

# Closure Report

## Site Description

Site Name:	Cypress 34 Federal #6H
Company:	Oxy Permian Ltd.
Legal Description:	U/L M, Section 34, T23S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.25503° W 103.97884°

## Release Data

Date of Release:	07/15/2013
Type of Release:	Produced water
Source of Release:	Over pressure on flow line
Volume of Release:	10 bbls
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the areas around SP1, SP4, and SP5 to a depth of 2 feet. Surface scrape the areas around SP2 and SP3. Obtain confirmation bottom samples. Backfill the excavated areas with clean soil.	
Remediation Activities:	07/17/2014 to 08/11/2014	
Plan Sent to OCD:	01/02/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	01/09/2014	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	01/28/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	01/29/2014	Email from J. Van Curen to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 08/06/2013
Final C-141	Signed 08/21/2014
Site Diagram	July 2013
Groundwater Plot	50'-75'
TOPO Maps	July 2013
Lab Summary	07/25/2013, 08/26/2013, and 07/23/2014
Lab Analysis	07/25/2013, 08/26/2013, and 07/23/2014
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.

08/29/2014

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	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Cypress 34 Federal #6H	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-38366

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	34	23S	29E	400	South	400	West	Eddy

Latitude N 32.25503° Longitude W 103.97884°

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	10 bbls	Volume Recovered	0 bbls
Source of Release	Over pressure on flow line	Date and Hour of Occurrence	07/15/2013	Date and Hour of Discovery	07/15/2013
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-NMOCD; Jennifer Van Curen, James Amos- BLM			
By Whom?	Chancey Summers	Date and Hour	07/16/2013 @ 11:15 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.\*

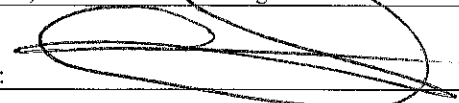
Describe Cause of Problem and Remedial Action Taken.\*

Over pressure on a flow line caused 10 bbls of water to leak onto the ground. No fluids were recovered.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 275' x 50'. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by Environmental Specialist:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: 8-6-13 Phone: (575) 397-8216		Attached <input type="checkbox"/>	

\* 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  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
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Form C-141  
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Submit 1 Copy to appropriate District Office in  
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☐ Initial Report ☒ Final Report

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Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Cypress 34 Federal #6H	Facility Type	Well location

Surface Owner	BLM	Mineral Owner		API No.	30-015-38366
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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
M	34	23S	29E	400	South	400	West	Eddy

Latitude N 32.25503° Longitude W 103.97884°

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Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD; Jennifer Van Curen, James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	07/16/2013 @ 11:15 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

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Over pressure on a flow line caused 10 bbls of water to leak onto the ground. No fluids were recovered.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 275' x 50'. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 01/09/2014 and approved by Jennifer Van Curen of the BLM via email on 01/29/2014.

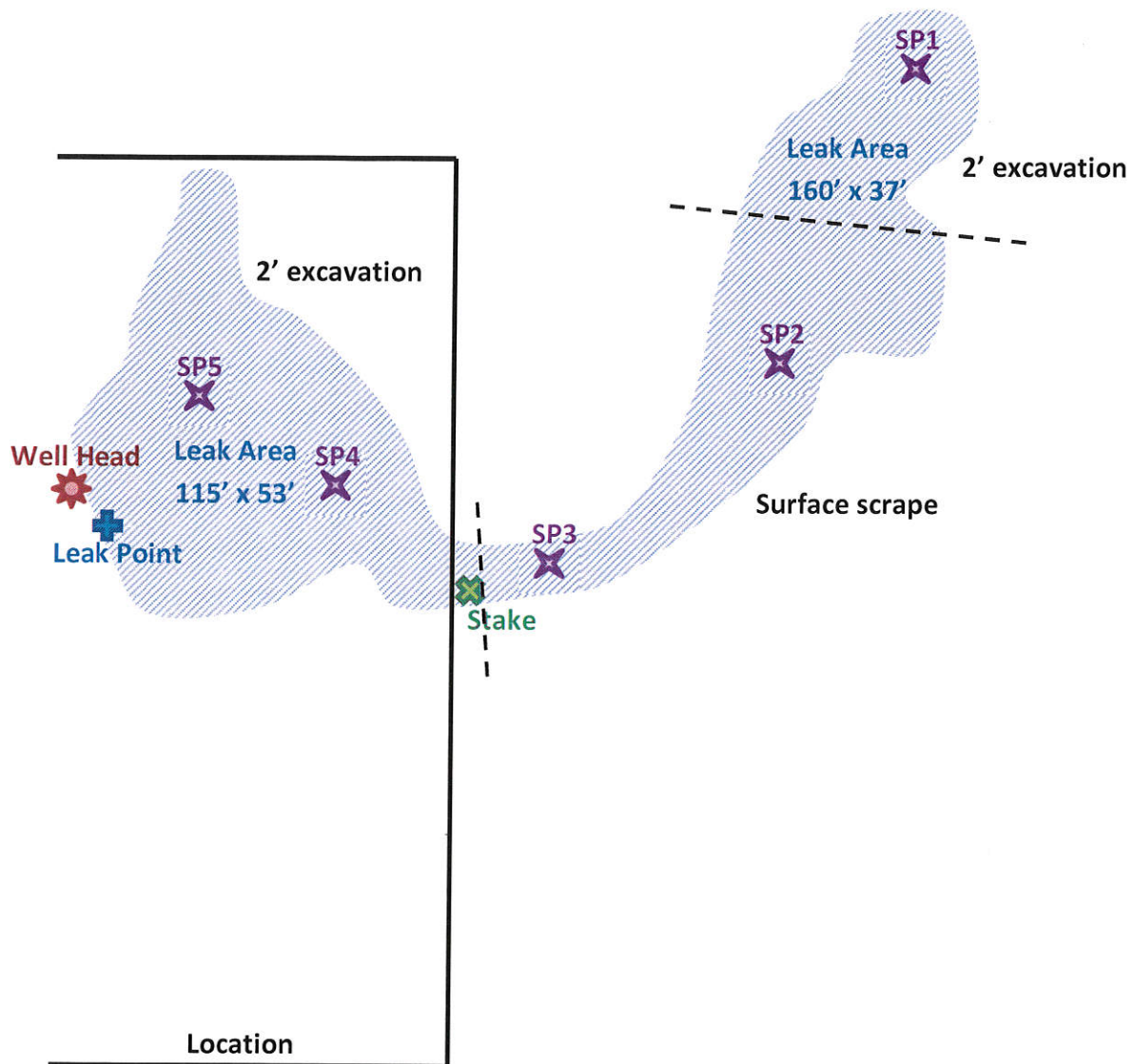
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Advisor	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-21-14	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary



