

Closure Report

Site Description

Site Name:	Cypress 33 Federal #2H Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L A, Section 33, T23S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.26644° W 103.98343°

Release Data

Date of Release:	04/22/2015
Type of Release:	Oil and produced water
Source of Release:	Valve was left open causing the tank to spill over
Volume of Release:	12 bbls oil, 13 bbls produced water
Volume Recovered:	0 bbls

Remediation Specifications

Remediation Parameters:	Excavate the entire spill area to a depth of 1.5 feet. In the area near SP2, excavate to a depth of 3 feet. Take confirmation samples at SP1 and SP3. Backfill the site with clean soil.
Remediation Activities:	November 2015

Plan Sent to OCD:	08/10/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	08/19/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	08/19/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	08/19/2015	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 04/30/2015
Final C-141	Signed 02/23/2015
Site Diagram	April 2015
Groundwater Plot	50'-75'
TOPO Maps	April 2015
Lab Summary	05/11/2015-05/12/2015 and 10/05/2015
Lab Analysis	05/11/2015-05/12/2015 and 10/05/2015
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

02/25/2016

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Cypress 33 Federal #2H Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API No. 30-015-37308

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	33	23S	29E					Eddy County, NM

Latitude N 32.26644° Longitude W 103.98343°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	12 bbls oil, 13 bbls produced water	Volume Recovered	0 bbls
Source of Release	Valve was left open causing the tank to spill over	Date and Hour of Occurrence	04/22/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD, James Amos-BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	04/28/2015 @ 9:41 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 valve was left open causing the tank to spill 12 bbls of oil and 13 bbls of produced water onto the ground. No fluids were recovered and the valve was placed in the correct position.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 75' x 100' with the spill staying on location. Remediation will be completed in accordance with a remediation plan approved by both 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.

Chris
Signature: Jones
Digitally signed by Chris Jones
DN: cn=Chris Jones, o, ou,
email=ckjones888@yahoo.com,
c=US
Date: 2015.04.30 12:57:45 -05'00'

OIL CONSERVATION DIVISION

Printed Name:	Christopher Jones	Approved by Environmental Specialist:	
Title:	HES Specialist	Approval Date:	Expiration Date:
E-mail Address:	Christopher_Jones@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	Phone: (575) 628-4121		

* 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 33 Federal #2H Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No. 30-015-37308	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	33	23S	29E					Eddy County, NM

Latitude N 32.26644° Longitude W 103.98343°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	12 bbls oil, 13 bbls produced water	Volume Recovered	0 bbls
Source of Release	Valve was left open causing the tank to spill over	Date and Hour of Occurrence	04/22/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD, James Amos-BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	04/28/2015 @ 9:41am		
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 valve was left open causing the tank to spill 12 bbls of oil and 13 bbls of produced water onto the ground. No fluids were recovered and the valve was placed in the correct position.

