

# Closure Report

## Site Description

Site Name:	Cypress 34 Federal #1 CTB
Company:	Oxy Permian Ltd.
Legal Description:	U/L P, Section 34, T23S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.25496° W 103.96596°

## Release Data

Date of Release:	12/21/2013
Type of Release:	Oil
Source of Release:	Valve failed on 3 phase separator causing tanks to spill
Volume of Release:	90 bbls
Volume Recovered:	80 bbls

## Remediation Specifications

Remediation Parameters:	Excavate to a depth of 3 feet around SP1. Excavate to a depth of 1 foot in the areas of SP2, SP3, and SP6. Build a small berm around the area of SP6. Excavate the area around SP5 to a depth of 2 feet. Obtain bottom confirmation samples. Backfill the site with clean soil.	
Remediation Activities:	10/24/2014 to 11/21/2014	
Plan Sent to OCD:	04/01/2014	Meeting between Brunson and Bratcher
OCD Approval of Plan:	04/01/2014	Meeting between Brunson and Bratcher
Plan Sent to BLM:	04/01/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	04/22/2014	Email from J. Van Curen to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 01/08/2014
Final C-141	Signed 12/09/2014
Site Diagram	January 2014
Groundwater Plot	75'-100'
TOPO Maps	January 2014
Lab Summary	02/17/2014-02/19/2014 and 11/13/2014
Lab Analysis	02/17/2014-02/19/2014 and 11/13/2014
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.

12/12/2014

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 #1CTB	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	API No. 30-015-35053 (nearest well)

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	34	23S	29E	460	South	660	East	Eddy

Latitude N 32.25496°    Longitude W 103.96596°

#### NATURE OF RELEASE

Type of Release	Oil	Volume of Release	90 bbls	Volume Recovered	80 bbls
Source of Release	Kimray dump valve failed on 3 phase separator causing tanks to spill over	Date and Hour of Occurrence	12/21/2013	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
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 failure of a Kimray dump valve on a 3 phase separator caused the tanks to spill 90 bbls of oil onto the ground. 80 bbls of oil were recovered via vacuum truck and the valve was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 30' x 90' on location. 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: <a href="mailto:Chancey.Summers@oxy.com">Chancey.Summers@oxy.com</a>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>1-8-14</u> Phone: (575) 397-8216			

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
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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

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Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Cypress 34 Federal #1CTB	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
			API No. 30-015-35053 (nearest well)

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	34	23S	29E	460	South	660	East	Eddy

Latitude N 32.25496° Longitude W 103.96596°

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Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required		If YES, To Whom?		
By Whom?			Date and Hour		
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.\*

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The failure of a Kimray dump valve on a 3 phase separator caused the tanks to spill 90 bbls of oil onto the ground. 80 bbls of oil were recovered via vacuum truck and the valve was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 30' x 90' on location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of the NMOCD on 04/01/2014 and approved by Jennifer Van Curen of the BLM via email on 4/22/2014.