Oxy  
Cypress 34 Federal #6H



U/L M, Section 34, T23S, R29E  
400' FSL and 400' FWL  
Eddy County, NM  
N 32.25503° W 103.97884°  
API# 30-015-38366

BBC International, Inc.	
Oxy	
Cypress 34 Federal #6H	
Date: 07/26/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013

# Groundwater Plot

Oxy Cypress 34 Federal #6H

County  
Eddy

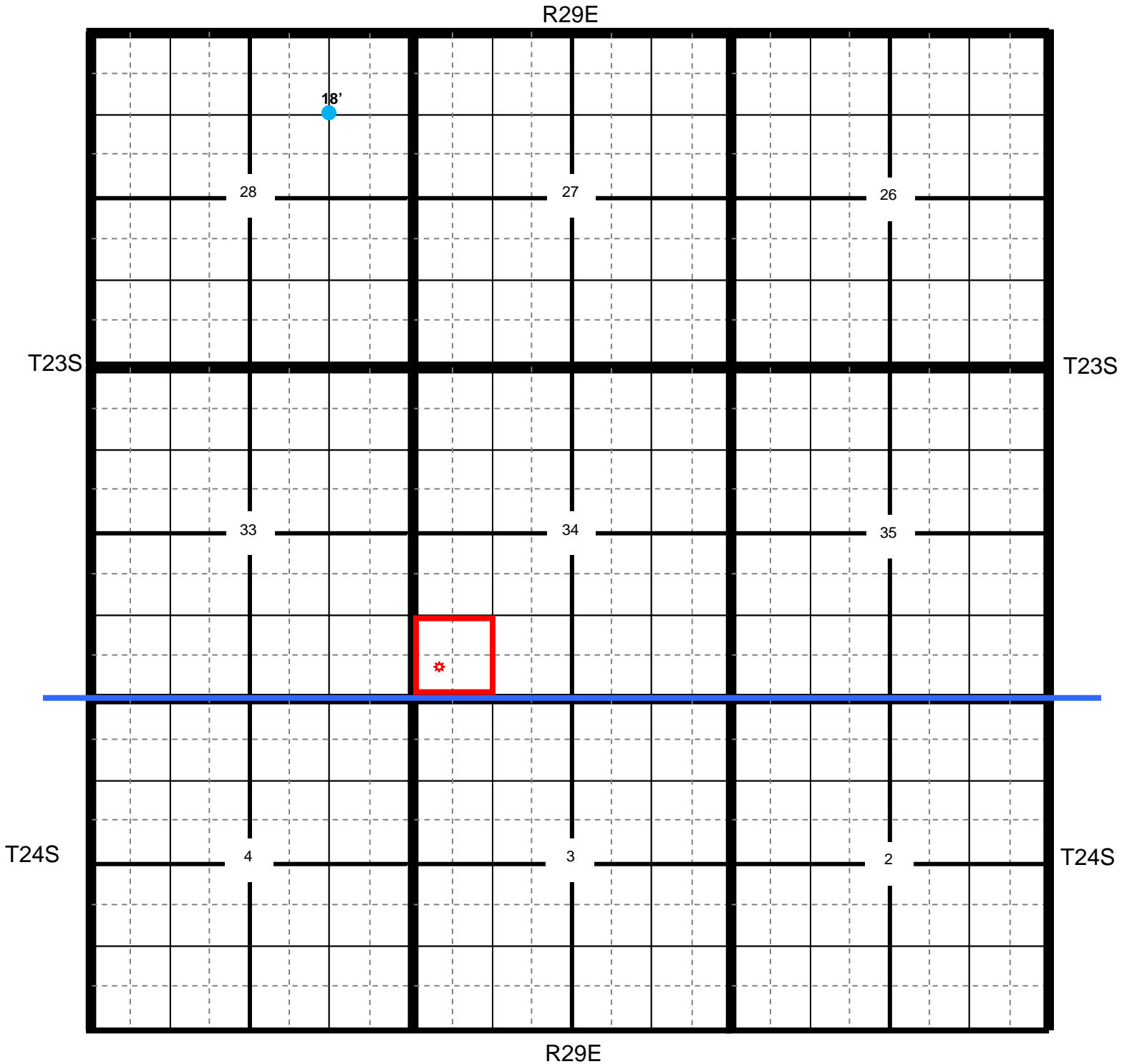
Unit Letter  
M

Section  
34

Township  
23S

Range  
29E

Trend Map 50'-75'



