



## **OXY – CYPRESS 34 FEDERAL #1 CTB**

### **REMEDIATION PLAN**

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OXY will excavate the spill areas as depicted on the following site diagram. There are two spills at this site. The 1/5/16 spill will be excavated to a depth of 1 foot. Additional sampling will be conducted to delineate the chloride and TPH impact near SP3 to find as close to 250 ppm chloride and 1,000 ppm TPH as practicable. This site will be deferred until the battery is closed. The excavated area will be backfilled with clean soil.

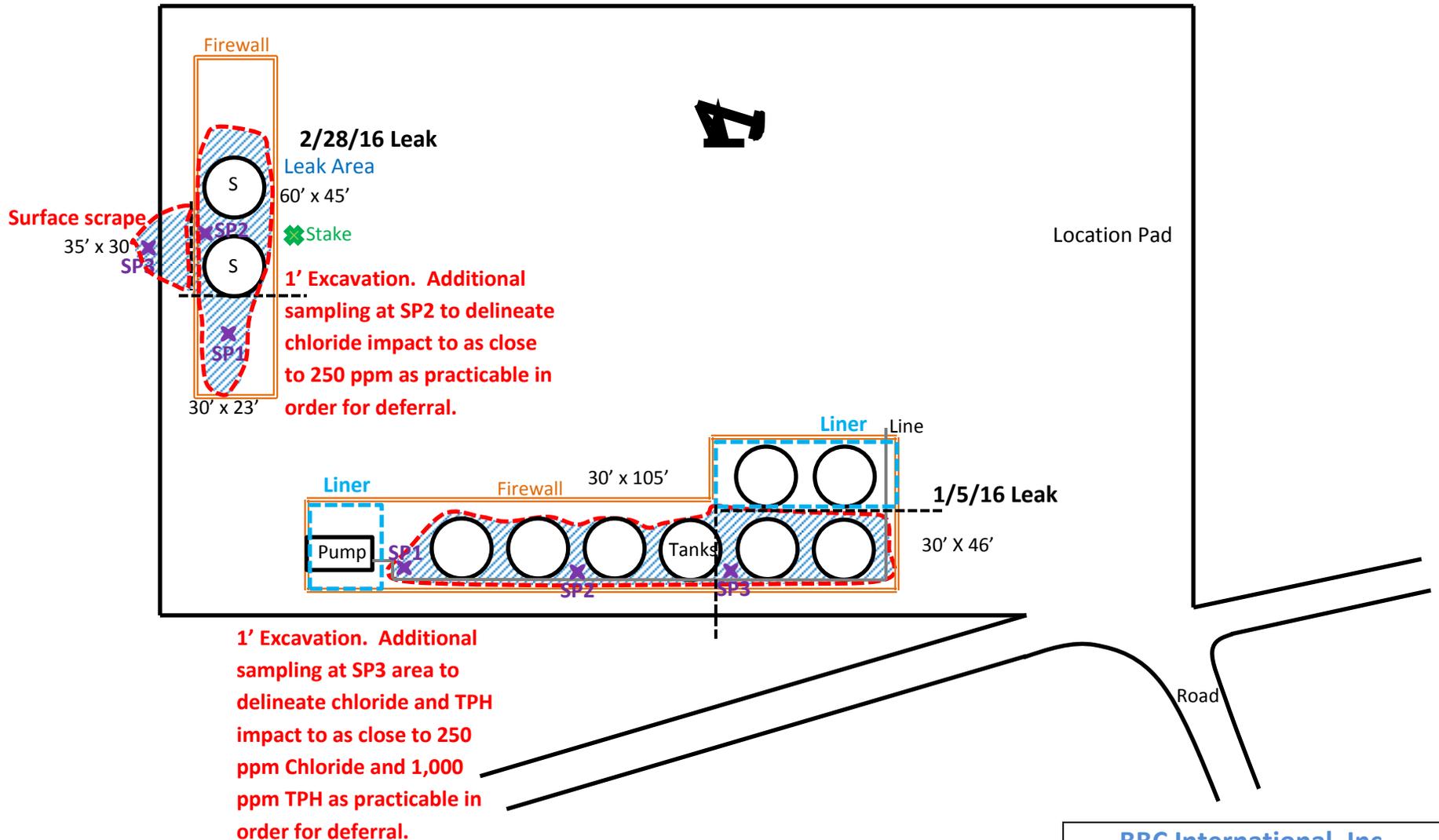
The 2/28/16 spill will be excavated to a depth of 1 foot. Additional sampling will be conducted to delineate the chloride impact near SP2 to find as close to 250 ppm chloride as practicable. This site will be deferred until the battery is closed. The excavated area will be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Oxy

### Cypress 34 Federal #1 CTB (1/5/16 and 2/28/16)



U/L P, Section 34, T23S, R29E

Eddy County, NM

GPS at stake: N 32.25508° W 103.96647°

API# 30-015-35053

**BBC International, Inc.**

**Oxy**

**Cypress 34 Federal #1 CTB**

Date: 03/08/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



# Groundwater Plot

## Oxy Cypress 34 Federal #1 CTB

County  
Eddy County

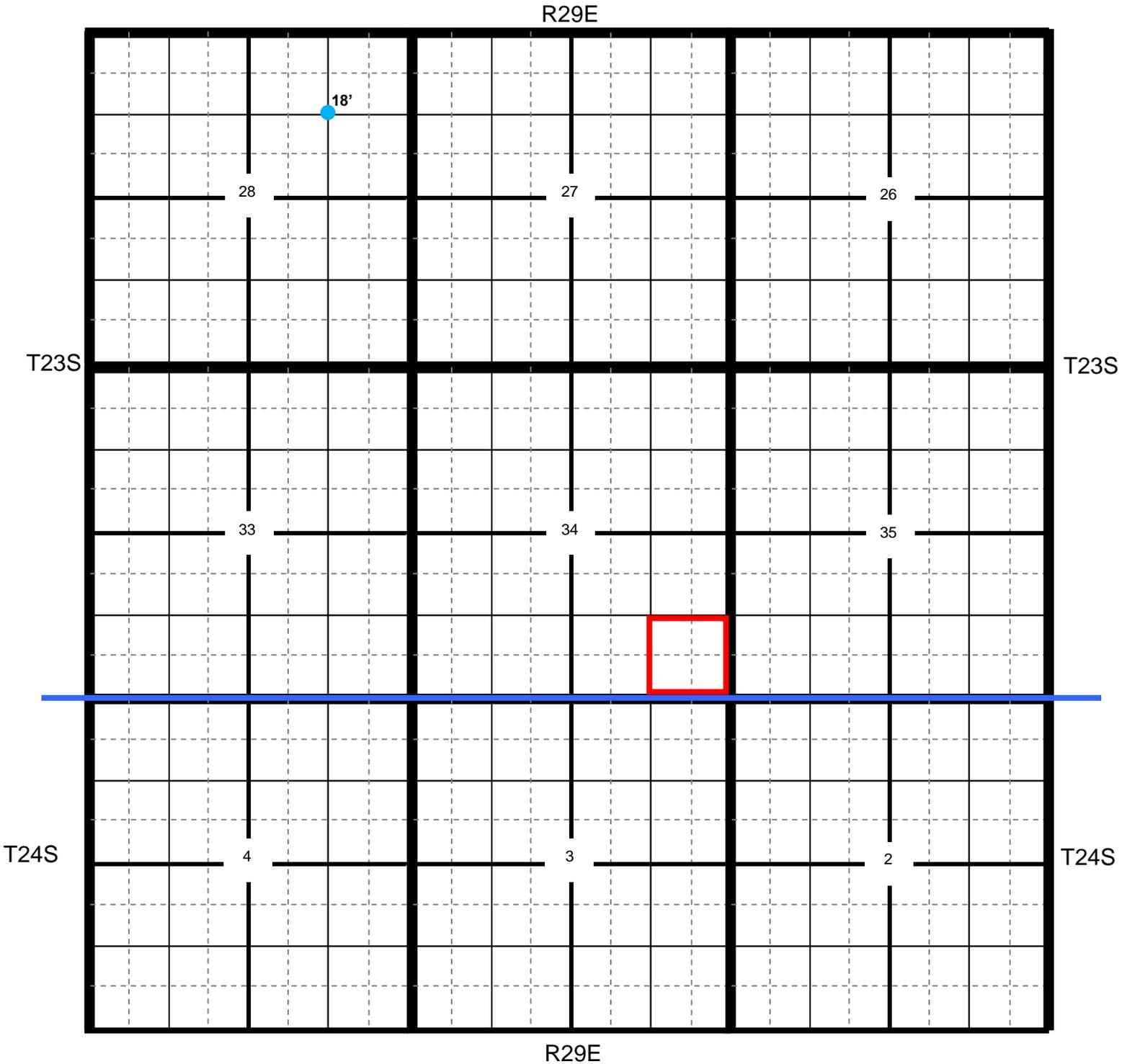
Unit Letter  
P

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

**Laboratory Analytical Results Summary  
Cypress 34 Federal #1 CTB (1/5/16 leak)**

		Sample	SP1 @ 1'
Analyte	Method	Date	3/8/16
			mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.100
<b>Toluene</b>	BTEX 8021B		<b>0.512</b>
<b>Ethylbenzene</b>	BTEX 8021B		0.1
<b>Total Xylenes</b>	BTEX 8021B		<b>5.49</b>
<b>Total BTEX</b>	BTEX 8021B		<b>6</b>
<b>Chloride</b>	SM4500Cl-B		<b>8000</b>
<b>GRO</b>	TPH 8015M		<b>223</b>
<b>DRO</b>	TPH 8015M		<b>3690</b>

		Sample	SP2 @ 1'
Analyte	Method	Date	3/8/16
			mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.62</b>
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>6.13</b>
<b>Total BTEX</b>	BTEX 8021B		<b>6.75</b>
<b>Chloride</b>	SM4500Cl-B		<b>6930</b>
<b>GRO</b>	TPH 8015M		<b>107</b>
<b>DRO</b>	TPH 8015M		<b>2130</b>

		Sample	SP3 @ 1'
Analyte	Method	Date	3/8/16
			mg/Kg
<b>Benzene</b>	BTEX 8021B		<1.00
<b>Toluene</b>	BTEX 8021B		<b>0.323</b>
<b>Ethylbenzene</b>	BTEX 8021B		<0.100
<b>Total Xylenes</b>	BTEX 8021B		<b>4.66</b>
<b>Total BTEX</b>	BTEX 8021B		<b>4.98</b>
<b>Chloride</b>	SM4500Cl-B		<b>5730</b>
<b>GRO</b>	TPH 8015M		<b>190</b>
<b>DRO</b>	TPH 8015M		<b>3270</b>

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

		Sample	SP1 @ 1'
Analyte	Method	Date	4/11/16
			mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.597</b>
<b>Total BTEX</b>	BTEX 8021B		<b>0.63</b>
<b>Chloride</b>	SM4500Cl-B		<b>6130</b>
<b>GRO</b>	TPH 8015M		<b>30.4</b>
<b>DRO</b>	TPH 8015M		<b>1730</b>

		Sample	SP2 @ 2'
Analyte	Method	Date	4/11/16
			mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.061</b>
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.68</b>
<b>Total BTEX</b>	BTEX 8021B		<b>0.741</b>
<b>Chloride</b>	SM4500Cl-B		<b>3720</b>
<b>GRO</b>	TPH 8015M		<b>135</b>
<b>DRO</b>	TPH 8015M		<b>7180</b>

		Sample	SP3 @ 2'
Analyte	Method	Date	4/11/16
			mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.056</b>
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.748</b>
<b>Total BTEX</b>	BTEX 8021B		<b>0.803</b>
<b>Chloride</b>	SM4500Cl-B		<b>4400</b>
<b>GRO</b>	TPH 8015M		<b>123</b>
<b>DRO</b>	TPH 8015M		<b>6430</b>

**Laboratory Analytical Results Summary  
Cypress 34 Federal #1 CTB (2/28/16 leak)**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	3/7/16	3/7/16	3/7/16	3/8/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		0.071	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>336</b>	<b>880</b>	<b>1840</b>	<b>2360</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<b>20.7</b>	<b>165</b>	<b>104</b>

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	3/7/16	3/7/16	3/7/16	3/8/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<b>0.051</b>
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>416</b>	<b>768</b>	<b>688</b>	<b>3040</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<b>12.5</b>
<b>DRO</b>	TPH 8015M		<b>15.2</b>	<10.0	<10.0	<b>374</b>

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	3/7/16	3/7/16
			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		<16.0	<16.0
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>148</b>	<b>151</b>



March 17, 2016

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 03/11/16 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	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' (H600542-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/17/2016	ND	1.97	98.6	2.00	1.09	
<b>Toluene*</b>	<b>0.512</b>	0.100	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.100	0.100	03/17/2016	ND	1.66	83.1	2.00	2.82	
<b>Total Xylenes*</b>	<b>5.49</b>	0.300	03/17/2016	ND	5.13	85.5	6.00	2.14	
<b>Total BTEX</b>	<b>6.00</b>	0.600	03/17/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>8000</b>	16.0	03/17/2016	ND	400	100	400	3.92	

