

# Closure Report

## Site Description

Site Name:	Tigger 9 State #7
Company:	Oxy Permian Ltd.
Legal Description:	U/L J, Section 9, T17S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.84584° W 104.07793°

## Release Data

Date of Release:	02/13/2014
Type of Release:	Oil and produced water
Source of Release:	4" poly production flow line
Volume of Release:	1 bbl oil, 7 bbls produced water
Volume Recovered:	0.5 bbl oil, 3 bbls produced water

## Remediation Specifications

Remediation Parameters:	Excavate to a depth of 1 foot across the entire leak site. Then, backfill the site with clean soil.
Remediation Activities:	09/26/2014 to 10/10/2014

Plan Sent to OCD:	06/26/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	07/01/2014	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Signed 02/27/2014
Final C-141	Signed 10/23/2014
Site Diagram	April 2014
Groundwater Plot	75'
TOPO Maps	April 2014
Lab Summary	04/07/2014
Lab Analysis	04/07/2014
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.

10/27/2014

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Tigger 9 State #7	Facility Type	Well Location
Surface Owner	State	Mineral Owner	
		API No.	30-015-40938

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	9	17S	29E	2253	South	1706	East	Eddy County, NM

Latitude N 32.84811° Longitude W 104.07686°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	1 bbl oil, 7 bbls produced water	Volume Recovered	.5 bbl oil, 3 bbls produced water
Source of Release	4" Poly production flow line	Date and Hour of Occurrence	02/13/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD		
By Whom?	Christopher Jones	Date and Hour	02/18/2014 @ 10:24 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 leak in a 4" poly production flow line caused 1 bbl of oil and 7 bbls of produced water to leak onto the ground. Free-standing fluids including 0.5 bbl of oil and 3 bbls of produced water were recovered via vacuum truck and the line was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 30' x 900' on and off location. The leak is located approximately 1,000 feet North of the well head. Remediation will be completed in accordance with a plan approved by 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: Christopher Jones	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2/27/14	Phone: (575) 628-4121		

\* Attach Additional Sheets If Necessary

District I  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
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Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Tigger 9 State #7	Facility Type	Well Location
Surface Owner	State	Mineral Owner	
		API No.	30-015-40938

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	9	17S	29E	2253	South	1706	East	Eddy County, NM