★ Location

● OCD

● USGS

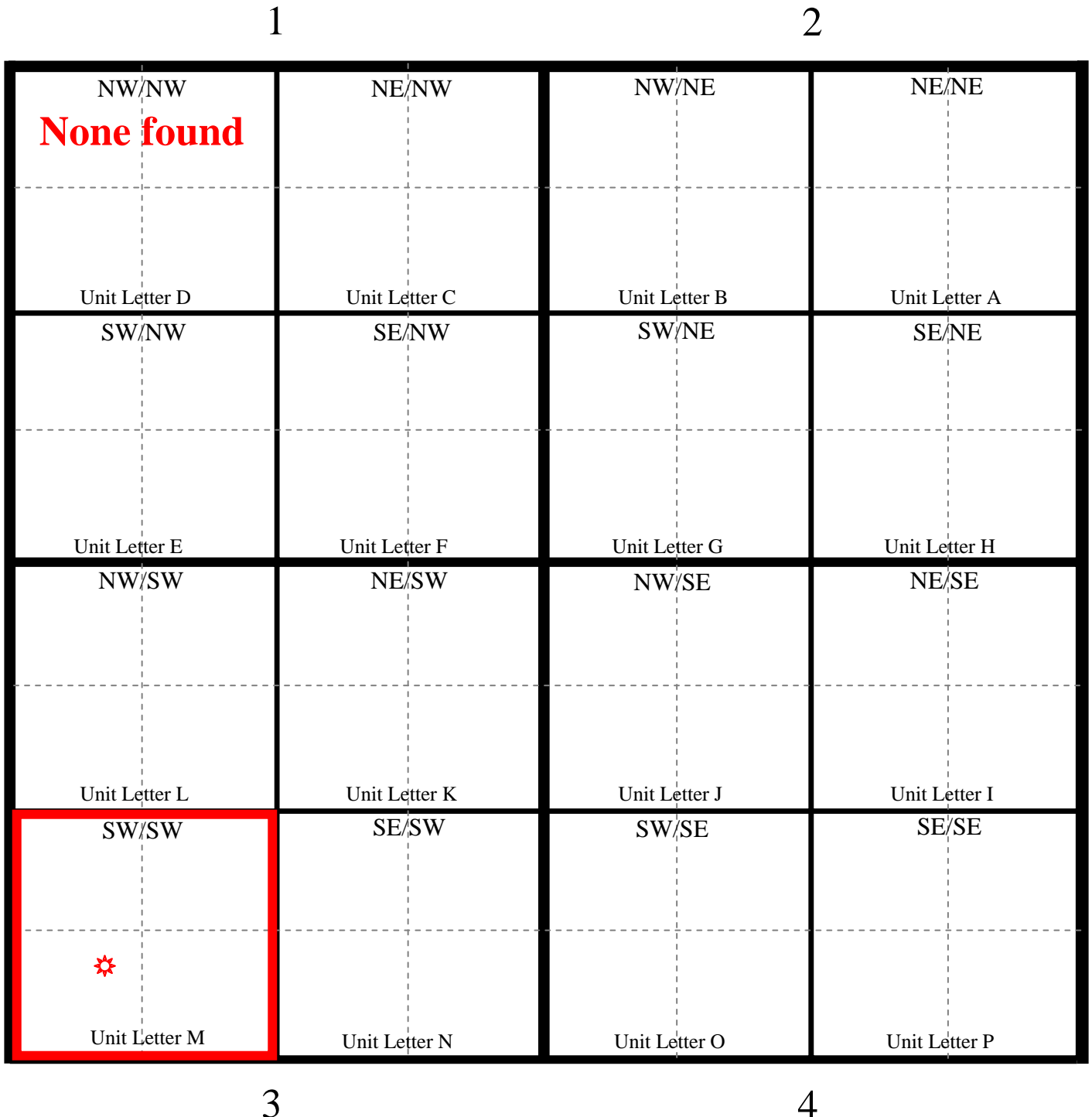
● SEO

● All Databases

## Oxy Cypress 34 Federal #6H

<b>County</b> Eddy	<b>Unit Letter</b> M	<b>Section</b> 34	<b>Township</b> 23S	<b>Range</b> 29E
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Trend Map 50'-75'



