

# Closure Report

## Site Description

Site Name:	Rogers #006
Company:	Oxy Permian
Legal Description:	U/L J, Section 23, T18S, R26E
County:	Eddy County, NM
GPS Coordinates:	N 32.73259° W 104.35140°

## Release Data

Date of Release:	08/28/2016
Type of Release:	Oil
Source of Release:	Stuffing box packing on the well head blew out
Volume of Release:	20 bbls
Volume Recovered:	19 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the entire leak to a depth of 1 foot. Backfill the site with clean soil.	
Remediation Activities:	January 2017	
Plan Sent to OCD:	11/21/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/29/2016	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 09/09/2016
Final C-141	Signed 01/31/2017
Site Diagram	September 2016
Groundwater Plot	50'-75'
TOPO Maps	September 2016
Lab Summary	09/13/2016-09/14/2016
Lab Analysis	09/13/2016-09/14/2016
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.

02/14/2016

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  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Rogers #006	Facility Type	Well
Surface Owner	State	Mineral Owner	API No. 30-015-39850

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	23	18S	26E					Eddy County, NM

Latitude N 32.73259° Longitude W 104.35140°

**NATURE OF RELEASE**

Type of Release	Oil	Volume of Release	20 bbls	Volume Recovered	19 bbls
Source of Release	Stuffing box packing on the wellhead blew out	Date and Hour of Occurrence	08/28/2016	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		
By Whom?	Kathy@ BBC International, Inc.	Date and Hour	08/29/2016 @ 4:23 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.\*

The stuffing box packing blew out on the well head and caused a leak of 20 bbls of oil. A vacuum truck recovered 19 bbls of oil and the stuffing box packing was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 150' x 75' both on and off location. Remediation will be completed in accordance with a remediation 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:	<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: 9-9-16	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  
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1000 Rio Brazos Road, Aztec, NM 87410  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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1220 South St. Francis Dr.  
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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	Rogers #006	Facility Type	Well
Surface Owner	State	Mineral Owner	API No. 30-015-39850

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	23	18S	26E					Eddy County, NM

Latitude N 32.73259° Longitude W 104.35140°

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Source of Release	Stuffing box packing on the wellhead blew out	Date and Hour of Occurrence	08/28/2016	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		
By Whom?	Kathy@BBC International, Inc.	Date and Hour	08/29/2016 @ 4:23 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.\*

The stuffing box packing blew out on the well head and caused a leak of 20 bbls of oil. A vacuum truck recovered 19 bbls of oil and the stuffing box packing was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 150' x 75' both on and off location. Remediation was completed in accordance with a remediation plan approved by Mike Bratcher of NMOCD via email on 11/29/2016.

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: <a href="mailto:Casey.Summers@oxy.com">Casey.Summers@oxy.com</a>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1-31-17 Phone: (575) 513-8289			

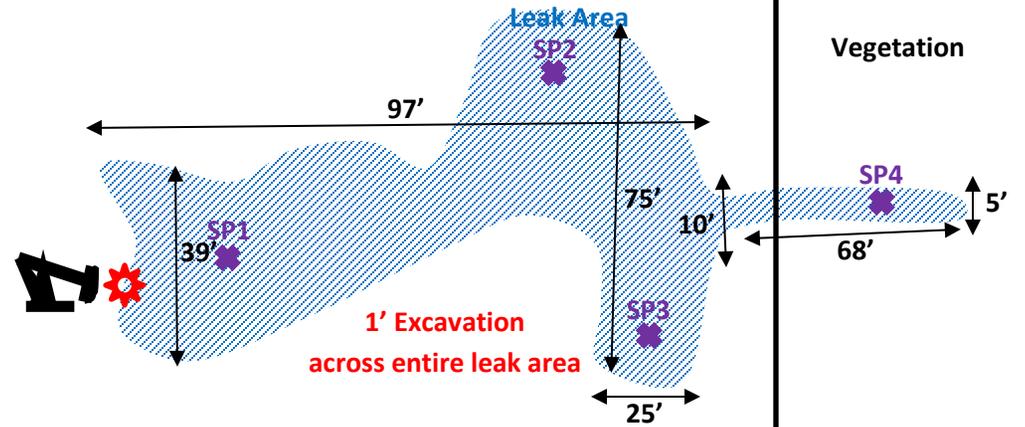
\* Attach Additional Sheets If Necessary