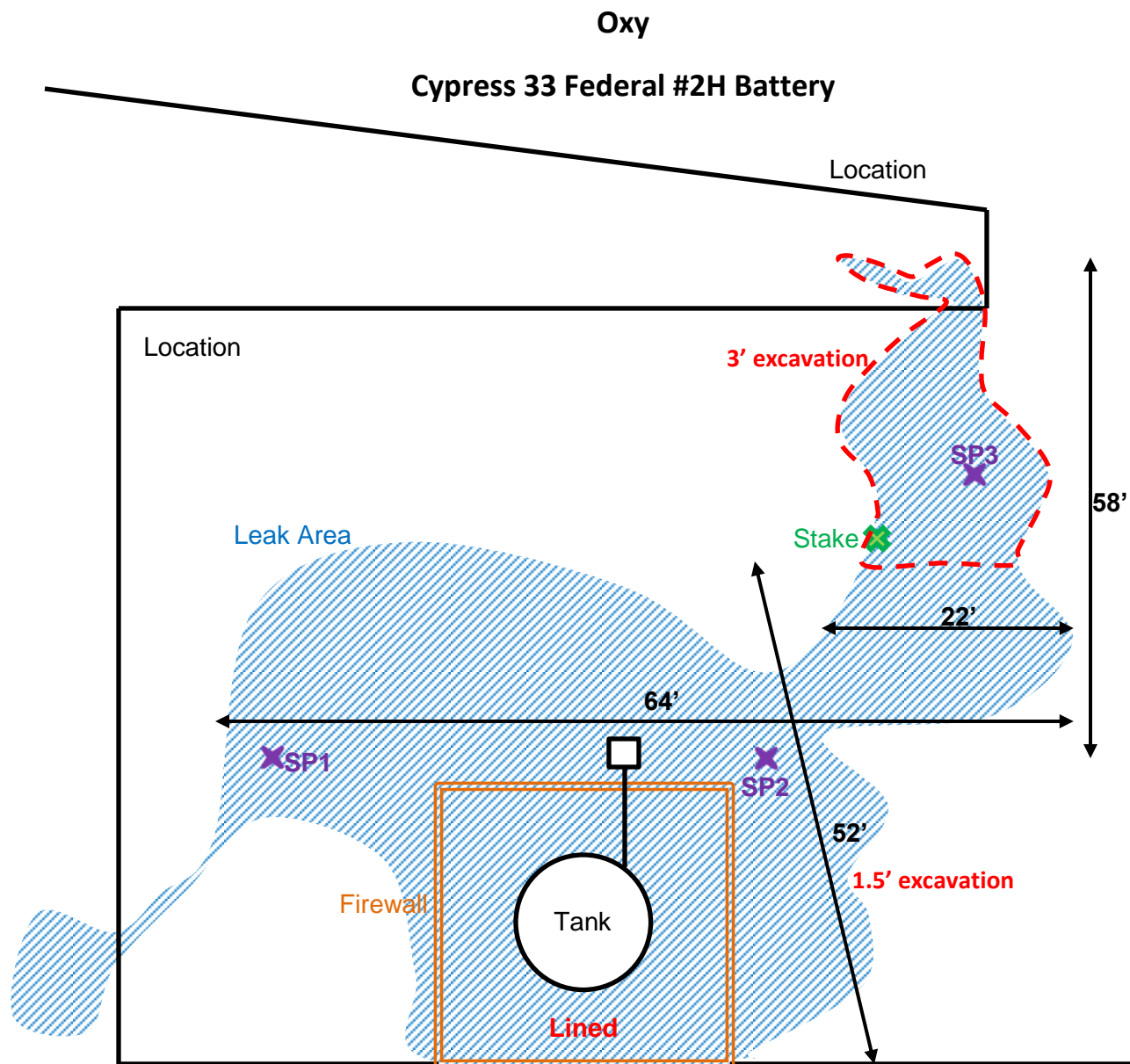
Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 75' x 100' with the spill staying on location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 08/19/2015 and approved by Shelly Tucker of the BLM via email on 08/19/2015.

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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2-23-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary



U/L A, Section 33, T23S, R29E
Eddy County, NM
N 32.26644° W 103.98343°
API# 30-015-37308

BBC International, Inc.