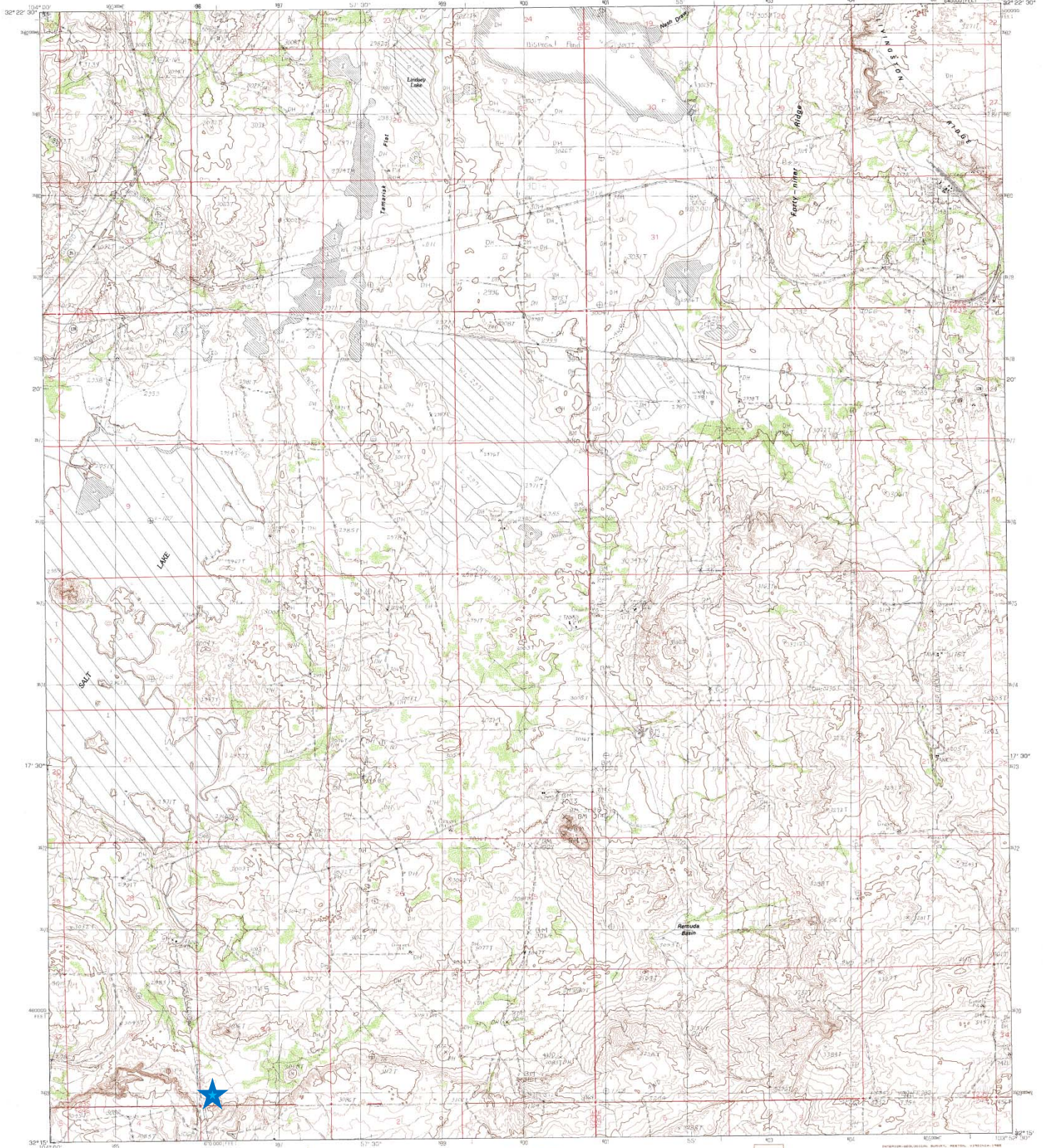


Oxy

# Cypress 34 Federal #6H

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

REMUDA BASIN QUADRANGLE  
NEW MEXICO-EDDY CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
CONTER BY: ..... U.S. GEOLOGICAL SURVEY  
FIELD CHECKED BY: ..... U.S. GEOLOGICAL SURVEY  
PROJECTION: ..... U.S. GEOLOGICAL SURVEY  
UTM GRID DECLINATION: ..... U.S. GEOLOGICAL SURVEY  
UTM GRID MAGNETIC NORTH DECLINATION: ..... U.S. GEOLOGICAL SURVEY  
VERTICAL DATUM: ..... NATIONAL GEODETIC SURVEY  
HORIZONTAL DATUM: ..... NORTH AMERICAN DATUM  
To place on the projected North American Datum of 1983,  
move the projection lines as shown by dashed corner ticks  
10 meters north and 40 meters east.  
There may be private inholdings within the boundary of any  
Federal and State Reservations shown on this map.  
All marginal data and lettering generated and positioned by  
automated type placement procedures.

PROVISIONAL MAP  
Produced from original  
manuscript drawings. Infor-  
mation shown as of date of  
field check. 3



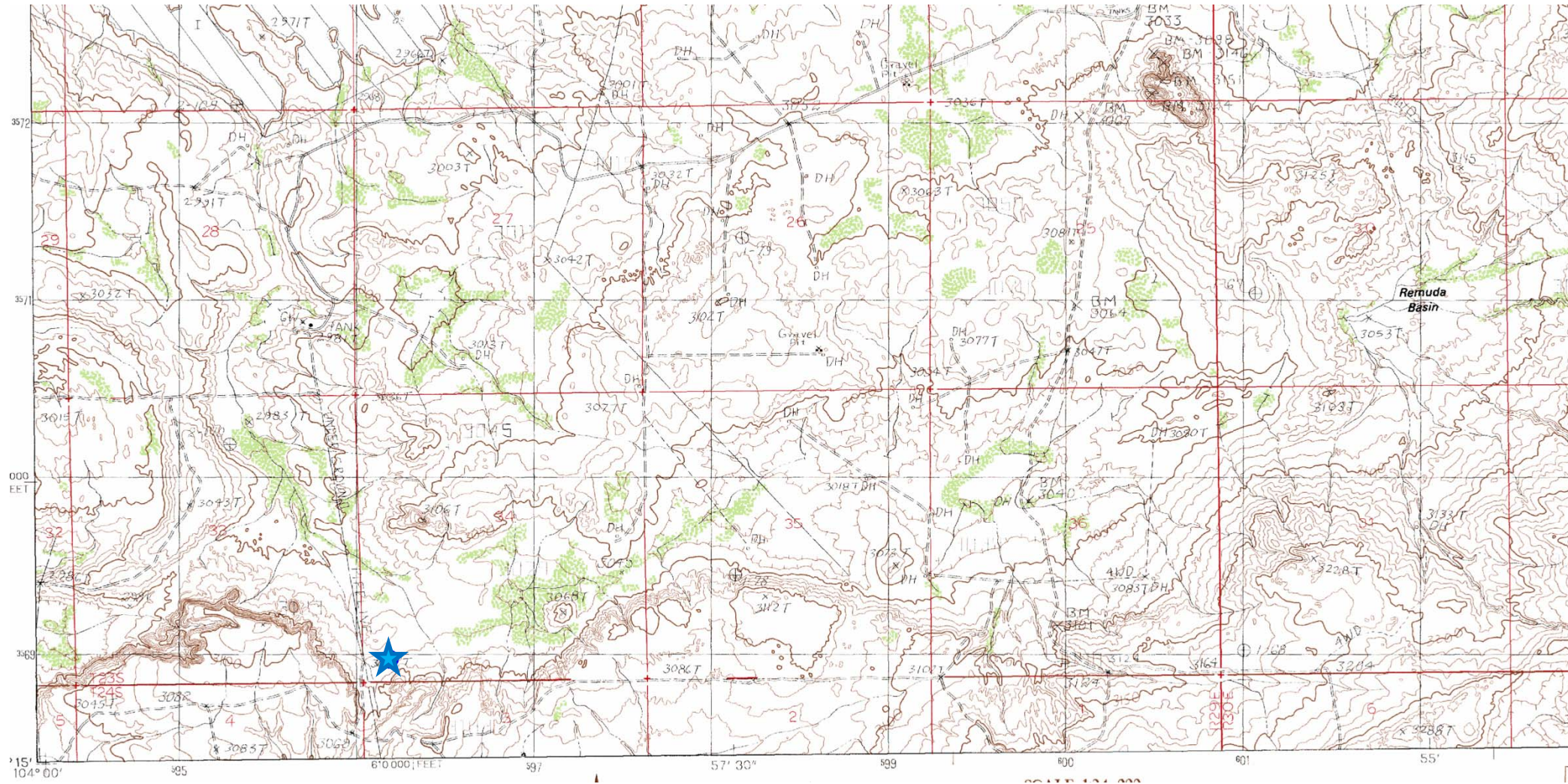
1	2	3	4	5	6	7	8
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1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