Oxy  
Rogers #006 (8/28/16)

Location

Vegetation



Vegetation

Vegetation

U/L J, Section 23, T18S, R26E

Eddy County, NM

N 32.73259° W 104.35140°

API# 30-015-39850

**BBC International, Inc.**

**Oxy  
Rogers #006**

Date: 09/09//2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



# Groundwater Plot

## Oxy Rogers #006

County  
Eddy

Unit Letter  
J

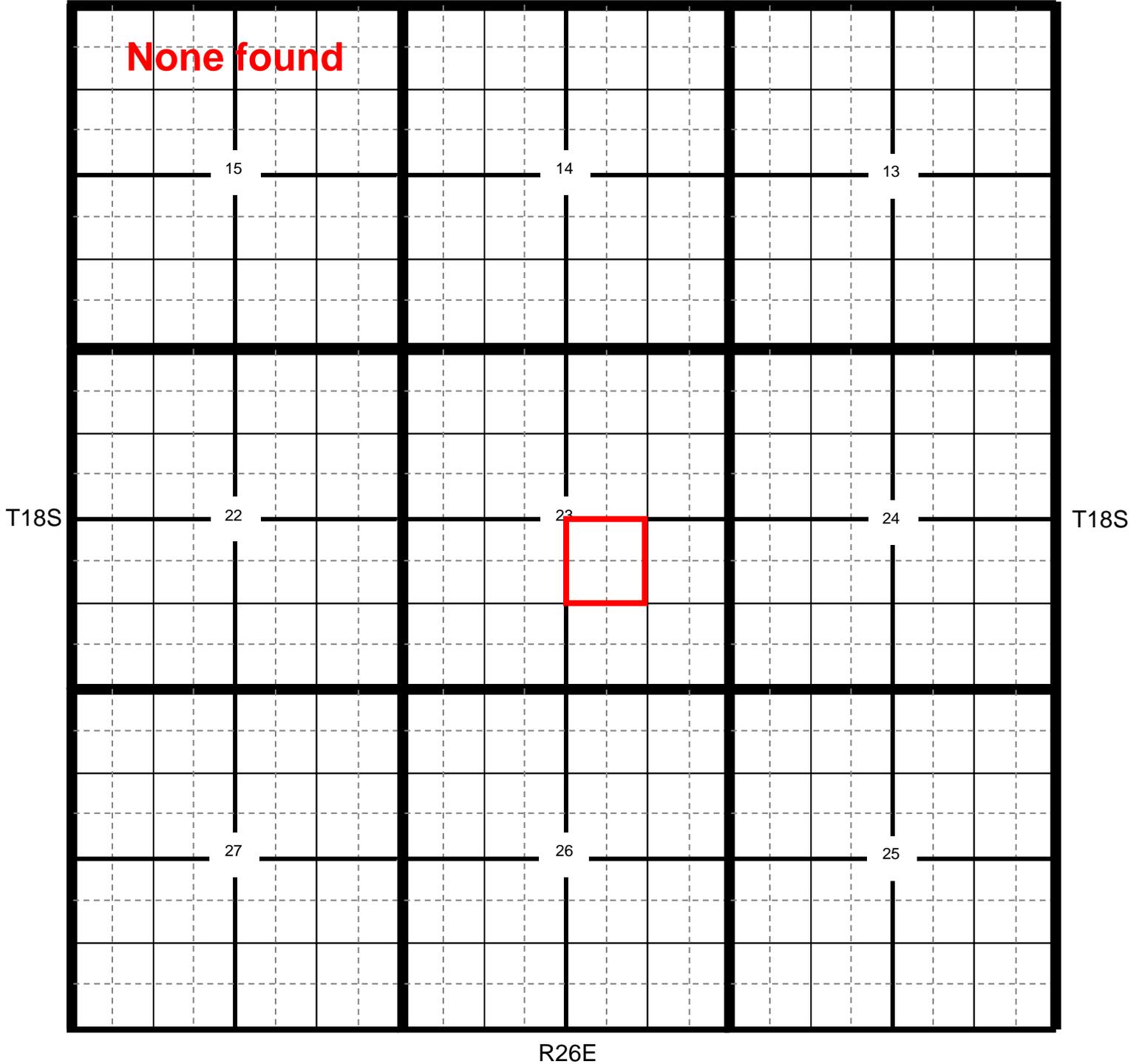
Section  
23

Township  
18S

Range  
26E

Trend Map 50'-75'

R26E



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Rogers #006

**County** Eddy      **Unit Letter** J      **Section** 23      **Township** 18S      **Range** 26E

Trend Map 50'-75'

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	<b>NW/SE</b>	NE/SE
Unit Letter L	Unit Letter K	<b>Unit Letter J</b>	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  
Rogers #006**

		Sample	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	9/13/16	9/13/16	9/13/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>848</b>	<b>208</b>	<b>224</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>30.6</b>	<10.0	<10.0

		Sample	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	9/13/16	9/13/16	9/13/16	9/13/16
			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>816</b>	<b>560</b>	<b>464</b>	<b>256</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	n/a
<b>DRO</b>	TPH 8015M		<b>11.3</b>	<10.0	<10.0	n/a

		Sample	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	9/13/16	9/13/16	9/13/16	9/13/16
			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>1880</b>	<b>768</b>	<b>400</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	n/a
<b>DRO</b>	TPH 8015M		<b>75.2</b>	<10.0	<10.0	n/a

		Sample	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	9/13/16	9/14/16	9/14/16	9/14/16	9/14/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>27600</b>	<b>1680</b>	<b>480</b>	<b>336</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>193</b>	<10.0	<10.0	n/a	n/a



September 22, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ROGER'S #6

Enclosed are the results of analyses for samples received by the laboratory on 09/16/16 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 1 @ SURFACE (H602080-01)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78		
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01		
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15		
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01		
Total BTEX	<0.300	0.300	09/20/2016	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	
<b>Chloride</b>	<b>848</b>	16.0	09/22/2016	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	09/19/2016	ND	202	101	200	2.97		
<b>DRO &gt;C10-C28</b>	<b>30.6</b>	10.0	09/19/2016	ND	211	106	200	2.27		

*Surrogate: 1-Chlorooctane 82.0 % 35-147*
*Surrogate: 1-Chlorooctadecane 96.0 % 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:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 1 @ 1' (H602080-02)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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
<b>Chloride</b>	<b>208</b>	16.0	09/22/2016	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	09/19/2016	ND	202	101	200	2.97	
DRO >C10-C28	<10.0	10.0	09/19/2016	ND	211	106	200	2.27	

*Surrogate: 1-Chlorooctane 80.6 % 35-147*
*Surrogate: 1-Chlorooctadecane 93.1 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

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 Fax To: (575) 397-0397

Received:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 1 @ 2' (H602080-03)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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
<b>Chloride</b>	<b>224</b>	16.0	09/22/2016	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	09/19/2016	ND	202	101	200	2.97	
DRO >C10-C28	<10.0	10.0	09/19/2016	ND	211	106	200	2.27	

Surrogate: 1-Chlorooctane 83.0 % 35-147

Surrogate: 1-Chlorooctadecane 95.8 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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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:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 2 @ SURFACE (H602080-04)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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
<b>Chloride</b>	<b>816</b>	16.0	09/22/2016	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	09/19/2016	ND	202	101	200	2.97	
<b>DRO &gt;C10-C28</b>	<b>11.3</b>	10.0	09/19/2016	ND	211	106	200	2.27	