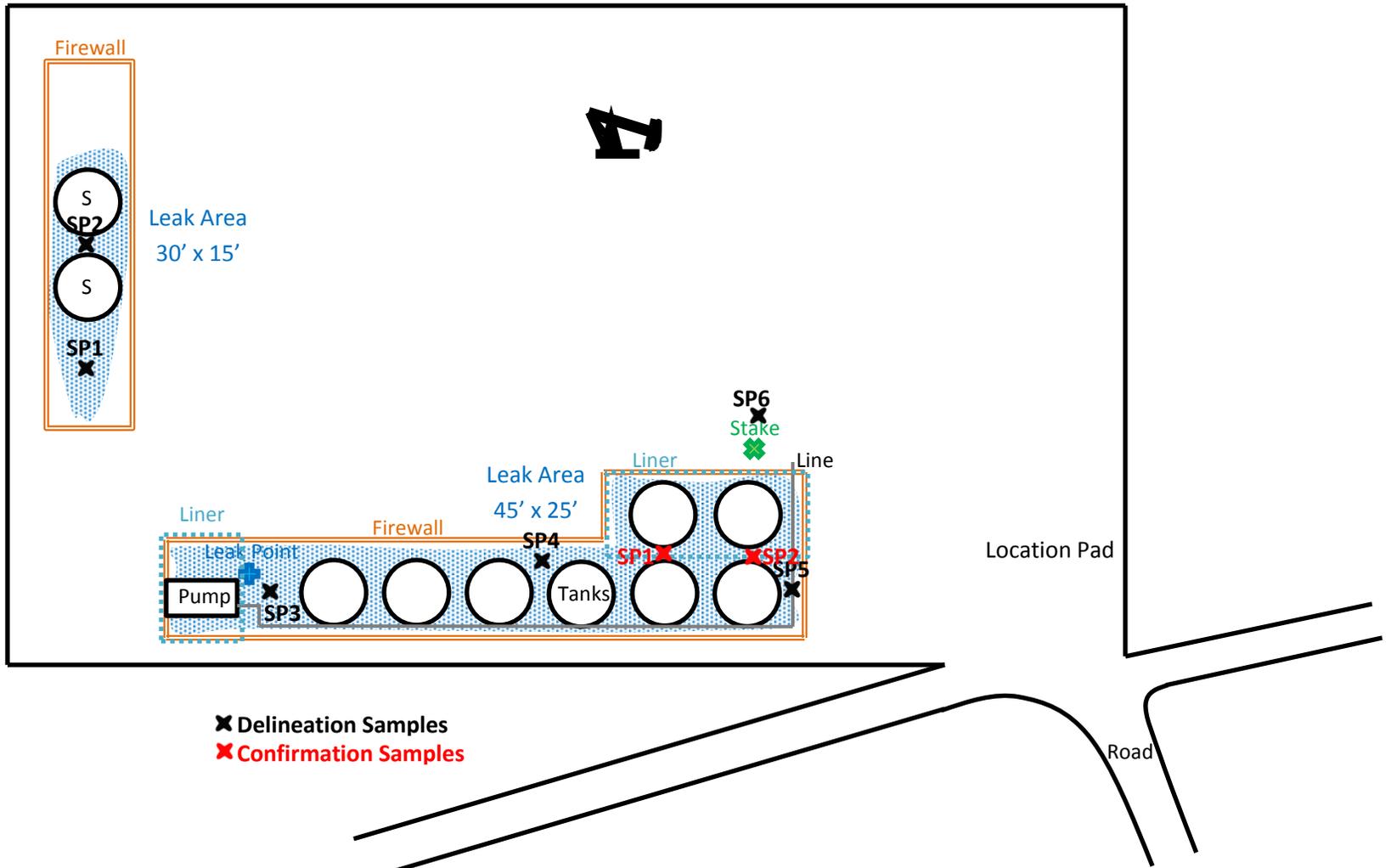
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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 Specialist	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>12-9-14</u> Phone: (575) 397-8216			

\* Attach Additional Sheets If Necessary



Oxy  
Cypress 34 Federal #1 CTB



✕ Delineation Samples  
✕ Confirmation Samples

U/L P, Section 34, T23S, R29E  
Eddy County, NM  
GPS at stake: N 32.25496° W 103.96596°  
API# 30-015-35053 (nearest well)

<b>BBC International, Inc.</b>	
<b>Oxy</b>	
<b>Cypress 34 Federal #1 CTB</b>	
Date: 01/06/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy Cypress 34 Federal #1 CTB