ROAD LEGEND  
Improved Road .....  
Unimproved Road .....  
Trail .....  
Interstate Route ..... U.S. Route ..... State Route .....  
REMUDA BASIN, NEW MEXICO  
PROVISIONAL EDITION 1985  
320345-RT-024



Oxy

## Cypress 34 Federal #6H





**Laboratory Analytical Results Summary**  
**Cypress 34 Federal #6H**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	7/25/13	7/25/13	8/26/13	8/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.157	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		4240	1880	<16.0	<16.0
GRO	TPH 8015M		<50.0	<50.0	<10.0	<10.0
DRO	TPH 8015M		14800	18900	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	7/25/13	7/25/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	0.076
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		32	32
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	7/25/13	7/25/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		<16.0	16
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		16.2	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	7/25/13	7/25/13	8/26/13	8/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500CI-B		9330	3360	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		373	34.3	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	7/25/13	7/25/13	8/26/13	8/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500CI-B		10100	2720	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		299	29.5	n/a	n/a

**Laboratory Analytical Results Summary  
Cypress 34 Federal #6H**

		Sample	Bottom 1	Bottom 2
Analyte	Method	Date	7/23/14	7/23/14
			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>32</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0



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

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August 07, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 FED 6H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 16:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H301801-01)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/07/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	1.75	87.3	2.00	5.70	
<b>Total Xylenes*</b>	<b>0.157</b>	0.150	08/07/2013	ND	5.21	86.9	6.00	5.13	
Total BTEX	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142

Surrogate: Toluene-d8 99.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 138 % 65.7-141

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>4240</b>	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	08/02/2013	ND	178	89.1	200	1.03		
<b>DRO &gt;C10-C28</b>	<b>14800</b>	50.0	08/02/2013	ND	186	92.8	200	2.16		

Surrogate: 1-Chlorooctane 89.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 689 % 63.6-154

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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H301801-02)**

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/07/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/07/2013	ND	5.21	86.9	6.00	5.13		
Total BTX	<0.300	0.300	08/07/2013	ND						

Surrogate: Dibromofluoromethane 97.2 % 61.3-142  
Surrogate: Toluene-d8 98.5 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 134 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	08/01/2013	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	08/02/2013	ND	178	89.1	200	1.03		
DRO >C10-C28	18900	50.0	08/02/2013	ND	186	92.8	200	2.16		

Surrogate: 1-Chlorooctane 89.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 925 % 63.6-154

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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H301801-03)**

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTEX	<0.300	0.300	08/07/2013	ND						

Surrogate: Dibromofluoromethane 97.8 % 61.3-142  
Surrogate: Toluene-d8 99.2 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 90.5 % 65.2-140  
Surrogate: 1-Chlorooctadecane 109 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H301801-04)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	0.076	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142  
Surrogate: Toluene-d8 99.3 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 80.9 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301801-05)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142  
Surrogate: Toluene-d8 97.9 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 100 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	16.2	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 82.4 % 65.2-140  
Surrogate: 1-Chlorooctadecane 108 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H301801-06)**

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/07/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/07/2013	ND	5.21	86.9	6.00	5.13		
Total BTX	<0.300	0.300	08/07/2013	ND						

Surrogate: Dibromofluoromethane 99.8 % 61.3-142  
Surrogate: Toluene-d8 99.3 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 90.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 116 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H301801-07)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.25	113	2.00	2.96	
Toluene*	<0.050	0.050	08/07/2013	ND	2.14	107	2.00	3.86	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.08	104	2.00	3.57	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.19	103	6.00	3.61	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 99.2 % 61.3-142  
Surrogate: Toluene-d8 100 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	373	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 97.6 % 65.2-140  
Surrogate: 1-Chlorooctadecane 132 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H301801-08)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.25	113	2.00	2.96	
Toluene*	<0.050	0.050	08/07/2013	ND	2.14	107	2.00	3.86	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.08	104	2.00	3.57	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.19	103	6.00	3.61	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 98.3 % 61.3-142  
Surrogate: Toluene-d8 99.9 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	34.3	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 84.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 110 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H301801-09)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.25	113	2.00	2.96	
Toluene*	<0.050	0.050	08/07/2013	ND	2.14	107	2.00	3.86	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.08	104	2.00	3.57	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.19	103	6.00	3.61	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.0 % 61.3-142  
Surrogate: Toluene-d8 100 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	299	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 89.4 % 65.2-140  
Surrogate: 1-Chlorooctadecane 121 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 2' (H301801-10)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.25	113	2.00	2.96	
Toluene*	<0.050	0.050	08/07/2013	ND	2.14	107	2.00	3.86	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.08	104	2.00	3.57	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.19	103	6.00	3.61	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142  
Surrogate: Toluene-d8 98.7 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	29.5	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 92.0 % 65.2-140  
Surrogate: 1-Chlorooctadecane 120 % 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