Oxy
Cypress 33 Federal #2H Battery

Date: 04/30/2015	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2015

Groundwater Plot

Oxy Cypress 33 Federal #2H Battery

County
Eddy

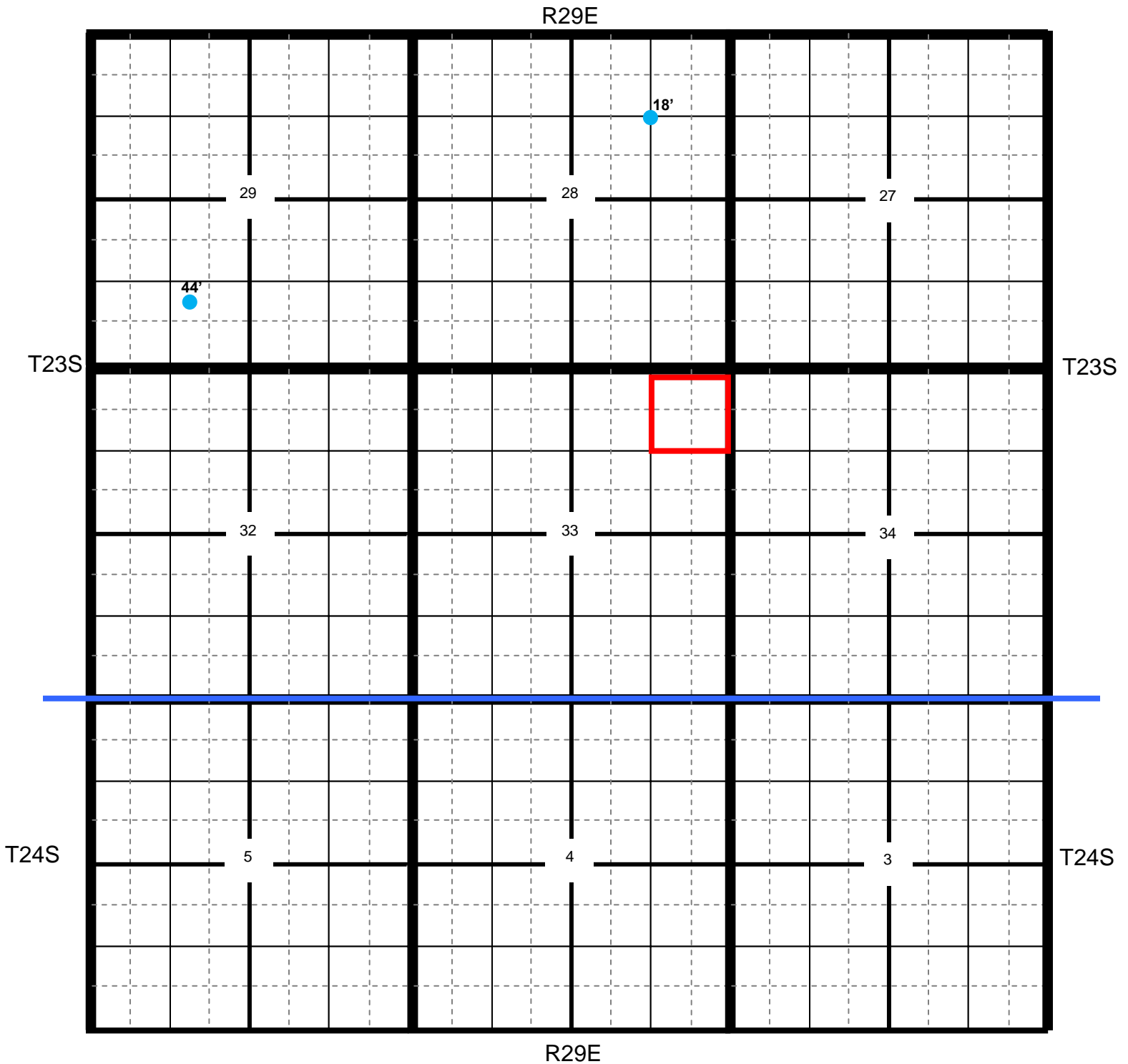
Unit Letter
A

Section
33

Township
23S

Range
29E

Trend Map 50'-75'



Location

OCD

USGS

SEO

All Databases

Oxy Cypress 33 Federal #2H Battery

County Eddy Unit Letter A Section 33 Township 23S Range 29E

Trend Map 50'-75'

1

2

NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

Oxy



Battery



Laboratory Analytical Results Summary
Cypress 33 Federal #2H

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'
Analyte	Method	Date	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		2.04	7.55	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		29.9	105	0.085	<0.050	<0.050
Ethylbenzene	BTEX 8021B		10	40.5	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		50.9	184	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		92.8	337	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		5280	<16.0	<16.0	128	128
GRO	TPH 8015M		2060	5730	16.7	<10.0	<10.0
DRO	TPH 8015M		69500	15100	306	<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 6'	SP2 @ 7'
Analyte	Method	Date	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		1.04	3.54	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		16.5	69.9	0.432	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		6.6	32.4	0.502	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		33.1	158	3.01	0.179	<0.150	<0.150
Total BTEX	BTEX 8021B		57.2	264	3.94	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		3760	272	32	128	48	<16.0
GRO	TPH 8015M		1330	3000	156	<10.0	<10.0	<10.0
DRO	TPH 8015M		52100	12800	1680	111	<10.0	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	5/11/15	5/11/15	5/12/15	5/12/15	5/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.237	5.85	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		5.51	81.4	0.063	<0.050	<0.050
Ethylbenzene	BTEX 8021B		3.52	30.6	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		21	148	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		30.2	266	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		80	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		641	3860	<10.0	<10.0	<10.0
DRO	TPH 8015M		29300	10100	12.8	<10.0	<10.0

**Laboratory Analytical Results Summary
Cypress 33 Federal #2H**

<i>Confirmation</i>		Sample	SP1 @ 1.5'	SP3 @ 3'
Analyte	Method	Date	10/5/15	10/5/15
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		344	282

May 20, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 33 FEDERAL #2H

Enclosed are the results of analyses for samples received by the laboratory on 05/13/15 16:50.

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.