County  
Eddy County

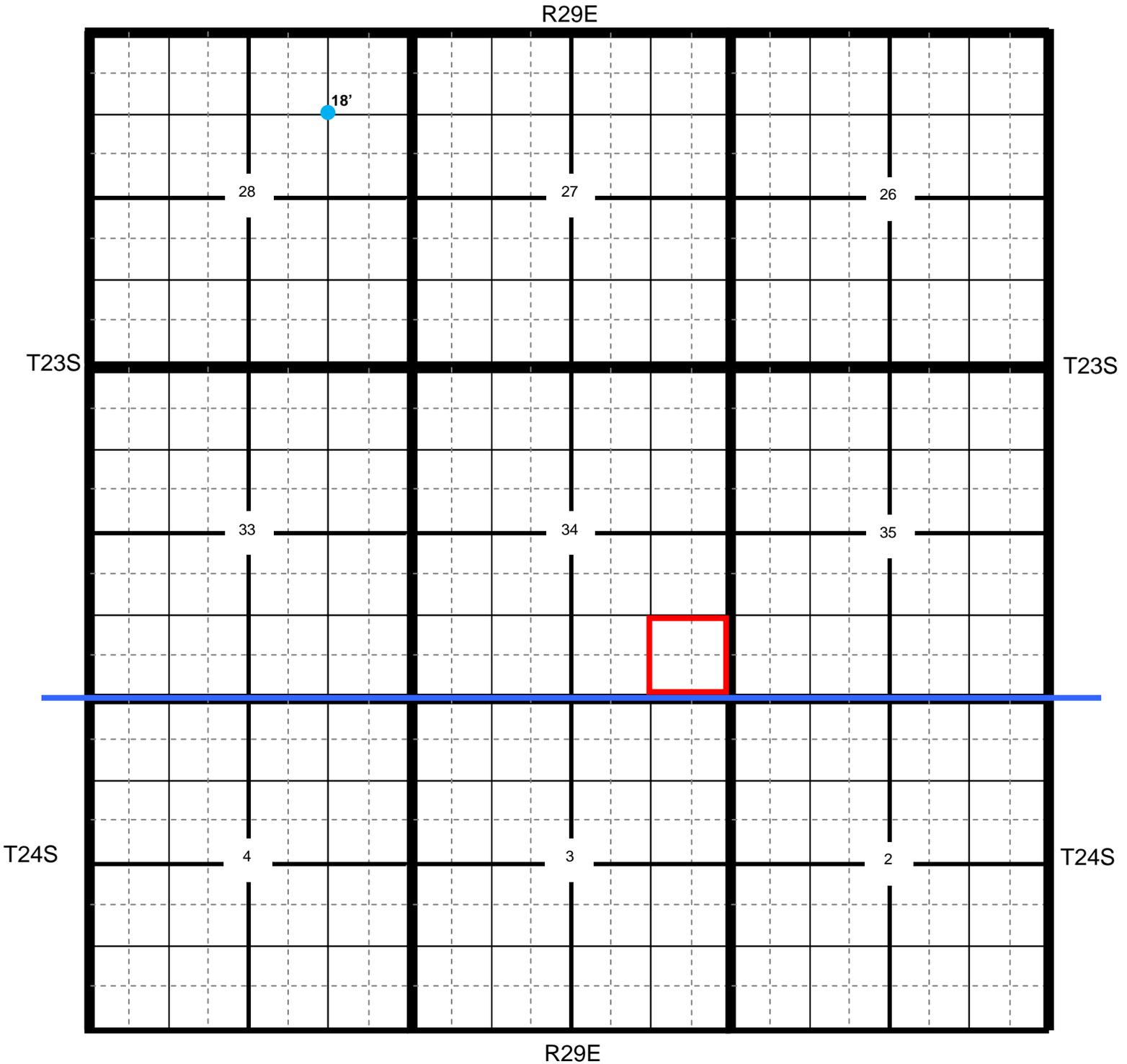
Unit Letter  
P

Section  
34

Township  
23S

Range  
29E

Trend Map 75'-100'



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Cypress 34 Federal #1 CTB

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

Trend Map 75'-100'

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	<b>SE/SE</b>
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

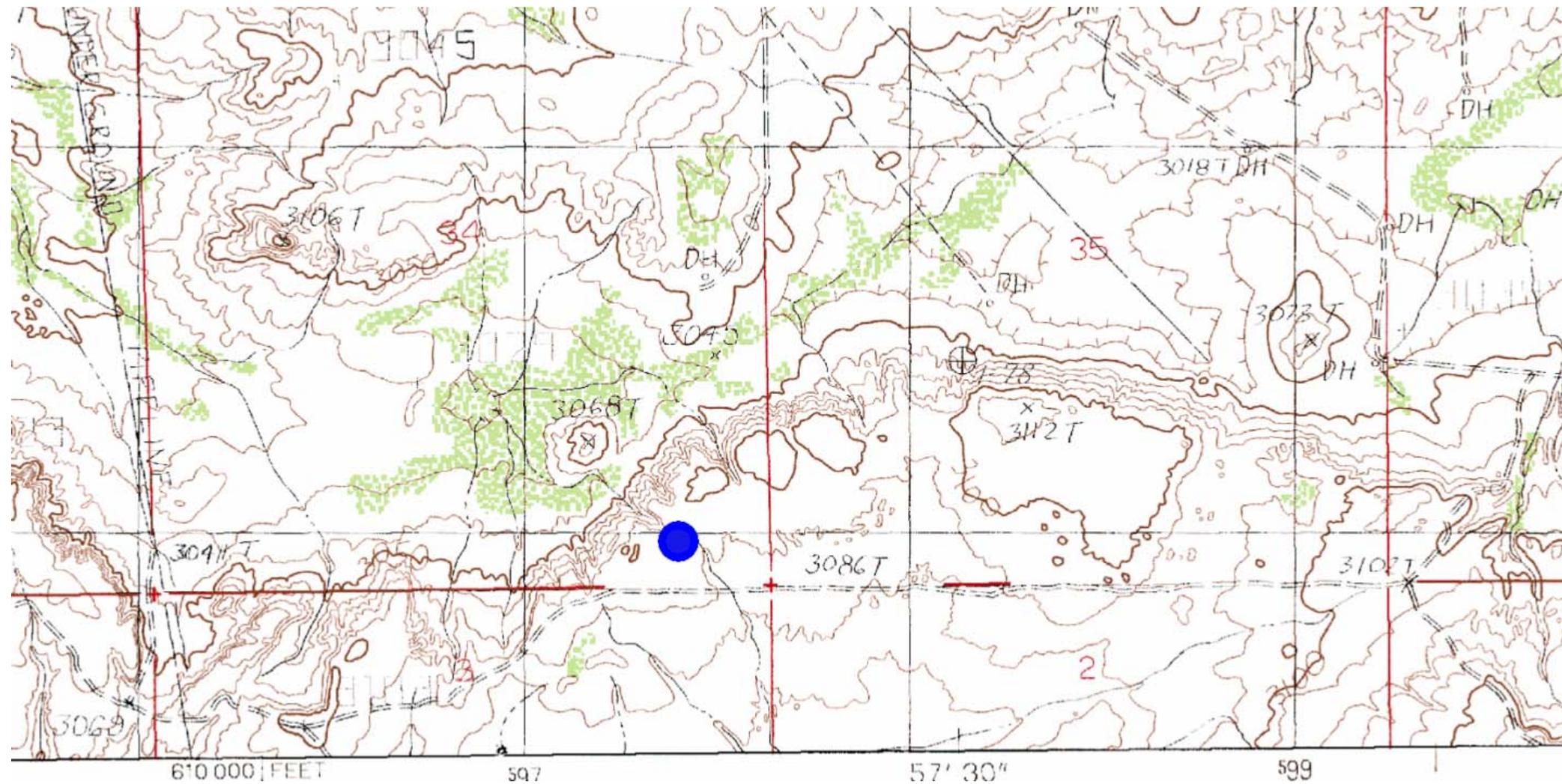
3

4



# Oxy

## Cypress 34 Federal #1 CTB



**Laboratory Analytical Results Summary**  
**Cypress 34 Federal #1 CTB**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	2/17/14	2/17/14	2/17/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050
Toluene	BTEX 8021B		<b>8.96</b>	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<b>8.36</b>	<b>0.123</b>	<0.050
Total Xylenes	BTEX 8021B		<b>50.4</b>	<b>0.804</b>	<0.150
Total BTEX	BTEX 8021B		<b>67.7</b>	<b>0.926</b>	<0.300
Chloride	SM4500Cl-B		<b>16</b>	<b>16</b>	<b>16</b>
GRO	TPH 8015M		<b>3140</b>	<b>35.7</b>	<10.0
DRO	TPH 8015M		<b>16000</b>	<b>2250</b>	<b>52.8</b>

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'
Analyte	Method	Date	2/17/14	2/17/14	2/17/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>544</b>	<b>912</b>	<b>112</b>
GRO	TPH 8015M		<b>13.4</b>	<10.0	<10.0
DRO	TPH 8015M		<b>705</b>	<b>21.5</b>	<10.0

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	2/18/14	2/18/14	2/18/14	2/18/14
			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		<0.150	<0.150	<0.150	<b>0.197</b>
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>1310</b>	<b>832</b>	<b>416</b>	<b>64</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>203</b>	<b>68.1</b>	<b>169</b>	<b>687</b>

**Laboratory Analytical Results Summary**  
**Cypress 34 Federal #1 CTB**

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 6'
Analyte	Method	Date	2/18/14	2/18/14	2/18/14	2/18/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<b>0.620</b>	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<b>0.631</b>	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<b>5.74</b>	<0.150	<0.150	<b>0.185</b>
Total BTEX	BTEX 8021B		<b>6.99</b>	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>1260</b>	<b>672</b>	<b>368</b>	<b>16</b>
GRO	TPH 8015M		<b>486</b>	<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>3620</b>	<b>149</b>	<b>464</b>	<b>524</b>

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 6'
Analyte	Method	Date	2/18/14	2/18/14	2/18/14	2/18/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<b>0.400</b>	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.600	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>1550</b>	<b>688</b>	<b>336</b>	<b>32</b>
GRO	TPH 8015M		<b>23.1</b>	<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>427</b>	<b>180</b>	<b>333</b>	<b>559</b>

		Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	2/19/14	2/19/14	2/19/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>3600</b>	<b>272</b>	<b>32</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<b>369</b>

**Laboratory Analytical Results Summary**  
**Cypress 34 Federal #1 CTB**

		Sample	SIDEWALL #1	SIDEWALL #2
Analyte	Method	Date	11/13/14	11/13/14
			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>48</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0



February 28, 2014

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

RE: CYPRESS 34 FEDERAL #1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/20/14 16:45.

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, flowing "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:	02/20/2014	Sampling Date:	02/17/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 1 @ 1' (H400524-01)**

BTEX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/28/2014	ND	1.92	95.8	2.00	2.11	
<b>Toluene*</b>	<b>8.96</b>	0.500	02/28/2014	ND	1.99	99.5	2.00	1.91	
<b>Ethylbenzene*</b>	<b>8.36</b>	0.500	02/28/2014	ND	1.86	93.0	2.00	2.50	
<b>Total Xylenes*</b>	<b>50.4</b>	1.50	02/28/2014	ND	5.63	93.8	6.00	2.40	
<b>Total BTEX</b>	<b>67.7</b>	3.00	02/28/2014	ND					

Surrogate: Dibromofluoromethane 99.7 % 61.3-142

Surrogate: Toluene-d8 112 % 71.3-129

Surrogate: 4-Bromofluorobenzene 295 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	02/27/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>3140</b>	50.0	02/25/2014	ND	208	104	200	0.0943	
<b>DRO &gt;C10-C28</b>	<b>16000</b>	50.0	02/25/2014	ND	209	104	200	3.92	