Surrogate: 1-Chlorooctane 85.9 % 35-147

Surrogate: 1-Chlorooctadecane 95.3 % 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:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 2 @ 1' (H602080-05)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	560	16.0	09/22/2016	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	09/19/2016	ND	202	101	200	2.97	
DRO >C10-C28	<10.0	10.0	09/19/2016	ND	211	106	200	2.27	

Surrogate: 1-Chlorooctane 91.8 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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**Analytical Results For:**

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 Fax To: (575) 397-0397

Received:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 2 @ 2' (H602080-06)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 100 % 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
<b>Chloride</b>	<b>464</b>	16.0	09/22/2016	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	09/19/2016	ND	202	101	200	2.97	
DRO >C10-C28	<10.0	10.0	09/19/2016	ND	211	106	200	2.27	

*Surrogate: 1-Chlorooctane 92.8 % 35-147*
*Surrogate: 1-Chlorooctadecane 108 % 28-171*
**Sample ID: SP 2 @ 3' (H602080-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	09/22/2016	ND	432	108	400	0.00	

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**Analytical Results For:**

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Received:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 3 @ SURFACE (H602080-08)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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
<b>Chloride</b>	<b>1880</b>	16.0	09/22/2016	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	09/19/2016	ND	202	101	200	2.97	
<b>DRO &gt;C10-C28</b>	<b>75.2</b>	10.0	09/19/2016	ND	211	106	200	2.27	

Surrogate: 1-Chlorooctane 76.9 % 35-147

Surrogate: 1-Chlorooctadecane 91.2 % 28-171

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Received:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 3 @ 1' (H602080-09)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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
<b>Chloride</b>	<b>768</b>	16.0	09/22/2016	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	09/19/2016	ND	202	101	200	2.97	
DRO >C10-C28	<10.0	10.0	09/19/2016	ND	211	106	200	2.27	

*Surrogate: 1-Chlorooctane 89.3 % 35-147*
*Surrogate: 1-Chlorooctadecane 104 % 28-171*

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Received:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 3 @ 2' (H602080-10)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 100 % 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
<b>Chloride</b>	<b>400</b>	16.0	09/22/2016	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	09/19/2016	ND	202	101	200	2.97	
DRO >C10-C28	<10.0	10.0	09/19/2016	ND	211	106	200	2.27	

*Surrogate: 1-Chlorooctane 98.2 % 35-147*
*Surrogate: 1-Chlorooctadecane 117 % 28-171*
**Sample ID: SP 3 @ 3' (H602080-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	09/22/2016	ND	432	108	400	0.00	

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 Fax To: (575) 397-0397

Received:	09/16/2016	Sampling Date:	09/13/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 4 @ SURFACE (H602080-12)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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
<b>Chloride</b>	<b>27600</b>	16.0	09/22/2016	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	09/19/2016	ND	186	93.2	200	5.01	
<b>DRO &gt;C10-C28</b>	<b>193</b>	10.0	09/19/2016	ND	204	102	200	4.06	

Surrogate: 1-Chlorooctane 99.4 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

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 Fax To: (575) 397-0397

Received:	09/16/2016	Sampling Date:	09/14/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 4 @ 1' (H602080-13)**

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	09/20/2016	ND	1.95	97.5	2.00	4.78	
Toluene*	<0.050	0.050	09/20/2016	ND	1.98	99.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	1.89	94.6	2.00	5.15	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	5.67	94.6	6.00	5.01	
Total BTEX	<0.300	0.300	09/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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
<b>Chloride</b>	<b>1680</b>	16.0	09/22/2016	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	09/19/2016	ND	186	93.2	200	5.01	
DRO >C10-C28	<10.0	10.0	09/19/2016	ND	204	102	200	4.06	

*Surrogate: 1-Chlorooctane 88.8 % 35-147*
*Surrogate: 1-Chlorooctadecane 102 % 28-171*

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Received:	09/16/2016	Sampling Date:	09/14/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 4 @ 2' (H602080-14)**

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	09/20/2016	ND	2.14	107	2.00	2.58	
Toluene*	<0.050	0.050	09/20/2016	ND	2.19	109	2.00	1.65	
Ethylbenzene*	<0.050	0.050	09/20/2016	ND	2.10	105	2.00	1.16	
Total Xylenes*	<0.150	0.150	09/20/2016	ND	6.29	105	6.00	1.14	
Total BTEX	<0.300	0.300	09/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
<b>Chloride</b>	<b>480</b>	16.0	09/22/2016	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	09/19/2016	ND	186	93.2	200	5.01	
DRO >C10-C28	<10.0	10.0	09/19/2016	ND	204	102	200	4.06	

*Surrogate: 1-Chlorooctane 93.8 % 35-147*
*Surrogate: 1-Chlorooctadecane 104 % 28-171*
**Sample ID: SP 4 @ 3' (H602080-15)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	09/22/2016	ND	432	108	400	0.00	

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 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2016	Sampling Date:	09/14/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ROGER'S #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA, NM		

**Sample ID: SP 4 @ 4' (H602080-16)**
**Chloride, SM4500Cl-B**
**mg/kg**
**Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	09/22/2016	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





**CARDINAL LABORATORIES**

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc. P.O. #:

Project Manager: Cliff Brunson Company:

Address: P.O. Box 805 State: NIM Zip: 88241 Attn: *James J.*

City: Hobbs State: NIM Zip: 88241 Address:

Phone #: 575-397-6388 Fax #: 575-397-0397 City: *James J.*

Project #: Project Owner: *DXY* State: Zip:

Project Name: *Loger's #6* City: Phone #:

Project Location: *Loger's #6* State: Zip:

Sampler Name: *V.O.* Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	Cl-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER							
<i>H60208C</i>																
<i>11</i>	<i>SP 3E3</i>	<i>(G)</i>	<i>1</i>			<i>X</i>				<i>X</i>	<i>9-13</i>	<i>2:00</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>12</i>	<i>SP 3E3</i>	<i>(G)</i>	<i>1</i>			<i>X</i>				<i>X</i>	<i>9-13</i>	<i>3:19</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>13</i>	<i>SP 3E3</i>	<i>(G)</i>	<i>1</i>			<i>X</i>				<i>X</i>	<i>9-14</i>	<i>1:33</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>14</i>	<i>SP 3E3</i>	<i>(G)</i>	<i>1</i>			<i>X</i>				<i>X</i>	<i>9-14</i>	<i>12:40</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>15</i>	<i>SP 3E3</i>	<i>(G)</i>	<i>1</i>			<i>X</i>				<i>X</i>	<i>9-14</i>	<i>1:11</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>16</i>	<i>SP 3E3</i>	<i>(G)</i>	<i>1</i>			<i>X</i>				<i>X</i>	<i>9-14</i>	<i>1:50</i>	<i>X</i>	<i>X</i>	<i>X</i>	

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Relinquished By: *Wt. Dinkley* Date: *9-16-16* Received By: *Scott Henderson*

Relinquished By: *Wt. Dinkley* Date: *9-16-16* Received By: *Scott Henderson*

Delivered By: *Carla Adams* Date: *9-16-16* Time: *11:50* Received By: *Scott Henderson*

Sampler - UPS - Bus - Other: *-3:16*

Sample Condition:  Yes  No

Cool Intact:  Yes  No

CHECKED BY: *Scott Henderson*

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

*#75*

**From:** Bratcher, Mike, EMNRD  
**To:** [Cliff Brunson](#)  
**Cc:** [Patterson, Heather, EMNRD](#); [Casey Summers](#); [jennifer\\_duarte@oxy.com](mailto:jennifer_duarte@oxy.com); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [Weaver, Crystal, EMNRD](#)  
**Subject:** RE: OXY Rogers #006 - Remediation Plan  
**Date:** Tuesday, November 29, 2016 7:49:25 AM

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RE: OXY USA \* Rogers 6 \* **2RP-3900** \* DOR: 8/28/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled.

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**

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**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Monday, November 21, 2016 8:24 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 Rogers #006 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Rogers #006 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 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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1FT depth



Complete



Complete