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:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ SURFACE (H501235-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.04	1.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	29.9	1.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	10.0	1.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	50.9	3.00	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTX	92.8	6.00	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	05/18/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2060	100	05/15/2015	ND	175	87.4	200	0.307		
DRO >C10-C28	69500	100	05/15/2015	ND	203	102	200	6.78		

Surrogate: 1-Chlorooctane 238 % 47.2-157

Surrogate: 1-Chlorooctadecane 2310 % 52.1-176

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:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ 1 (H501235-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.55	5.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	105	5.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	40.5	5.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	184	15.0	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	337	30.0	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 61-154

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	05/18/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5730	50.0	05/15/2015	ND	175	87.4	200	0.307		
DRO >C10-C28	15100	50.0	05/15/2015	ND	203	102	200	6.78		

Surrogate: 1-Chlorooctane 225 % 47.2-157

Surrogate: 1-Chlorooctadecane 343 % 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:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ 3 (H501235-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	0.085	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/18/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16.7	10.0	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	306	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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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:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ 5 (H501235-04)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2015	ND	1.81	90.7	2.00	1.58		
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91		
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46		
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12		
Total BTX	<0.300	0.300	05/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/18/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	<10.0	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 97.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 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:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ 6 (H501235-05)

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	05/19/2015	ND	1.81	90.7	2.00	1.58		
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91		
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46		
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12		
Total BTEx	<0.300	0.300	05/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/18/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	<10.0	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 95.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ SURFACE (H501235-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.04	0.500	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	16.5	0.500	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	6.60	0.500	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	33.1	1.50	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	57.2	3.00	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	05/18/2015	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1330	100	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	52100	100	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 185 % 47.2-157

Surrogate: 1-Chlorooctadecane 1920 % 52.1-176

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

Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 1 (H501235-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.54	2.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	69.9	2.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	32.4	2.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	158	6.00	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	264	12.0	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/18/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3000	50.0	05/15/2015	ND	175	87.4	200	0.307		
DRO >C10-C28	12800	50.0	05/15/2015	ND	203	102	200	6.78		

Surrogate: 1-Chlorooctane 205 % 47.2-157

Surrogate: 1-Chlorooctadecane 302 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 3 (H501235-08)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	0.432	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	0.502	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	3.01	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	3.94	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2015	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	156	10.0	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	1680	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 131 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 5 (H501235-09)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	0.179	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/18/2015	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	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	111	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 6 (H501235-10)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2015	ND	1.81	90.7	2.00	1.58		
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91		
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46		
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12		
Total BTX	<0.300	0.300	05/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2015	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	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	<10.0	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 95.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

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

Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 7 (H501235-11)

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	05/19/2015	ND	1.81	90.7	2.00	1.58		
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91		
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46		
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12		
Total BTEX	<0.300	0.300	05/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/18/2015	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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	<10.0	10.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 98.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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Fax To: (575) 397-0397

Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ SURFACE (H501235-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.237	0.200	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	5.51	0.200	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	3.52	0.200	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	21.0	0.600	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTX	30.2	1.20	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/18/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	641	50.0	05/18/2015	ND	173	86.6	200	1.90		
DRO >C10-C28	29300	50.0	05/18/2015	ND	198	99.0	200	1.16		

Surrogate: 1-Chlorooctane 206 % 47.2-157

Surrogate: 1-Chlorooctadecane 890 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ 1 (H501235-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.85	2.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	81.4	2.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	30.6	2.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	148	6.00	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	266	12.0	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 61-154

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	05/18/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3860	50.0	05/18/2015	ND	173	86.6	200	1.90		
DRO >C10-C28	10100	50.0	05/18/2015	ND	198	99.0	200	1.16		

Surrogate: 1-Chlorooctane 193 % 47.2-157

Surrogate: 1-Chlorooctadecane 244 % 52.1-176

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

Received:	05/13/2015	Sampling Date:	05/12/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ 3 (H501235-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2015	ND	1.81	90.7	2.00	1.58		
Toluene*	0.063	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91		
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46		
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12		
Total BTEx	<0.300	0.300	05/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/18/2015	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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	12.8	10.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 99.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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:	05/13/2015	Sampling Date:	05/12/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ 5 (H501235-15)

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	05/19/2015	ND	1.81	90.7	2.00	1.58		
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91		
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46		
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12		
Total BTEx	<0.300	0.300	05/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/18/2015	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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	<10.0	10.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 98.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 52.1-176

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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:	05/13/2015	Sampling Date:	05/12/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ 6 (H501235-16)

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	05/20/2015	ND	1.77	88.3	2.00	0.512		
Toluene*	<0.050	0.050	05/20/2015	ND	1.89	94.5	2.00	0.771		
Ethylbenzene*	<0.050	0.050	05/20/2015	ND	1.79	89.7	2.00	1.34		
Total Xylenes*	<0.150	0.150	05/20/2015	ND	5.33	88.8	6.00	0.885		
Total BTEX	<0.300	0.300	05/20/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/18/2015	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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	<10.0	10.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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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.
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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs Phone #: 575-397-6388 State: NM zip: 88241 Fax #: 575-397-0397 Project #: Project Name: Cypress 33 Federal 24 Project Location: Rubidoe Road Project Owner: Oxy City: State: Zip: Phone #: Fax #:				BILL TO				ANALYSIS REQUEST			
FOR LAB USE ONLY				Sample Name: WHT Donkeys Lab I.D.:				Sample I.D.:			
Relinquished By: WHT Donkeys Relinquished By:				Received By: WHT Donkeys Received By:				DATE			
Time: 4:30 Date:				Time:				Date			
Delivered By: (Circle One) UPS - Bus - Other:				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				CHECKED BY: (Initials) [Signature]			
REMARKS:				REMARKS:				REMARKS:			

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

October 08, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 33 FEDERAL #2H

Enclosed are the results of analyses for samples received by the laboratory on 10/05/15 16:55.

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.

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:	10/05/2015	Sampling Date:	10/05/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ 1.5 (H502632-01)

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	10/07/2015	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	10/07/2015	ND	1.90	95.2	2.00	2.19		
Ethylbenzene*	<0.050	0.050	10/07/2015	ND	1.61	80.3	2.00	1.41		
Total Xylenes*	<0.150	0.150	10/07/2015	ND	5.63	93.8	6.00	0.660		
Total BTEX	<0.300	0.300	10/07/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

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	10/07/2015	ND	213	107	200	1.91		
DRO >C10-C28	344	10.0	10/07/2015	ND	239	119	200	2.32		

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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:	10/05/2015	Sampling Date:	10/05/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ 3 (H502632-02)

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	10/07/2015	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	10/07/2015	ND	1.90	95.2	2.00	2.19		
Ethylbenzene*	<0.050	0.050	10/07/2015	ND	1.61	80.3	2.00	1.41		
Total Xylenes*	<0.150	0.150	10/07/2015	ND	5.63	93.8	6.00	0.660		
Total BTEX	<0.300	0.300	10/07/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 85.6-137

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	10/07/2015	ND	213	107	200	1.91		
DRO >C10-C28	282	10.0	10/07/2015	ND	239	119	200	2.32		

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Wednesday, August 19, 2015 6:58 AM
To: Cliff Brunson; Shelly Tucker; Patterson, Heather, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY Cypress 33 Federal #2H Battery - Remediation Plan

RE: OXY USA * Cypress 22 Fed 2H * 30-015-37308 * A-33-23s-29e * **2RP-2979** * DOR: 4/22/15

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise if proposed excavation depths are not achieved. Federal sites require like approval by BLM.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Monday, August 10, 2015 6:55 PM
To: Shelly Tucker; Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY Cypress 33 Federal #2H Battery - Remediation Plan

Shelly and Mike,

On Wednesday, July 29, 2015, I was able to visit with both you about this site. I discussed the plan with Mike first, then met with Shelly later and both of you agreed to the same plan. Therefore, this e-mail is to confirm our discussion on Wednesday, July 29, 2015 concerning the remediation plan for the Oxy Cypress 33 Federal #2H Battery. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you both would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Tucker, Shelly <stucker@blm.gov>
Sent: Wednesday, August 19, 2015 11:31 AM
To: Bratcher, Mike, EMNRD
Cc: Cliff Brunson; Patterson, Heather, EMNRD; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY Cypress 33 Federal #2H Battery - Remediation Plan

BLM accepts/approves your Work Plan.

The BLM approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



On Wed, Aug 19, 2015 at 6:58 AM, Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> wrote:

RE: OXY USA * Cypress 22 Fed 2H * 30-015-37308 * A-33-23s-29e * **2RP-2979** * DOR: 4/22/15

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise if proposed excavation depths are not achieved. Federal sites require like approval by BLM.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Monday, August 10, 2015 6:55 PM

To: Shelly Tucker; Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD

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

Subject: OXY Cypress 33 Federal #2H Battery - Remediation Plan

Shelly and Mike,

On Wednesday, July 29, 2015, I was able to visit with both you about this site. I discussed the plan with Mike first, then met with Shelly later and both of you agreed to the same plan. Therefore, this e-mail is to confirm our discussion on Wednesday, July 29, 2015 concerning the remediation plan for the Oxy Cypress 33 Federal #2H Battery. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you both would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

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E-Mail: cbrunson@bbcinternational.com

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