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---

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

[illegible]

September 03, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 FED 6H

Enclosed are the results of analyses for samples received by the laboratory on 08/27/13 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: HWY 128

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H302059-01)**

BTEX 8260B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 104 % 61.3-142

Surrogate: Toluene-d8 99.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: AR/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	

Surrogate: 1-Chlorooctane 97.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 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: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: HWY 128

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 4' (H302059-02)**

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142  
Surrogate: Toluene-d8 102 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	

Surrogate: 1-Chlorooctane 99.1 % 65.2-140  
Surrogate: 1-Chlorooctadecane 98.6 % 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: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: HWY 128

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H302059-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69	

**Sample ID: SP 4 @ 4' (H302059-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69	

**Sample ID: SP 5 @ 3' (H302059-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69	

**Sample ID: SP 5 @ 4' (H302059-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	3.92	

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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

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Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



**101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476**

754



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

---

July 25, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 FED 6H

Enclosed are the results of analyses for samples received by the laboratory on 07/24/14 8:20.

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 black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 07/24/2014  
Reported: 07/25/2014  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: HWY 128

Sampling Date: 07/23/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BOTTOM #1 (H402266-01)**

BTX 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	07/25/2014	ND	2.20	110	2.00	1.98	
Toluene*	<0.050	0.050	07/25/2014	ND	2.23	111	2.00	2.89	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	2.27	113	2.00	3.00	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	6.86	114	6.00	3.25	
Total BTX	<0.300	0.300	07/25/2014	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	
Chloride	32.0	16.0	07/24/2014	ND	400	100	400	7.69		

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	07/25/2014	ND	176	88.2	200	2.52	
DRO >C10-C28	<10.0	10.0	07/25/2014	ND	194	97.0	200	3.54	

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 135 % 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: 07/24/2014  
Reported: 07/25/2014  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: HWY 128

Sampling Date: 07/23/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BOTTOM #2 (H402266-02)**

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	07/25/2014	ND	2.20	110	2.00	1.98	
Toluene*	<0.050	0.050	07/25/2014	ND	2.23	111	2.00	2.89	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	2.27	113	2.00	3.00	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	6.86	114	6.00	3.25	
Total BTEx	<0.300	0.300	07/25/2014	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
Chloride	32.0	16.0	07/24/2014	ND	400	100	400	7.69	

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	07/25/2014	ND	176	88.2	200	2.52	
DRO >C10-C28	<10.0	10.0	07/25/2014	ND	194	97.0	200	3.54	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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\*=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

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager







## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Thursday, January 09, 2014 3:36 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-Cypress 34 Federal #6H-Remediation Plan

Reference: OXY USA \* Cypress 34 Fed 006H \* 30-015-38366 \* M-34-23s-29e \* Eddy County, New Mexico  
NMOCD Reference number: 2RP-1798 \* Date of release: 7/15/13

Cliff,

Your proposal for remediation of the above reference produced fluid release is approved. Please notify OCD prior to commencement of remedial activities. Federal sites will require like approval by 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 P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Thursday, January 02, 2014 12:40 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Cypress 34 Federal #6H-Remediation Plan

Mike,

This e-mail is to confirm our conversation on December 18, 2013 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 the three areas to varying depths as depicted on the attached site drawing. The area 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

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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\*\*\*\*\*



**Kathy Purvis**

---

**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Wednesday, January 29, 2014 1:59 PM  
**To:** Cliff P. Brunson; mike.bratcher@state.nm.us  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: FW: OXY-Cypress 34 Federal #6H-Remediation Plan

Cliff,

The plan is approved with the following mitigation and stips.

**JVC13065NU**

**SPILL DATE 7-15-13 -- REPORT DATE 8-6-13 -- SAMPLE DATE 7-30-13 -- PLAN RECEIVED 1-29-14**

**Plan Implementation:**

1. Cleanup actions must be initiated within 30 days of plan approval.
2. Due to samples being older than 60 days for pad area and 30 days for pasture area, bottom confirmation samples will be required.

**Pad Cleanup Stipulations:**

1. Pad should be bermed with compactable caliche to prevent future spills from leaving the pad and impacting reclaimed pasture areas.

BLM approval of this proposal 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 location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until 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

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905

CELL - 575-361-0042  
FAX - 575-234-5927

On Tue, Jan 28, 2014 at 6:25 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD as referenced by his e-mail below. Oxy will excavate the three areas to varying depths as depicted on the attached site drawing. The area will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

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:** Mike Bratcher <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>

**Date:** Thursday, January 9, 2014 3:35 PM

**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>

**Cc:** C J Summers <[Chancey\\_Summers@oxy.com](mailto:Chancey_Summers@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)>

**Subject:** RE: OXY-Cypress 34 Federal #6H-Remediation Plan

Reference: OXY USA \* Cypress 34 Fed 006H \* 30-015-38366 \* M-34-23s-29e \* Eddy County, New Mexico

NMOCD Reference number: 2RP-1798 \* Date of release: 7/15/13

Cliff,

Your proposal for remediation of the above reference produced fluid release is approved. Please notify OCD prior to commencement of remedial activities. Federal sites will require like approval by 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 P. Brunson [<mailto:cbrunson@bbcinternational.com>]

**Sent:** Thursday, January 02, 2014 12:40 PM

**To:** Bratcher, Mike, EMNRD

**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

**Subject:** OXY-Cypress 34 Federal #6H-Remediation Plan

Mike,

This e-mail is to confirm our conversation on December 18, 2013 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 the three areas to varying depths as depicted on the attached site drawing. The area 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

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

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1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

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\*\*\*\*\*

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# Groundwater Plot

Oxy Cypress 34 Federal #6H

County  
Eddy

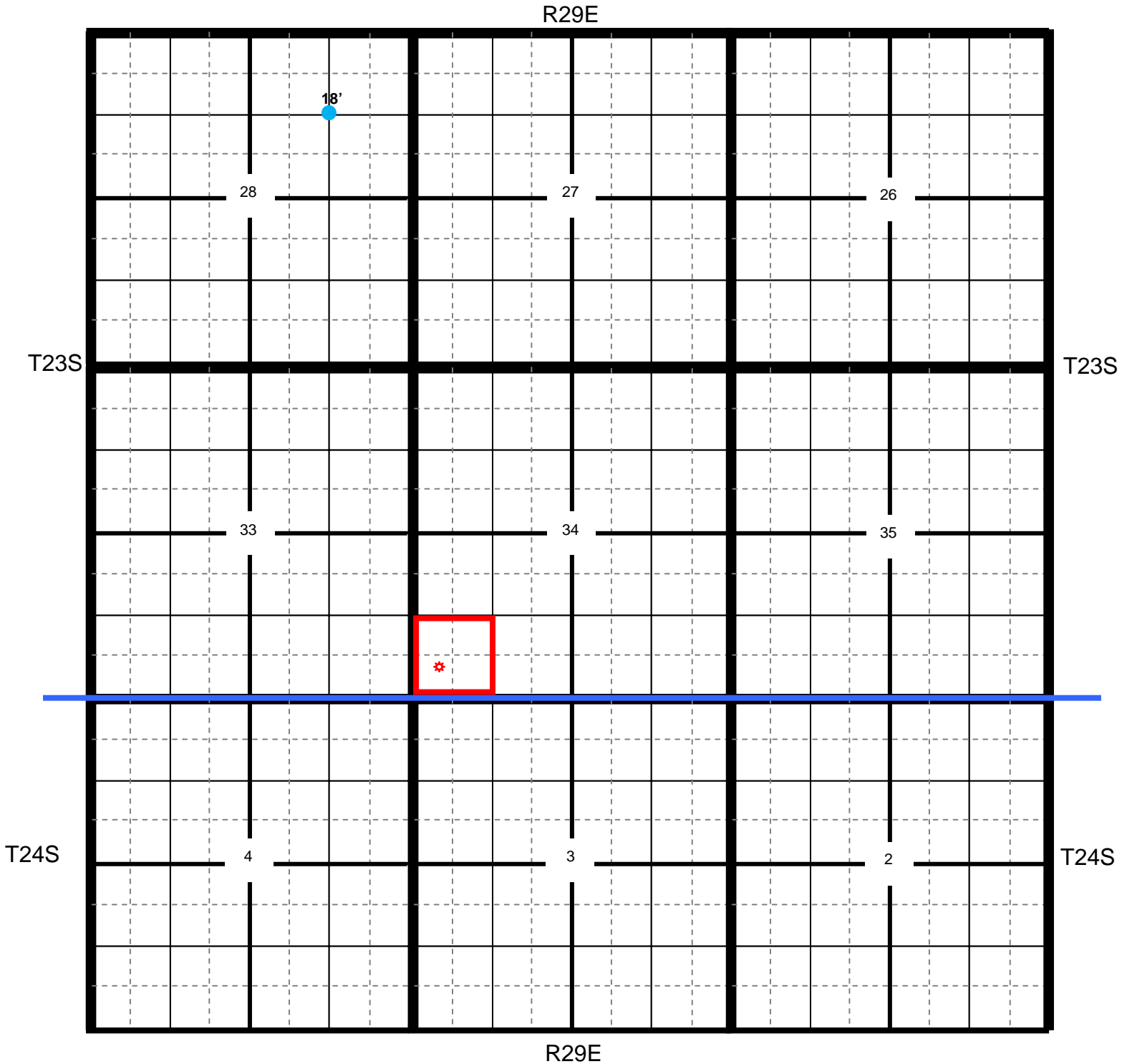
Unit Letter  
M

Section  
34

Township  
23S

Range  
29E

Trend Map 50'-75'



★ Location

● OCD

● USGS

● SEO

● All Databases


# Oxy Cypress 34 Federal #6H

County Eddy      Unit Letter M      Section 34      Township 23S      Range 29E

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	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW 	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

**Laboratory Analytical Results Summary**  
**Cypress 34 Federal #6H**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	7/25/13	7/25/13	8/26/13	8/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.157	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		4240	1880	<16.0	<16.0
GRO	TPH 8015M		<50.0	<50.0	<10.0	<10.0
DRO	TPH 8015M		14800	18900	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	7/25/13	7/25/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	0.076
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		32	32
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	7/25/13	7/25/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		<16.0	16
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		16.2	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	7/25/13	7/25/13	8/26/13	8/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500CI-B		9330	3360	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		373	34.3	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	7/25/13	7/25/13	8/26/13	8/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500CI-B		10100	2720	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		299	29.5	n/a	n/a



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

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August 07, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 FED 6H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 16:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H301801-01)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/07/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	1.75	87.3	2.00	5.70	
<b>Total Xylenes*</b>	<b>0.157</b>	0.150	08/07/2013	ND	5.21	86.9	6.00	5.13	
Total BTEX	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142  
Surrogate: Toluene-d8 99.2 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 138 % 65.7-141

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>4240</b>	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	08/02/2013	ND	178	89.1	200	1.03		
<b>DRO &gt;C10-C28</b>	<b>14800</b>	50.0	08/02/2013	ND	186	92.8	200	2.16		

Surrogate: 1-Chlorooctane 89.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 689 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H301801-02)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/07/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	5.21	86.9	6.00	5.13	
Total BTEX	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.2 % 61.3-142  
Surrogate: Toluene-d8 98.5 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 134 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	08/01/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	18900	50.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 89.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 925 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H301801-03)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.8 % 61.3-142  
Surrogate: Toluene-d8 99.2 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 90.5 % 65.2-140  
Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H301801-04)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	0.076	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142  
Surrogate: Toluene-d8 99.3 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 80.9 % 65.2-140  
Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301801-05)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142  
Surrogate: Toluene-d8 97.9 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 100 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	16.2	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 82.4 % 65.2-140  
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H301801-06)**

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/07/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/07/2013	ND	5.21	86.9	6.00	5.13		
Total BTX	<0.300	0.300	08/07/2013	ND						

Surrogate: Dibromofluoromethane 99.8 % 61.3-142  
Surrogate: Toluene-d8 99.3 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 90.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H301801-07)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.25	113	2.00	2.96	
Toluene*	<0.050	0.050	08/07/2013	ND	2.14	107	2.00	3.86	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.08	104	2.00	3.57	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.19	103	6.00	3.61	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 99.2 % 61.3-142  
Surrogate: Toluene-d8 100 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	373	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 97.6 % 65.2-140  
Surrogate: 1-Chlorooctadecane 132 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H301801-08)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.25	113	2.00	2.96	
Toluene*	<0.050	0.050	08/07/2013	ND	2.14	107	2.00	3.86	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.08	104	2.00	3.57	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.19	103	6.00	3.61	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 98.3 % 61.3-142  
Surrogate: Toluene-d8 99.9 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	34.3	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 84.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 110 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H301801-09)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.25	113	2.00	2.96	
Toluene*	<0.050	0.050	08/07/2013	ND	2.14	107	2.00	3.86	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.08	104	2.00	3.57	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.19	103	6.00	3.61	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.0 % 61.3-142  
Surrogate: Toluene-d8 100 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	299	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 89.4 % 65.2-140  
Surrogate: 1-Chlorooctadecane 121 % 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: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/25/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 2' (H301801-10)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.25	113	2.00	2.96	
Toluene*	<0.050	0.050	08/07/2013	ND	2.14	107	2.00	3.86	
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.08	104	2.00	3.57	
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.19	103	6.00	3.61	
Total BTEx	<0.300	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142  
Surrogate: Toluene-d8 98.7 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	29.5	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 92.0 % 65.2-140  
Surrogate: 1-Chlorooctadecane 120 % 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

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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.										BILL TO										ANALYSIS REQUEST									
Project Manager: Cliff Brunson										P.O. #:																			
Address: P.O. Box 805										Company:																			
City: Hobbs										Attn:																			
State: NM Zip: 88241																													
Phone #: 575-397-6388										Address:										5411E									
Fax #: 575-397-0397										City:																			
Project #:										State:										Zip:									
Project Name: Cypress 34 FEB 04										Phone #:																			
Project Location:										Fax #:																			
Sampler Name: George Hernandez										PRESERV										SAMPLING									
FOR LAB USE ONLY																													
Lab I.D. Sample I.D.										(G)RAB OR (C)OMP.																			
										# CONTAINERS																			
										GROUNDWATER																			
										WASTEWATER																			
										SOIL																			
										OIL																			
										SLUDGE																			
										OTHER:																			
										ACID/BASE:																			
										ICE / COOL																			
										OTHER:																			
H301801										DATE										TIME									
1 SPI @ 1'										7-15-13										1025									
2 @ 2'										7-15-13										1035									
3 SP2 @ 1'										7-15-13										1140									
4 @ 2'										7-15-13										1204									
5 SP3 @ 1'										7-15-13										1250									
6 @ 2'										7-15-13										146									
7 SP4 @ 1'										7-15-13										111									
8 @ 2'										7-15-13										200									
9 SP5 @ 1'										7-15-13										250									
10 @ 2'										7-15-13										315									
																				TPH									
																				BTEX									
																				CHLORIDE									

September 03, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 FED 6H

Enclosed are the results of analyses for samples received by the laboratory on 08/27/13 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: HWY 128

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H302059-01)**

BTEX 8260B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 104 % 61.3-142

Surrogate: Toluene-d8 99.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: AR/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	

Surrogate: 1-Chlorooctane 97.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 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: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: HWY 128

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 4' (H302059-02)**

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142  
Surrogate: Toluene-d8 102 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	

Surrogate: 1-Chlorooctane 99.1 % 65.2-140  
Surrogate: 1-Chlorooctadecane 98.6 % 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: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 34 FED 6H  
Project Number: NONE GIVEN  
Project Location: HWY 128

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H302059-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69		

**Sample ID: SP 4 @ 4' (H302059-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69	

**Sample ID: SP 5 @ 3' (H302059-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	7.69	

**Sample ID: SP 5 @ 4' (H302059-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	3.92		

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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

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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



**101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476**

754

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	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Cypress 34 Federal #6H	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-38366

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	34	23S	29E	400	South	400	West	Eddy

Latitude N 32.25503° Longitude W 103.97884°

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	10 bbls	Volume Recovered	0 bbls
Source of Release	Over pressure on flow line	Date and Hour of Occurrence	07/15/2013	Date and Hour of Discovery	07/15/2013
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-NMOCD; Jennifer Van Curen, James Amos- BLM			
By Whom?	Chancey Summers	Date and Hour	07/16/2013 @ 11:15 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.\*

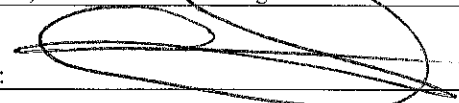
Describe Cause of Problem and Remedial Action Taken.\*

Over pressure on a flow line caused 10 bbls of water to leak onto the ground. No fluids were recovered.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 275' x 50'. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by Environmental Specialist:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: 8-6-13 Phone: (575) 397-8216		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary