >C10-C28	<10.0	10.0	07/01/2016	ND	196	98.0	200	1.48		

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 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:	07/01/2016	Sampling Date:	06/29/2016
Reported:	07/07/2016	Sampling Type:	Soil
Project Name:	FEDERAL 12 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C29		

**Sample ID: SP2 @ 4 (H601482-07)**

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	07/06/2016	ND	2.10	105	2.00	0.646		
Toluene*	<0.050	0.050	07/06/2016	ND	2.14	107	2.00	0.755		
Ethylbenzene*	<0.050	0.050	07/06/2016	ND	2.06	103	2.00	0.504		
Total Xylenes*	<0.150	0.150	07/06/2016	ND	6.18	103	6.00	0.518		
Total BTEX	<0.300	0.300	07/06/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1600</b>	16.0	07/06/2016	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	07/01/2016	ND	211	105	200	1.85		
DRO >C10-C28	<10.0	10.0	07/01/2016	ND	196	98.0	200	1.48		

Surrogate: 1-Chlorooctane 93.8 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

**Sample ID: SP2 @ 6 (H601482-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>256</b>	16.0	07/06/2016	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:	07/01/2016	Sampling Date:	06/29/2016
Reported:	07/07/2016	Sampling Type:	Soil
Project Name:	FEDERAL 12 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C29		

**Sample ID: SP3 @ 1 (H601482-09)**

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	07/06/2016	ND	2.10	105	2.00	0.646		
Toluene*	<0.050	0.050	07/06/2016	ND	2.14	107	2.00	0.755		
Ethylbenzene*	<0.050	0.050	07/06/2016	ND	2.06	103	2.00	0.504		
Total Xylenes*	<0.150	0.150	07/06/2016	ND	6.18	103	6.00	0.518		
Total BTEX	<0.300	0.300	07/06/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1340</b>	16.0	07/06/2016	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	07/02/2016	ND	211	105	200	1.85		
DRO >C10-C28	<10.0	10.0	07/02/2016	ND	196	98.0	200	1.48		

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 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:	07/01/2016	Sampling Date:	06/29/2016
Reported:	07/07/2016	Sampling Type:	Soil
Project Name:	FEDERAL 12 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	C29		

**Sample ID: SP3 @ 2 (H601482-10)**

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	07/06/2016	ND	2.10	105	2.00	0.646		
Toluene*	<0.050	0.050	07/06/2016	ND	2.14	107	2.00	0.755		
Ethylbenzene*	<0.050	0.050	07/06/2016	ND	2.06	103	2.00	0.504		
Total Xylenes*	<0.150	0.150	07/06/2016	ND	6.18	103	6.00	0.518		
Total BTEX	<0.300	0.300	07/06/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	07/06/2016	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	07/02/2016	ND	211	105	200	1.85		
DRO >C10-C28	<10.0	10.0	07/02/2016	ND	196	98.0	200	1.48		

Surrogate: 1-Chlorooctane 91.6 % 35-147

Surrogate: 1-Chlorooctadecane 99.9 % 28-171

**Sample ID: SP3 @ 3 (H601482-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>272</b>	16.0	07/06/2016	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



---

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**

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

**BILL TO**

**ANALYSIS REQUEST**

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

**MATRIX**

**PRESERV**

**SAMPLING**

Lab I.D. **HECK82**

Sample I.D.

**SP1E1**

**SP2E1**

**SP3E1**

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

**CI-  
TPH  
BTEX**

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Relinquished By:

Received By:

Phone Result:  Yes  No  Add'l Phone #:  
Fax Result:  Yes  No  Add'l Fax #:

Relinquished By:

Date: 7-1-16

Time: 3:30pm

Time: 11:11a

Time: 11:52a

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: **2.8.c**

Time: 11:11a

Time: 11:52a

Time: 11:52a

Time: 11:52a

Sample Condition:  Intact  Cool  Yes  No

CHECKED BY: **Abene** (Initials) **K#75**

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





**CARDINAL LABORATORIES**

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

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

**BILL TO**

**ANALYSIS REQUEST**

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

*H00148a*

*SP303*

(G)RAB OR (C)OMP.	
# CONTAINERS	<i>61</i>
GROUNDWATER	
WASTEWATER	
SOIL	<i>X</i>
OIL	
SLUDGE	
OTHER :	
ACID/BASE:	
ICE / COOL	<i>X</i>
OTHER :	

DATE TIME

*6-29 150 X*

*CI -*

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Relinquished By:

Received By:

Date: *6-1-16*

Time: *3:30pm*

Date: *6-1-16*

Time: *11:52*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

- *28c*

Sample Condition

Cool Intact

Yes  No

CHECKED BY:

(Initials)

*#75K*

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

**From:** [Bratcher, Mike, EMNRD](#)  
**To:** [Cliff Brunson](#)  
**Cc:** [Patterson, Heather, EMNRD](#); [Casey Summers](#); [Jennifer\\_Duarte@oxy.com](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)  
**Subject:** RE: OXY - Federal 12 #004 - Remediation Plan  
**Date:** Thursday, September 29, 2016 7:19:59 AM

---

RE: OXY USA \* Federal 12-4 \* **2RP-3918** \* DOR: 6/6/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled. Federal sites will require like approval from BLM.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

**Mike Bratcher**  
**NMOCD District 2**  
**811 S. First Street**  
**Artesia, NM 88210**  
**O: 575-748-1283 X108**  
**C: 575-626-0857**  
**F: 575-748-9720**

---

**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Friday, September 23, 2016 11:13 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Patterson, Heather, EMNRD; Casey Summers; Jennifer\_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY - Federal 12 #004 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Federal 12 #004 release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)



\*\*\*\*\*

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\*\*\*\*\*



**From:** [Tucker, Shelly](#)  
**To:** [Bratcher, Mike, EMNRD](#)  
**Cc:** [Kathy Purvis](#); [Cliff Brunson](#); [Patterson, Heather, EMNRD](#); [Casey Summers](#); [Jennifer Duarte@oxy.com](#); [Ken Swinney](#); [Jennifer Gilkey](#)  
**Subject:** Re: OXY - Federal 12 #004 - Remediation Plan  
**Date:** Tuesday, October 4, 2016 10:08:38 AM

---

Cliff,

BLM approves the work plan as written.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

**Shelly J Tucker**

Environmental Protection Specialist  
Bureau of Land Management

620 E. Greene St  
Carlsbad, NM 88220

575.234.5905 - Direct  
575.361.0084 - Cellular

[stucker@blm.gov](mailto:stucker@blm.gov)



The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Wed, Sep 28, 2016 at 4:55 PM, Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)> wrote:

Thanks Kathy. I will get it processed tomorrow.

**Mike Bratcher**

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

---

**From:** Kathy Purvis [mailto:[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)]

**Sent:** Wednesday, September 28, 2016 4:36 PM

**To:** Bratcher, Mike, EMNRD; 'Cliff Brunson'

**Cc:** Patterson, Heather, EMNRD; 'Casey Summers'; [Jennifer\\_Duarte@oxy.com](mailto:Jennifer_Duarte@oxy.com); 'Ken Swinney'; 'Jennifer Gilkey'; 'Tucker, Shelly'

**Subject:** RE: OXY - Federal 12 #004 - Remediation Plan

It is attached. I may have just missed it. My apologies. I will go back and look.

**Kathy Purvis**

BBC International, Inc.

1324 W. Marland Blvd.

Hobbs, NM 88240

Business: (575) 397-6388

Cell: (575) 441-8619

[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)

---

**From:** Bratcher, Mike, EMNRD [<mailto:mike.bratcher@state.nm.us>]  
**Sent:** Wednesday, September 28, 2016 4:28 PM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>  
**Cc:** Patterson, Heather, EMNRD <[Heather.Patterson@state.nm.us](mailto:Heather.Patterson@state.nm.us)>; Casey Summers <[Casey\\_Summers@oxy.com](mailto:Casey_Summers@oxy.com)>; [Jennifer\\_Duarte@oxy.com](mailto:Jennifer_Duarte@oxy.com); Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>; Tucker, Shelly <[stucker@blm.gov](mailto:stucker@blm.gov)>  
**Subject:** RE: OXY - Federal 12 #004 - Remediation Plan

Cliff,

I don't have a C-141 on this one.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

---

**From:** Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Friday, September 23, 2016 11:13 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Patterson, Heather, EMNRD; Casey Summers; [Jennifer\\_Duarte@oxy.com](mailto:Jennifer_Duarte@oxy.com); Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY - Federal 12 #004 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Federal 12 #004 release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

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