Surrogate: 1-Chlorooctane 189 % 65.2-140

Surrogate: 1-Chlorooctadecane 438 % 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:	02/20/2014	Sampling Date:	02/17/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 1 @ 3' (H400524-02)**

BTEX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/28/2014	ND	1.99	99.5	2.00	1.91	
<b>Ethylbenzene*</b>	<b>0.123</b>	0.050	02/28/2014	ND	1.86	93.0	2.00	2.50	
<b>Total Xylenes*</b>	<b>0.804</b>	0.150	02/28/2014	ND	5.63	93.8	6.00	2.40	
<b>Total BTEX</b>	<b>0.926</b>	0.300	02/28/2014	ND					

Surrogate: Dibromofluoromethane 99.1 % 61.3-142

Surrogate: Toluene-d8 98.5 % 71.3-129

Surrogate: 4-Bromofluorobenzene 145 % 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>16.0</b>	16.0	02/27/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>35.7</b>	10.0	02/25/2014	ND	208	104	200	0.0943	
<b>DRO &gt;C10-C28</b>	<b>2250</b>	10.0	02/25/2014	ND	209	104	200	3.92	

Surrogate: 1-Chlorooctane 80.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 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:	02/20/2014	Sampling Date:	02/17/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 1 @ 4' (H400524-03)**

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	02/27/2014	ND	1.92	95.8	2.00	2.11		
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 96.8 % 61.3-142

Surrogate: Toluene-d8 101 % 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	
<b>Chloride</b>	<b>16.0</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/25/2014	ND	208	104	200	0.0943		
<b>DRO &gt;C10-C28</b>	<b>52.8</b>	10.0	02/25/2014	ND	209	104	200	3.92		

Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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\*=Accredited Analyte

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 Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/17/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 2 @ 1' (H400524-04)**

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	02/27/2014	ND	1.92	95.8	2.00	2.11		
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 112 % 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>544</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>13.4</b>	10.0	02/25/2014	ND	208	104	200	0.0943		
<b>DRO &gt;C10-C28</b>	<b>705</b>	10.0	02/25/2014	ND	209	104	200	3.92		

Surrogate: 1-Chlorooctane 76.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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 Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/17/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 2 @ 3' (H400524-05)**

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	02/27/2014	ND	1.92	95.8	2.00	2.11		
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 97.8 % 61.3-142

Surrogate: Toluene-d8 102 % 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	
<b>Chloride</b>	<b>912</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/25/2014	ND	208	104	200	0.0943		
<b>DRO &gt;C10-C28</b>	<b>21.5</b>	10.0	02/25/2014	ND	209	104	200	3.92		

Surrogate: 1-Chlorooctane 76.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.6 % 63.6-154

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 Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/17/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 2 @ 5' (H400524-06)**

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	02/27/2014	ND	1.92	95.8	2.00	2.11		
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 95.6 % 61.3-142

Surrogate: Toluene-d8 100 % 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	
<b>Chloride</b>	<b>112</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/25/2014	ND	208	104	200	0.0943		
DRO >C10-C28	<10.0	10.0	02/25/2014	ND	209	104	200	3.92		

Surrogate: 1-Chlorooctane 74.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.0 % 63.6-154

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Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 3 @ 1' (H400524-07)**

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	02/27/2014	ND	1.92	95.8	2.00	2.11		
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 96.1 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 118 % 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>1310</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/25/2014	ND	208	104	200	0.0943		
<b>DRO &gt;C10-C28</b>	<b>203</b>	10.0	02/25/2014	ND	209	104	200	3.92		

Surrogate: 1-Chlorooctane 92.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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 Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 3 @ 3' (H400524-08)**

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	02/27/2014	ND	1.92	95.8	2.00	2.11		
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 99.7 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 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>832</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/25/2014	ND	208	104	200	0.0943		
<b>DRO &gt;C10-C28</b>	<b>68.1</b>	10.0	02/25/2014	ND	209	104	200	3.92		

Surrogate: 1-Chlorooctane 94.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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 Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 3 @ 5' (H400524-09)**

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	02/27/2014	ND	1.92	95.8	2.00	2.11		
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 96.6 % 61.3-142

Surrogate: Toluene-d8 103 % 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	
<b>Chloride</b>	<b>416</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/25/2014	ND	208	104	200	0.0943		
<b>DRO &gt;C10-C28</b>	<b>169</b>	10.0	02/25/2014	ND	209	104	200	3.92		

Surrogate: 1-Chlorooctane 92.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 3 @ 6' (H400524-10)**

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	02/27/2014	ND	1.92	95.8	2.00	2.11		
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50		
<b>Total Xylenes*</b>	<b>0.197</b>	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 99.1 % 61.3-142

Surrogate: Toluene-d8 98.6 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 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>64.0</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
<b>DRO &gt;C10-C28</b>	<b>687</b>	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 91.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 144 % 63.6-154

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 Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 4 @ 1' (H400524-11)**

BTEX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/27/2014	ND	1.95	97.7	2.00	2.03	
<b>Toluene*</b>	<b>0.620</b>	0.200	02/27/2014	ND	1.98	99.0	2.00	3.42	
<b>Ethylbenzene*</b>	<b>0.631</b>	0.200	02/27/2014	ND	1.85	92.7	2.00	3.29	
<b>Total Xylenes*</b>	<b>5.74</b>	0.600	02/27/2014	ND	5.60	93.4	6.00	2.69	
<b>Total BTEX</b>	<b>6.99</b>	1.20	02/27/2014	ND					

Surrogate: Dibromofluoromethane 96.7 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 153 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1260</b>	16.0	02/27/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>486</b>	10.0	02/26/2014	ND	204	102	200	5.45	
<b>DRO &gt;C10-C28</b>	<b>3620</b>	10.0	02/26/2014	ND	199	99.7	200	2.11	

Surrogate: 1-Chlorooctane 130 % 65.2-140

Surrogate: 1-Chlorooctadecane 158 % 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:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 4 @ 3' (H400524-12)**

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	02/27/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 98.3 % 61.3-142

Surrogate: Toluene-d8 99.4 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 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>672</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
<b>DRO &gt;C10-C28</b>	<b>149</b>	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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

Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 4 @ 5' (H400524-13)**

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	02/27/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 94.4 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 109 % 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>368</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
<b>DRO &gt;C10-C28</b>	<b>464</b>	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 95.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 4 @ 6' (H400524-14)**

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	02/27/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29		
<b>Total Xylenes*</b>	<b>0.185</b>	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 94.3 % 61.3-142

Surrogate: Toluene-d8 99.3 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 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>16.0</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
<b>DRO &gt;C10-C28</b>	<b>524</b>	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 97.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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**Analytical Results For:**

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 Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 5 @ 1' (H400524-15)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	02/27/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.100	0.100	02/27/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.100	0.100	02/27/2014	ND	1.85	92.7	2.00	3.29		
<b>Total Xylenes*</b>	<b>0.400</b>	0.300	02/27/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.600	0.600	02/27/2014	ND						

Surrogate: Dibromofluoromethane 94.5 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 118 % 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>1550</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>23.1</b>	10.0	02/27/2014	ND	204	102	200	5.45		
<b>DRO &gt;C10-C28</b>	<b>427</b>	10.0	02/27/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 96.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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

Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 5 @ 3' (H400524-16)**

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	02/27/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 96.4 % 61.3-142

Surrogate: Toluene-d8 98.5 % 71.3-129

Surrogate: 4-Bromofluorobenzene 108 % 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>688</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
<b>DRO &gt;C10-C28</b>	<b>180</b>	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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**Analytical Results For:**

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

Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 5 @ 5' (H400524-17)**

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	02/27/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 95.7 % 61.3-142

Surrogate: Toluene-d8 99.7 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 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>336</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
<b>DRO &gt;C10-C28</b>	<b>333</b>	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 95.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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 Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/18/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 5 @ 6' (H400524-18)**

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	02/27/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/27/2014	ND						

Surrogate: Dibromofluoromethane 98.6 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 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>32.0</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
<b>DRO &gt;C10-C28</b>	<b>559</b>	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 93.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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 Fax To: (575) 397-0397

Received:	02/20/2014	Sampling Date:	02/19/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 6 @ 1' (H400524-19)**

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	02/28/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/28/2014	ND						

Surrogate: Dibromofluoromethane 97.9 % 61.3-142

Surrogate: Toluene-d8 99.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 97.8 % 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>3600</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.5 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	02/20/2014	Sampling Date:	02/19/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 6 @ 3' (H400524-20)**

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	02/28/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/28/2014	ND						

Surrogate: Dibromofluoromethane 96.5 % 61.3-142

Surrogate: Toluene-d8 102 % 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	
<b>Chloride</b>	<b>272</b>	16.0	02/27/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 91.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.7 % 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:	02/20/2014	Sampling Date:	02/19/2014
Reported:	02/28/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

**Sample ID: SP 6 @ 4' (H400524-21)**

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	02/28/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	<0.300	0.300	02/28/2014	ND						

Surrogate: Dibromofluoromethane 97.4 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 97.3 % 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>32.0</b>	16.0	02/27/2014	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	02/26/2014	ND	204	102	200	5.45		
<b>DRO &gt;C10-C28</b>	<b>369</b>	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane 94.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 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**

1/2

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P. O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH	BTET	CL-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H40524																
1	SP1 @ 1	G	1	X		X					2-17	9:30	X	X	X	
2	@ 3	G	1	X		X					2-17	10:38	X	X	X	
3	@ 4	G	1	X		X					2-17	11:12	X	X	X	
4	SP2 @ 1	G	1	X		X					2-17	1:30	X	X	X	
5	@ 3	G	1	X		X					2-17	2:31	X	X	X	
6	@ 5	G	1	X		X					2-17	2:22	X	X	X	
7	SP3 @ 1	G	1	X		X					2-18	8:58	X	X	X	
8	@ 3	G	1	X		X					2-18	1:00	X	X	X	
9	@ 5	G	1	X		X					2-18	11:00	X	X	X	
10	@ 6	G	1	X		X					2-18	11:15	X	X	X	

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Relinquished By: *[Signature]* Date: 2-20-14  
 Received By: *[Signature]* Date: 4-14-15  
 Time: 4:45  
 Delivered By: (Circle One)  UPS  Bus  Other: 5:10  
 Sample Condition:  Intact  Cool  Yes  No

Checked By: *[Signature]*  
 Phone Result:  Yes  No  
 Fax Result:  Yes  No  
 Add'l Phone #: \_\_\_\_\_  
 Add'l Fax #: \_\_\_\_\_

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

#54



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

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

2/13

Company Name: BBC International, Inc. **BILL TO** ANALYSIS REQUEST

Project Manager: Cliff Brunson P.O. #:

Address: P.O. Box 805 Company:

City: Hobbs State: NIM Zip: 88241 Attn:

Phone #: 575-397-6388 Fax #: 575-397-0397 Address: *Drule*

Project #: Project Owner: *DRY* City: State: Zip:

Project Name: *Cypress 34 Federal Hill CTB* State: Zip:

Project Location: *Section 120* Phone #:

Sampler Name: *16ff* Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	CL
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HYD0524														
11	SP101	G	1	X						2-18	1142	X	X	X
12	03	G	1	X						2-18	1259	X	X	X
13	05	G	1	X						2-18	130	X	X	X
14	06	G	1	X						2-18	150	X	X	X
15	SP501	G	1	X						2-18	254	X	X	X
16	03	G	1	X						2-18	310	X	X	X
17	05	G	1	X						2-18	330	X	X	X
18	06	G	1	X						2-18	343	X	X	X
19	SP601	G	1	X						2-19	933	X	X	X
20	03	G	1	X						2-19	1039	X	X	X

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Relinquished By: *[Signature]* Date: *2-20-14* Received By: *Cliff Brunson* Time: *4:45*

Relinquished By: *[Signature]* Date: Time: Received By: *[Signature]*

Delivered By: (Circle One) *UPS* Sample Condition:  Cool  Intact  Yes  No  Yes  No

Checked By: *[Signature]* Phone Result:  Yes  No Add'l Phone #: *516* Fax Result:  Yes  No Add'l Fax #: *516*

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#54



November 17, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 #1

Enclosed are the results of analyses for samples received by the laboratory on 11/14/14 16:25.

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,



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:	11/14/2014	Sampling Date:	11/13/2014
Reported:	11/17/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAW HIDE ROAD		

**Sample ID: SIDEWALL #1 (H403528-01)**

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	11/17/2014	ND	1.83	91.3	2.00	6.10		
Toluene*	<0.050	0.050	11/17/2014	ND	1.77	88.4	2.00	5.96		
Ethylbenzene*	<0.050	0.050	11/17/2014	ND	1.71	85.3	2.00	7.07		
Total Xylenes*	<0.150	0.150	11/17/2014	ND	5.12	85.3	6.00	7.69		
Total BTEX	<0.300	0.300	11/17/2014	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 61-154*

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>48.0</b>	16.0	11/17/2014	ND	416	104	400	3.92		

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	11/17/2014	ND	190	95.2	200	0.694		
DRO >C10-C28	<10.0	10.0	11/17/2014	ND	191	95.5	200	0.179		

*Surrogate: 1-Chlorooctane 111 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 117 % 52.1-176*

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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:	11/14/2014	Sampling Date:	11/13/2014
Reported:	11/17/2014	Sampling Type:	Soil
Project Name:	CYPRESS 34 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAW HIDE ROAD		

**Sample ID: SIDEWALL #2 (H403528-02)**

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	11/17/2014	ND	1.83	91.3	2.00	6.10		
Toluene*	<0.050	0.050	11/17/2014	ND	1.77	88.4	2.00	5.96		
Ethylbenzene*	<0.050	0.050	11/17/2014	ND	1.71	85.3	2.00	7.07		
Total Xylenes*	<0.150	0.150	11/17/2014	ND	5.12	85.3	6.00	7.69		
Total BTEX	<0.300	0.300	11/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	11/17/2014	ND	416	104	400	3.92		

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	11/17/2014	ND	190	95.2	200	0.694		
DRO >C10-C28	<10.0	10.0	11/17/2014	ND	191	95.5	200	0.179		

Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 127 % 52.1-176

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



---

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**

*11/11*

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
 Project Manager: Cliff Brunson  
 Address: P.O. Box 805  
 City: Hobbs  
 State: NM Zip: 88241  
 Phone #: 575-397-6388 Fax #: 575-397-0397  
 Project #: \_\_\_\_\_ Project Owner: *OKY*  
 Project Name: *APRESS 34 #1*  
 Project Location: *Raw Hide Rd*  
 Sampler Name: *Pogey*

P.O. #: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.			
<i>H403528</i>	<i>SIDEWALL # 1</i>	<i>(G)</i>	<i>1</i>								<i>11/13/14</i>	<i>1:00</i>	<i>TPH</i>
	<i>SIDEWALL # 2</i>	<i>(G)</i>	<i>1</i>								<i>11/13/14</i>	<i>1:20</i>	<i>CL</i>
													<i>BTEX</i>

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Relinquished By: *Cliff Brunson* Date: *11/14/14*  
 Relinquished By: *Cliff Brunson* Date: *11/25*  
 Received By: *Cliff Brunson*  
 Delivered By: (Circle One)  UPS  Bus  Other: *5.80*  
 Sample Condition:  Cool  Intact  Yes  No  
 Checked By: *[Signature]*

Phone Result:  Yes  No  
 Fax Result:  Yes  No  
 Add'l Phone #: \_\_\_\_\_  
 Add'l Fax #: \_\_\_\_\_  
 REMARKS: *PUSH!*

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476  
*#54*

## Jennifer Gilkey

---

**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Sunday, April 06, 2014 4:50 PM  
**To:** Mike Bratcher  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Cypress 34 Federal #1 CTB-Remediation Plan  
**Attachments:** Remediation Packet, Cypress 34 Federal #1 CTB.pdf

Mike,

This e-mail is to confirm our conversation on April 1, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 2 to 3 feet or as practicable in the entire leak areas as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
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:** Tuesday, April 22, 2014 6:55 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: Oxy-Remediation Plans Approval Status

EC Hill B Fed #20 --Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: SP1 is 3' and SP2 & SP3 is 6" minimal removal. Berm well pad to prevent fluids from leaving the well pad. Pay close attention to not disturb old drilling pit.

Cypress 34 Fed #1 -- Received plan in on 4-6-14 and approved on 4-16-14 after visiting with CJ. Stips are to repair cattle guard and fence along lease road, correct erosion issue in the NW, need sidewall samples from area to lined to unlined behind two tanks, Lease number missing on well sign, SP1 min is 3', SP2 is 1' minimal --sample to be sure TPH is less than 1000. SP3 & SP6 is 1' removal and SP5 is 2' removal. SP6 should be lined with a small berm to catch load line spillage from trucks. **Samples from confirmations must be sent in.**

Cedar Canyon 28 Fed #4 -- Received plan on 4-6-14 and approved plan on 4-16-14 after reviewing with CJ. Excavating 2' in areas of SP1 & SP2, and 1' removal from SP3. The area at SP1 & SP2 will have a clay liner used. Discussed plan with CJ and let him know that since there are hydrocarbons around the heater treater and separator that the clay will not be effective due to the hydrocarbons breaking down the clay rather quickly. If spill occurs in that area, it will still need to be delineated.

Patton 17 Fed #6 -- Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: Would allow surface scrape on well pad. There is no need to dig into pit with low levels of chlorides. Pit needs to be capped anyway. Recommend no or little digging, capping and topsoil.

MLMU #246 -- Plan received for remediation on 4-5-14 and approved after reviewing with CJ on 4-16-14. Sidewalls need to be taken for horizontal cleanup. **Confirmation samples need to be sent in.**

Bradley 13 Fed Battery -- Received plan in for remediation of spill on 4-6-14 and approved on 4-16-14 after visiting with CJ. Need to delineate north of tank. Tank needs to have integrity test completed and repairs made or replacement, remediate the release around the pumpjack and north to the pit area. No plan necessary, just complete the work for this area and test to be sure that contaminants have been removed. Be careful to not dig into pit contents. Remove hot material and cap if necessary. Deep bury or haul off the cement slab. **Confirmation samples from wellhead and pit area will need to be sent in.**

Confirmation samples or delineation samples are very important not only to the BLM but also the operator. This is what will determine the plan of action in reclamation of the plugged well. Without that information, massive mistakes will be (have been) made, costing hundreds of thousands in remediation of plugged wells. Strategic thinking is priceless.

Jennifer

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"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, Apr 21, 2014 at 4:02 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

I am following up on several remediation plans that I sent to you for approval a couple of weeks ago. Could you give me an update status on the following Oxy sites:

- EC Hill B Fed #20
- Cypress 34 Fed #1
- Cedar Canyon 28 Fed #4
- Patton 17 Fed #6
- MLM #246
- Bradley 13 Fed Battery

Thanks, Cliff

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