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>223</b>	10.0	03/15/2016	ND	219	109	200	10.7	
<b>DRO &gt;C10-C28</b>	<b>3690</b>	10.0	03/15/2016	ND	239	119	200	13.3	

*Surrogate: 1-Chlorooctane 109 % 35-147*
*Surrogate: 1-Chlorooctadecane 129 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	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' (H600542-02)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
<b>Toluene*</b>	<b>0.620</b>	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
<b>Total Xylenes*</b>	<b>6.13</b>	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
<b>Total BTEX</b>	<b>6.75</b>	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 176 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6930</b>	16.0	03/17/2016	ND	400	100	400	3.92	

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>107</b>	10.0	03/15/2016	ND	201	100	200	10.0	
<b>DRO &gt;C10-C28</b>	<b>2130</b>	10.0	03/15/2016	ND	216	108	200	9.28	

Surrogate: 1-Chlorooctane 113 % 35-147

Surrogate: 1-Chlorooctadecane 139 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	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' (H600542-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/17/2016	ND	1.97	98.6	2.00	1.09	
<b>Toluene*</b>	<b>0.323</b>	0.100	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.100	0.100	03/17/2016	ND	1.66	83.1	2.00	2.82	
<b>Total Xylenes*</b>	<b>4.66</b>	0.300	03/17/2016	ND	5.13	85.5	6.00	2.14	
<b>Total BTEX</b>	<b>4.98</b>	0.600	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5730</b>	16.0	03/17/2016	ND	400	100	400	3.92	

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>190</b>	10.0	03/15/2016	ND	201	100	200	10.0	
<b>DRO &gt;C10-C28</b>	<b>3270</b>	10.0	03/15/2016	ND	216	108	200	9.28	

Surrogate: 1-Chlorooctane 123 % 35-147

Surrogate: 1-Chlorooctadecane 153 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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





April 21, 2016

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 04/14/16 9:15.

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/14/2016	Sampling Date:	04/11/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	01/05/16 LEAK	Sample Received By:	Celey D. Keene
Project Location:	SOUTH 128		

**Sample ID: SP1 @ 1' (H600814-01)**

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	04/14/2016	ND	1.99	99.4	2.00	3.92	
Toluene*	<0.050	0.050	04/14/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/14/2016	ND	1.74	87.2	2.00	1.99	
<b>Total Xylenes*</b>	<b>0.597</b>	0.150	04/14/2016	ND	5.28	88.0	6.00	2.25	
<b>Total BTEX</b>	<b>0.630</b>	0.300	04/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6130</b>	16.0	04/18/2016	ND	416	104	400	3.92	

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>30.4</b>	10.0	04/14/2016	ND	178	89.0	200	12.3		
<b>DRO &gt;C10-C28</b>	<b>1730</b>	10.0	04/14/2016	ND	206	103	200	16.0	QM-07	

Surrogate: 1-Chlorooctane 98.2 % 35-147

Surrogate: 1-Chlorooctadecane 192 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/14/2016	Sampling Date:	04/11/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	01/05/16 LEAK	Sample Received By:	Celey D. Keene
Project Location:	SOUTH 128		

**Sample ID: SP2 @ 2' (H600814-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2016	ND	1.99	99.4	2.00	3.92	
<b>Toluene*</b>	<b>0.061</b>	0.050	04/14/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/14/2016	ND	1.74	87.2	2.00	1.99	
<b>Total Xylenes*</b>	<b>0.680</b>	0.150	04/14/2016	ND	5.28	88.0	6.00	2.25	
<b>Total BTEX</b>	<b>0.741</b>	0.300	04/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3720</b>	16.0	04/18/2016	ND	416	104	400	3.92	

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>135</b>	10.0	04/14/2016	ND	178	89.0	200	12.3		
<b>DRO &gt;C10-C28</b>	<b>7180</b>	10.0	04/14/2016	ND	206	103	200	16.0		

Surrogate: 1-Chlorooctane 110 % 35-147

Surrogate: 1-Chlorooctadecane 204 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/14/2016	Sampling Date:	04/11/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	01/05/16 LEAK	Sample Received By:	Celey D. Keene
Project Location:	SOUTH 128		