Latitude N 32.84584° Longitude W 104.07793°

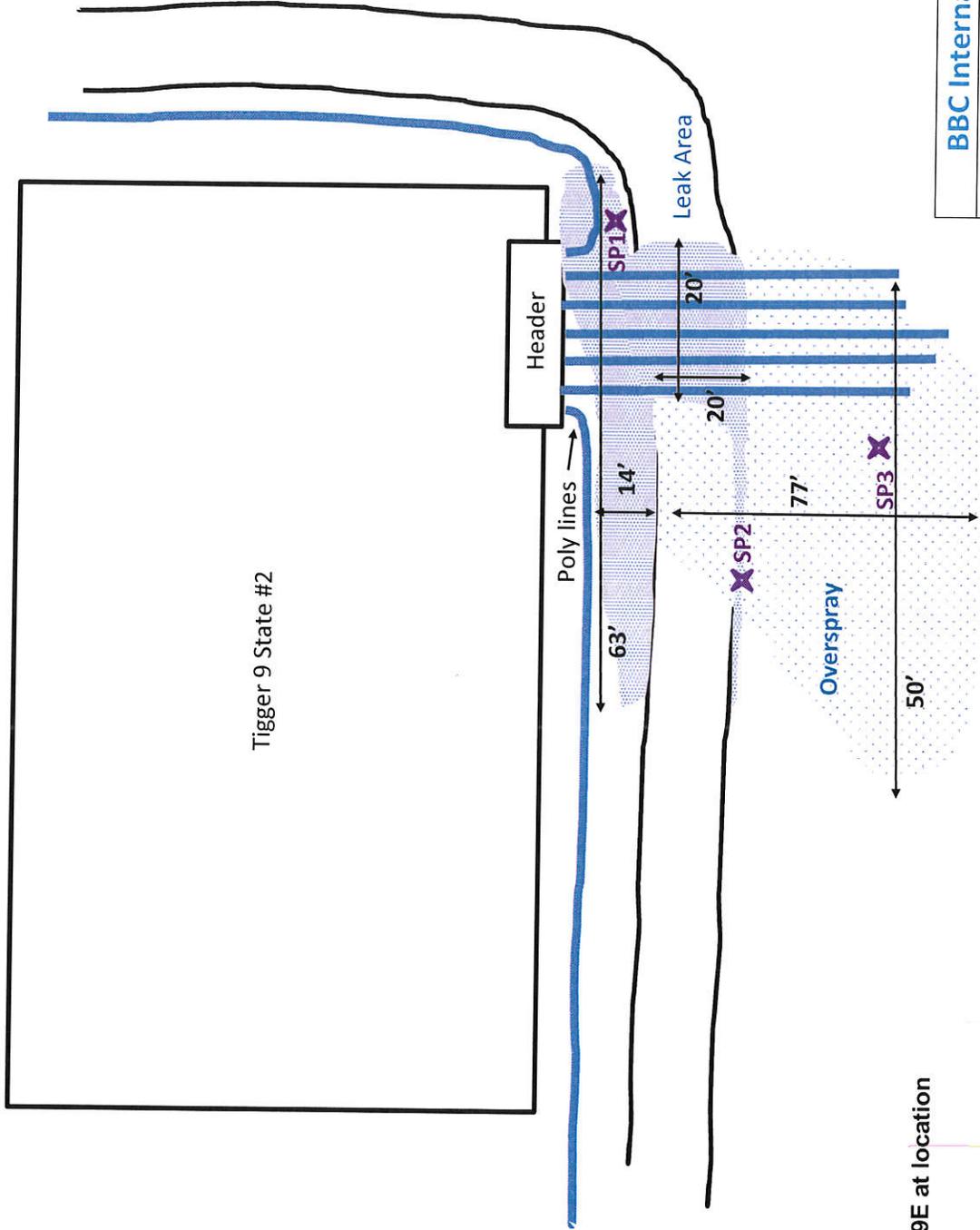
**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	1 bbl oil, 7 bbls produced water	Volume Recovered	.5 bbl oil, 3 bbls produced water
Source of Release	4" Poly production flow line	Date and Hour of Occurrence	02/13/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD		
By Whom?	Christopher Jones	Date and Hour	02/18/2014 @ 10:24 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 leak in a 4" poly production flow line caused 1 bbl of oil and 7 bbls of produced water to leak onto the ground. Free-standing fluids including 0.5 bbl of oil and 3 bbls of produced water were recovered via vacuum truck and the line was repaired.					
Describe Area Affected and Cleanup Action Taken.* The affected area is approximately 30' x 90' on and off location. The leak is located approximately 1,000 feet North of the well head. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 07/01/2014.					
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:	Christopher Jones	Approved by District Supervisor:			
Title:	HES Specialist	Approval Date:	Expiration Date:		
E-mail Address:	Christopher Jones@oxy.com	Conditions of Approval:			Attached <input type="checkbox"/>
Date:	10/23/14	Phone:	(575) 628-4121		

\* Attach Additional Sheets If Necessary



Oxy  
Tigger 9 State #7



U/L J, Section 9, T17S, R29E at location

Eddy County, NM

GPS at stake: N 32.85043° W 104.07645°

BBC International, Inc.

Oxy

Tigger 9 State #7

Date: 04/9/2014

DRWG by: J. Gilkey

NOT TO SCALE

File: Oxy 2014



# Groundwater Plot

## Oxy Tigger 9 State #7

County  
Eddy

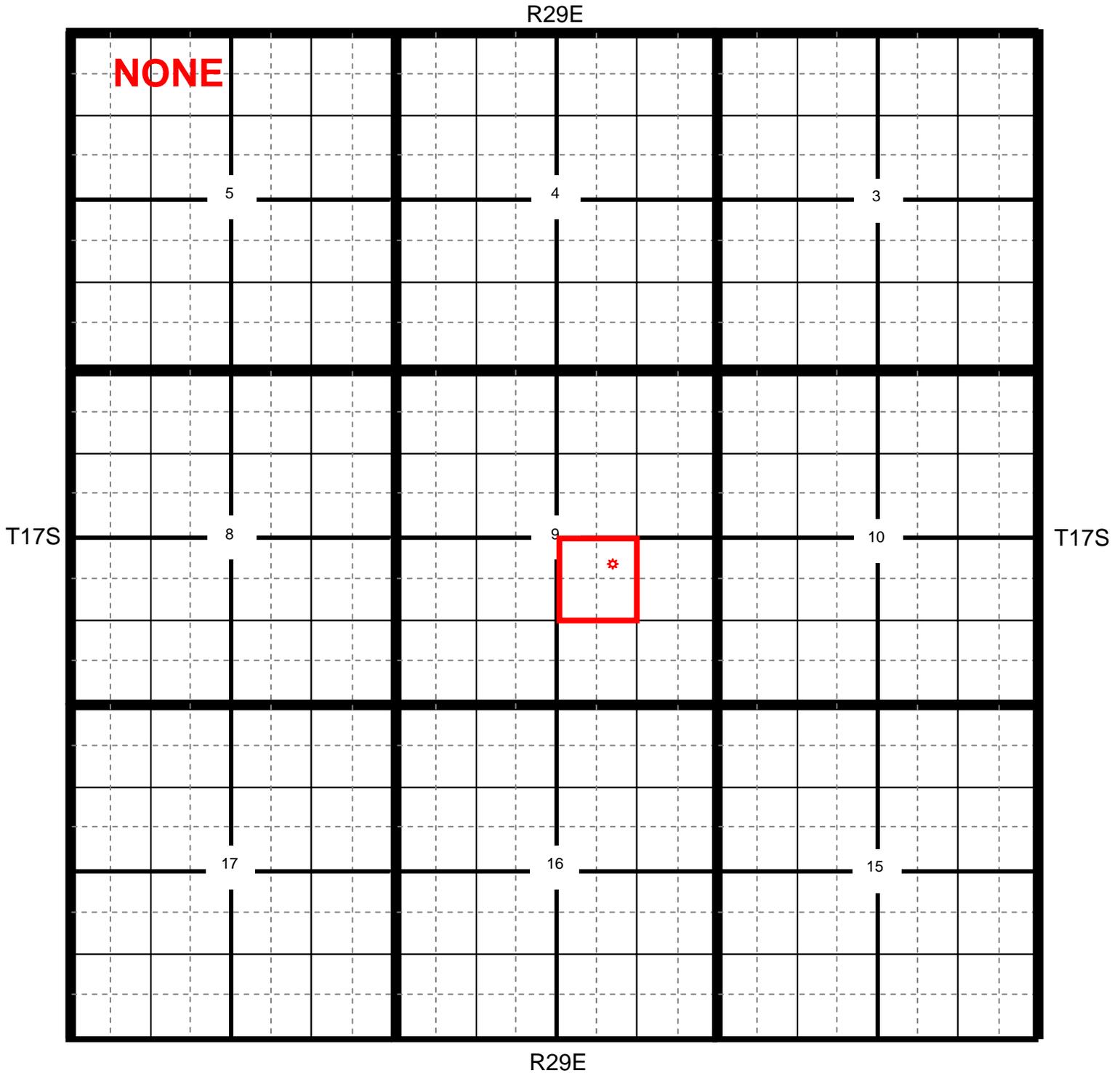
Unit Letter  
J

Section  
7

Township  
17S

Range  
29E

Trend Map 75'



⚙ Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Tigger 9 State #7

County Eddy      Unit Letter J      Section 9      Township 17S      Range 29E

Trend Map 75'

1

2

NW/NW <b>NONE</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

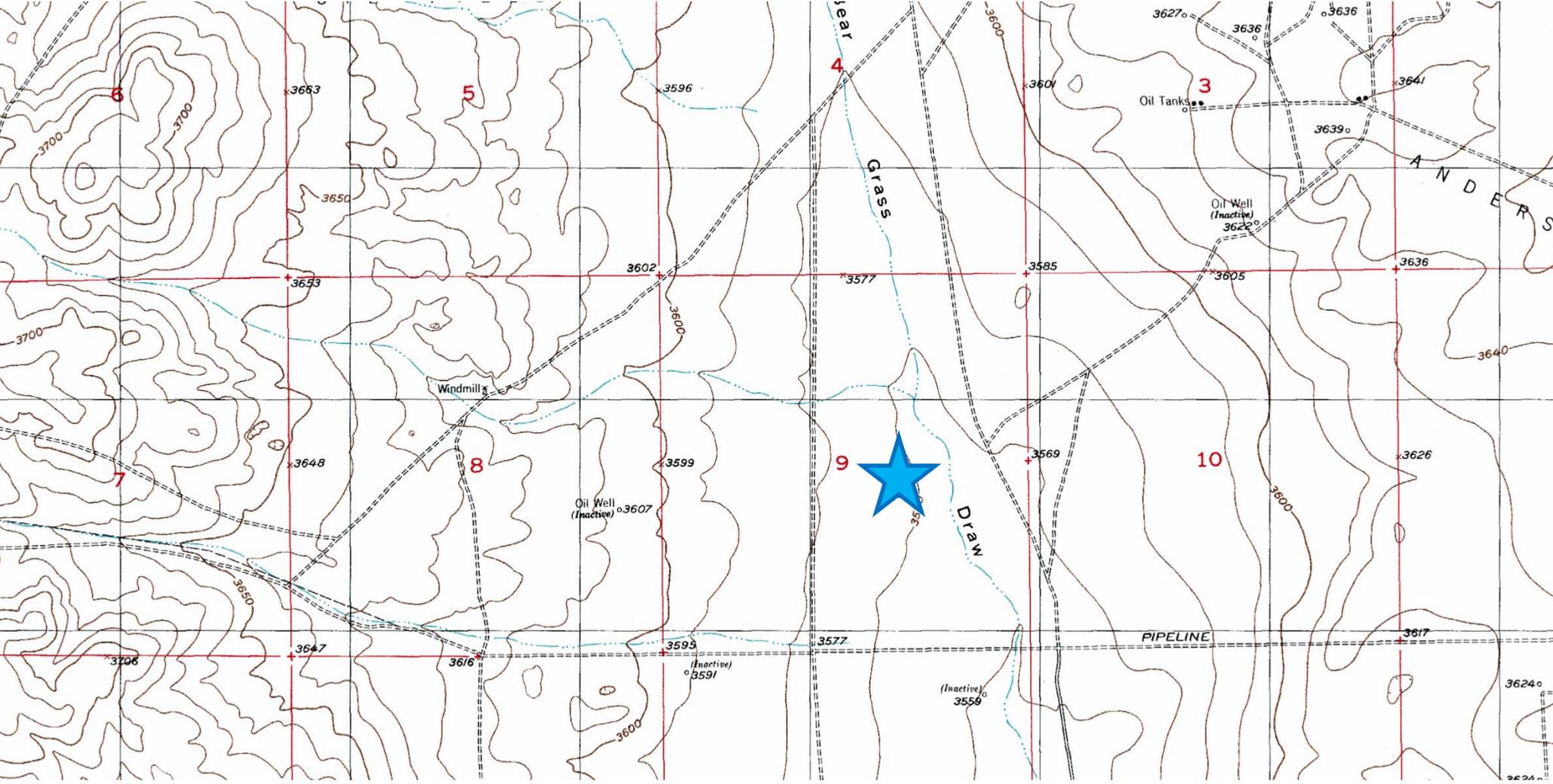
3

4



# Oxy

## Tigger 9 State #7



**Laboratory Analytical Results Summary  
Tigger 9 State #7**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	4/7/14	4/7/14	4/7/14	4/7/14	4/7/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.250	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.250	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.250	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>1.19</b>	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.150	<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>7900</b>	<b>704</b>	<b>560</b>	<b>320</b>	<b>288</b>
<b>GRO</b>	TPH 8015M		<100	<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>9220</b>	<b>256</b>	<b>249</b>	<b>20.2</b>	<b>71.0</b>

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 3'
Analyte	Method	Date	4/7/14	4/7/14	4/7/14
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.200	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>2.87</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>22.7</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>25.6</b>	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>18200</b>	<b>160</b>	<b>144</b>
<b>GRO</b>	TPH 8015M		<b>206</b>	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>32700</b>	<b>75.1</b>	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	4/7/14	4/7/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>864</b>	<b>32.0</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>419</b>	<10.0



April 15, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TIGGER 9 STATE #7

Enclosed are the results of analyses for samples received by the laboratory on 04/08/14 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 cursive script 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:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/15/2014	Sampling Type:	Soil
Project Name:	TIGGER 9 STATE #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ SURFACE (H401065-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.250	0.250	04/14/2014	ND	2.47	123	2.00	5.14	
Toluene*	<0.250	0.250	04/14/2014	ND	2.30	115	2.00	3.80	
Ethylbenzene*	<0.250	0.250	04/14/2014	ND	2.27	114	2.00	2.81	
<b>Total Xylenes*</b>	<b>1.19</b>	0.750	04/14/2014	ND	6.51	108	6.00	2.24	
Total BTEX	<1.50	1.50	04/14/2014	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 125 % 89.4-126*

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>7900</b>	16.0	04/14/2014	ND	400	100	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	04/13/2014	ND	200	99.8	200	4.12		
<b>DRO &gt;C10-C28</b>	<b>9220</b>	100	04/13/2014	ND	204	102	200	13.5		

*Surrogate: 1-Chlorooctane 165 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 267 % 63.6-154*

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:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/15/2014	Sampling Type:	Soil
Project Name:	TIGGER 9 STATE #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 1' (H401065-02)**

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	04/14/2014	ND	2.64	132	2.00	2.75	
Toluene*	<0.050	0.050	04/14/2014	ND	2.48	124	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/14/2014	ND	2.46	123	2.00	2.10	
Total Xylenes*	<0.150	0.150	04/14/2014	ND	7.04	117	6.00	2.12	
Total BTEX	<0.300	0.300	04/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

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>704</b>	16.0	04/14/2014	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	04/13/2014	ND	200	99.8	200	4.12	
<b>DRO &gt;C10-C28</b>	<b>256</b>	10.0	04/13/2014	ND	204	102	200	13.5	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

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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:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/15/2014	Sampling Type:	Soil
Project Name:	TIGGER 9 STATE #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 2' (H401065-03)**

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	04/14/2014	ND	2.64	132	2.00	2.75	
Toluene*	<0.050	0.050	04/14/2014	ND	2.48	124	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/14/2014	ND	2.46	123	2.00	2.10	
Total Xylenes*	<0.150	0.150	04/14/2014	ND	7.04	117	6.00	2.12	
Total BTEX	<0.300	0.300	04/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

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>560</b>	16.0	04/14/2014	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	04/13/2014	ND	200	99.8	200	4.12	
<b>DRO &gt;C10-C28</b>	<b>249</b>	10.0	04/13/2014	ND	204	102	200	13.5	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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: 04/08/2014  
 Reported: 04/15/2014  
 Project Name: TIGGER 9 STATE #7  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 04/07/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Celey D. Keene

**Sample ID: SP 1 @ 4' (H401065-04)**

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	04/14/2014	ND	2.64	132	2.00	2.75	
Toluene*	<0.050	0.050	04/14/2014	ND	2.48	124	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/14/2014	ND	2.46	123	2.00	2.10	
Total Xylenes*	<0.150	0.150	04/14/2014	ND	7.04	117	6.00	2.12	
Total BTEX	<0.300	0.300	04/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

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>320</b>	16.0	04/14/2014	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	04/13/2014	ND	200	99.8	200	4.12	
<b>DRO &gt;C10-C28</b>	<b>20.2</b>	10.0	04/13/2014	ND	204	102	200	13.5	

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.5 % 63.6-154

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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:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/15/2014	Sampling Type:	Soil
Project Name:	TIGGER 9 STATE #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 5' (H401065-05)**

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	04/14/2014	ND	2.64	132	2.00	2.75	
Toluene*	<0.050	0.050	04/14/2014	ND	2.48	124	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/14/2014	ND	2.46	123	2.00	2.10	
Total Xylenes*	<0.150	0.150	04/14/2014	ND	7.04	117	6.00	2.12	
Total BTEX	<0.300	0.300	04/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 89.4-126

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>288</b>	16.0	04/14/2014	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	04/13/2014	ND	200	99.8	200	4.12	
<b>DRO &gt;C10-C28</b>	<b>71.0</b>	10.0	04/13/2014	ND	204	102	200	13.5	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/15/2014	Sampling Type:	Soil
Project Name:	TIGGER 9 STATE #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ SURFACE (H401065-06)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/14/2014	ND	2.64	132	2.00	2.75	
Toluene*	<0.200	0.200	04/14/2014	ND	2.48	124	2.00	2.48	
<b>Ethylbenzene*</b>	<b>2.87</b>	0.200	04/14/2014	ND	2.46	123	2.00	2.10	
<b>Total Xylenes*</b>	<b>22.7</b>	0.600	04/14/2014	ND	7.04	117	6.00	2.12	
<b>Total BTEX</b>	<b>25.6</b>	1.20	04/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>18200</b>	16.0	04/14/2014	ND	400	100	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
<b>GRO C6-C10</b>	<b>206</b>	100	04/13/2014	ND	200	99.8	200	4.12	
<b>DRO &gt;C10-C28</b>	<b>32700</b>	100	04/13/2014	ND	204	102	200	13.5	

Surrogate: 1-Chlorooctane 207 % 65.2-140

Surrogate: 1-Chlorooctadecane 1110 % 63.6-154

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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:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/15/2014	Sampling Type:	Soil
Project Name:	TIGGER 9 STATE #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 1' (H401065-07)**

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	04/14/2014	ND	2.64	132	2.00	2.75	
Toluene*	<0.050	0.050	04/14/2014	ND	2.48	124	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/14/2014	ND	2.46	123	2.00	2.10	
Total Xylenes*	<0.150	0.150	04/14/2014	ND	7.04	117	6.00	2.12	
Total BTEX	<0.300	0.300	04/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

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>160</b>	16.0	04/14/2014	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	04/13/2014	ND	200	99.8	200	4.12	
<b>DRO &gt;C10-C28</b>	<b>75.1</b>	10.0	04/13/2014	ND	204	102	200	13.5	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/15/2014	Sampling Type:	Soil
Project Name:	TIGGER 9 STATE #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 3' (H401065-08)**

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	04/14/2014	ND	2.64	132	2.00	2.75	
Toluene*	<0.050	0.050	04/14/2014	ND	2.48	124	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/14/2014	ND	2.46	123	2.00	2.10	
Total Xylenes*	<0.150	0.150	04/14/2014	ND	7.04	117	6.00	2.12	
Total BTEX	<0.300	0.300	04/14/2014	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126*

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>144</b>	16.0	04/14/2014	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	04/13/2014	ND	200	99.8	200	4.12	
DRO >C10-C28	<10.0	10.0	04/13/2014	ND	204	102	200	13.5	

*Surrogate: 1-Chlorooctane 113 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 101 % 63.6-154*

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

Received:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/15/2014	Sampling Type:	Soil
Project Name:	TIGGER 9 STATE #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 3 @ SURFACE (H401065-09)**

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	04/14/2014	ND	2.64	132	2.00	2.75	
Toluene*	<0.050	0.050	04/14/2014	ND	2.48	124	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/14/2014	ND	2.46	123	2.00	2.10	
Total Xylenes*	<0.150	0.150	04/14/2014	ND	7.04	117	6.00	2.12	
Total BTEX	<0.300	0.300	04/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

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>864</b>	16.0	04/14/2014	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	04/13/2014	ND	200	99.8	200	4.12	
<b>DRO &gt;C10-C28</b>	<b>419</b>	10.0	04/13/2014	ND	204	102	200	13.5	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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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:	04/08/2014	Sampling Date:	04/07/2014
Reported:	04/15/2014	Sampling Type:	Soil
Project Name:	TIGGER 9 STATE #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 3 @ 1' (H401065-10)**

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	04/14/2014	ND	2.64	132	2.00	2.75	
Toluene*	<0.050	0.050	04/14/2014	ND	2.48	124	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/14/2014	ND	2.46	123	2.00	2.10	
Total Xylenes*	<0.150	0.150	04/14/2014	ND	7.04	117	6.00	2.12	
Total BTEX	<0.300	0.300	04/14/2014	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126*

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	04/14/2014	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	04/13/2014	ND	200	99.8	200	4.12	
DRO >C10-C28	<10.0	10.0	04/13/2014	ND	204	102	200	13.5	

*Surrogate: 1-Chlorooctane 106 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 94.8 % 63.6-154*

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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.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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



## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Tuesday, July 01, 2014 7:34 AM  
**To:** Cliff P. Brunson  
**Cc:** Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-Tigger 9 State #7-Remediation Plan

RE: OXY USA INC \* Tigger 9 State 007 \* 30-015-40938 \* J-9-17s-29e \* Eddy County, New Mexico  
NMOCD Tracking Number: 2RP-2187 \* Date of release: 2/13/2014

Cliff,

Your proposal for remediation of the above referenced produced fluid release is approved. Please notify the OCD District 2 office prior to commencement of remedial operations.

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 P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Thursday, June 26, 2014 8:19 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Tigger 9 State #7-Remediation Plan

Mike,

This e-mail is to confirm our conversation on June 18, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 1 foot across the leak area as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President

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World-Wide Environmental Specialists  
Mailing Address:  
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Hobbs, NM 88241-0805 USA  
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1324 W. Marland St.  
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\*\*\*\*\*

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