**Sample ID: SP3 @ 2' (H600814-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2016	ND	1.99	99.4	2.00	3.92	
<b>Toluene*</b>	<b>0.056</b>	0.050	04/14/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/14/2016	ND	1.74	87.2	2.00	1.99	
<b>Total Xylenes*</b>	<b>0.748</b>	0.150	04/14/2016	ND	5.28	88.0	6.00	2.25	
<b>Total BTEX</b>	<b>0.803</b>	0.300	04/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4400</b>	16.0	04/18/2016	ND	416	104	400	3.92	

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>123</b>	10.0	04/14/2016	ND	178	89.0	200	12.3		
<b>DRO &gt;C10-C28</b>	<b>6430</b>	10.0	04/14/2016	ND	206	103	200	16.0		

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 194 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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





# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1971

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

Project Manager: Cliff Brunson P.O. #: *PRY*

Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Company: *PRY*

City: Hobbs State: NM Zip: 88241 Attn: *Carolyn*

Phone #: 575-397-6388 Fax #: 575-397-0397 Address: *15110*

Project #: Project Owner: *CYPRESS SW Field #1 CTB*

Project Location: *15110* City: State: Zip:

Sample Name: *Original Sample* Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
<i>400814-</i>														
<i>01</i>	<i>SP1011</i>			<input checked="" type="checkbox"/>	<i>TPH</i>									
<i>02</i>	<i>SP202</i>			<input checked="" type="checkbox"/>	<i>BTEX</i>									
<i>03</i>	<i>SP303</i>			<input checked="" type="checkbox"/>	<i>CL</i>									
	<i>SP1111</i>													

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Relinquished By: *[Signature]* Date: *4-13-10* Received By: *[Signature]* Date: *4-13-10*

Relinquished By: *[Signature]* Date: *4-13-10* Received By: *[Signature]* Date: *4-13-10*

Delivered By: (Circle One) *UPS* -5:60c *UPS* -5:55c

Sampler - UPS - Bus - Other: *Cardinal - 5:55c* Sample Condition:  Intact  Damaged

Checked By: *[Signature]* (Initials) *cdh* REMARKS: *#59*



March 17, 2016

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 03/11/16 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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.

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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	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' (H600541-01)**

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	03/16/2016	ND	2.03	102	2.00	1.63	
<b>Toluene*</b>	<b>0.071</b>	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

*Surrogate: 1-Chlorooctane 82.7 % 35-147*
*Surrogate: 1-Chlorooctadecane 89.7 % 28-171*

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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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	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 @ 2' (H600541-02)**

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	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>880</b>	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/14/2016	ND	220	110	200	4.67	
<b>DRO &gt;C10-C28</b>	<b>20.7</b>	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 81.5 % 35-147

Surrogate: 1-Chlorooctadecane 84.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	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' (H600541-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1840</b>	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
<b>DRO &gt;C10-C28</b>	<b>165</b>	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 90.9 % 35-147

Surrogate: 1-Chlorooctadecane 84.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	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' (H600541-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2360</b>	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
<b>DRO &gt;C10-C28</b>	<b>104</b>	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 98.4 % 35-147

Surrogate: 1-Chlorooctadecane 89.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	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' (H600541-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>416</b>	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
<b>DRO &gt;C10-C28</b>	<b>15.2</b>	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 93.4 % 35-147

Surrogate: 1-Chlorooctadecane 88.7 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	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 @ 2' (H600541-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	<0.050	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>768</b>	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	<10.0	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 93.9 % 35-147

Surrogate: 1-Chlorooctadecane 91.1 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	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' (H600541-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	<0.050	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>688</b>	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	<10.0	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 89.9 % 35-147

Surrogate: 1-Chlorooctadecane 80.0 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	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 @ 4' (H600541-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
<b>Toluene*</b>	<b>0.051</b>	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3040</b>	16.0	03/17/2016	ND	400	100	400	3.92	

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>12.5</b>	10.0	03/15/2016	ND	219	109	200	10.7	
<b>DRO &gt;C10-C28</b>	<b>374</b>	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 90.6 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	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' (H600541-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	<0.050	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/17/2016	ND	400	100	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	03/15/2016	ND	219	109	200	10.7	
<b>DRO &gt;C10-C28</b>	<b>148</b>	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 85.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	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 @ 2' (H600541-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	<0.050	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/17/2016	ND	400	100	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	03/15/2016	ND	219	109	200	10.7	
<b>DRO &gt;C10-C28</b>	<b>151</b>	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 96.8 % 35-147

Surrogate: 1-Chlorooctadecane 91.5 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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





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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
 Project Manager: Cliff Brunson  
 Address: P.O. Box 805  
 City: Hobbs  
 Phone #: 575-397-6388  
 Project #: [blank]  
 Project Name: CYPRESS 31 Fed 1 CTB (2.28.16)  
 Project Location: [blank]  
 Sampler Name: Paige Hernandez  
 FOR LAB USE ONLY

P.O. #: [blank]  
 Company: [blank]  
 Attn: CECEL SUMMERS  
 Address: [blank]  
 City: [blank]  
 State: [blank]  
 Zip: [blank]

State: NM zip: 88241  
 Fax #: 575-397-0397  
 Project Owner: OKY  
 City: [blank]  
 State: [blank]  
 Zip: [blank]

Phone #: [blank]  
 Fax #: [blank]

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H1000541	SP1 @ 1' V	G	1								3-7-16	1011	CHLORIDE
	@ 2' V	G	1								3-7-16	1045	TPH
	@ 3' V	G	1								3-7-16	1150	BTEX
	@ 4' V	G	1								3-8-16	940	
	SP2 @ 1' V	G	1								3-2-16	120	
	@ 2' V	G	1								3-2-16	143	
	@ 3' V	G	1								3-2-16	211	
	@ 4' V	G	1								3-2-16	1008	
	SP3 @ 1' V	G	1								3-2-16	308	
	2' V	G	1								3-2-16	530	

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Relinquished By: Paige Hernandez  
 Date: 3-10-16  
 Time: 3:30pm  
 Received By: Paige Hernandez  
 Date: 3/11/16  
 Time: 1:15

Delivered By: (Circle One)  
 UPS - Bus - Other: [blank]

Sample Condition  
 Yes  No  
 Cool - Intact  
 Yes  No  
 CHECKED BY: (Initials) CS

Phone Result:  Yes  No  
 Fax Result:  Yes  No  
 Add'l Phone #: [blank]  
 Add'l Fax #: [blank]  
 REMARKS: [blank]

-1.82 #54

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Cypress 34 Federal #1 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-35053

**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					Eddy County, NM

Latitude N 32.25497° Longitude W 103.96603°

**NATURE OF RELEASE**

Type of Release	Oil and produced water	Volume of Release	15 bbls oil, 25 bbls produced water	Volume Recovered	36 bbls
Source of Release	Head switch was full of trash and failed causing a tank spill	Date and Hour of Occurrence	01/05/2016	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Kelly Jones-NMOCD		
By Whom?	Jennifer Gilkey @ BBC International	Date and Hour	01/05/2016 @ 4:55 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

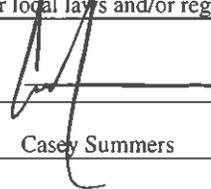
Describe Cause of Problem and Remedial Action Taken.\*

A head switch full of trash failed causing a tank to spill 15 bbls of oil and 25 bbls of produced water onto the ground. A vacuum truck recovered 36 bbls of fluids and the head switch was cleaned out.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 150' x 60' on location around the tanks inside the containment. 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:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Casey Summers	Approved by Environmental Specialist:	
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:
E-mail Address:	Casey_Summers@oxy.com	Conditions of Approval:	
Date:	1-14-16	Phone:	(575) 513-8289
		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  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Cypress 34 Federal #1CTB	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	API No. 30-015-35053

**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 32.25508° Longitude W 103.96647°

**NATURE OF RELEASE**

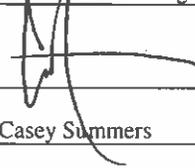
Type of Release	Oil and produced water	Volume of Release	10 bbls oil, 10 bbls produced water	Volume Recovered	15 bbls
Source of Release	A dump line clog forced fluids to spill out of the test heater	Date and Hour of Occurrence	02/28/2016	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Kathy @BBC International.com	Date and Hour	03/02/2016 @ 11:37 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
A dump line clog forced 10 bbls of oil and 10 bbls of produced water to spill out of the test heater. A vacuum truck recovered 15 bbls of fluids and the dump line was unclogged.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 90' x 45' on location inside containment. 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:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Casey Summers	Approved by Environmental Specialist:	
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:
E-mail Address:	Casey.Summers@oxy.com	Conditions of Approval:	
Date:	3-9-16	Phone:	(575) 513-8289
		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary