

Closure Report

Site Description

Site Name:	Cedar Canyon 15 SWD #001
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 15, T24S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.21642° W 103.97592°

Release Data

Date of Release:	10/11/2015
Type of Release:	Produced water
Source of Release:	Failure of a transfer line clamp
Volume of Release:	200 bbls
Volume Recovered:	0 bbls

Remediation Specifications

Remediation Parameters:	Excavate the areas surrounding SP1, SP2, SP3, & SP4 to a depth of 1 foot. Excavate the areas around SP5 and SP6 to a depth of 2 feet. Backfill the site with clean soil.	
Remediation Activities:	August 2016	
Plan Sent to OCD:	12/15/2016	Email from Cliff Brunson to Heather Patterson
OCD Approval of Plan:	12/16/2016	Email from Heather Patterson to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 11/11/15
Final C-141	Signed 08/22/2016
Site Diagram	November 2015
Groundwater Plot	75'-100'
TOPO Maps	November 2015
Lab Summary	11/24/2015-11/25/2015
Lab Analysis	11/24/2015-11/25/2015
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.

08/22/2016

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

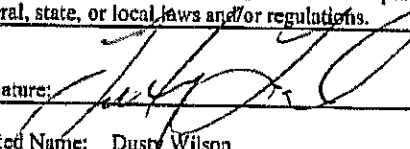
OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company	Oxy Permian Ltd.	Contact	Dusty Wilson
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	432-685-5771
Facility Name	Cedar Canyon 15 SWD #001	Facility Type	Battery
Surface Owner	Brantley- McDonald	Mineral Owner	API No. 30-015-42797

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	15	24S	29E					Eddy

Latitude 32.21710 Longitude 103.97642

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	200 bbls	Volume Recovered	0 bbls
Source of Release	Failure of a transfer line clamp	Date and Hour of Occurrence	10/11/15	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?	Heather Patterson, Mike Bratcher		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	10/13/15 11:45 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 transfer line clamp caused 200 bbls of produced water to leak on to the ground. No fluids were recovered and the clamp was replaced.					
Describe Area Affected and Cleanup Action Taken.* The affected area is approximately 100' x 250' on and off location. Remediation will be completed in accordance with the remediation plan approved by NMOCD.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature: 		OIL CONSERVATION DIVISION			
Printed Name: Dusty Wilson		Approved by Environmental Specialist:			
Title: Environmental Advisor		Approval Date:		Expiration Date:	
E-mail Address: : Dusty.Wilson@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: <u>11/11/15</u> Phone:					

* Attach Additional Sheets If Necessary

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1220 South St. Francis Dr.
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Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	575-513-8289
Facility Name	Cedar Canyon 15 SWD #001	Facility Type	Battery
Surface Owner	Brantley- McDonald	Mineral Owner	API No. 30-015-42797

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	15	24S	29E					Eddy

Latitude 32.21710 Longitude 103.97642

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	200 bbls	Volume Recovered	0 bbls
Source of Release	Failure of a transfer line clamp	Date and Hour of Occurrence	10/11/15	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?	Heather Patterson, Mike Bratcher		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	10/13/15 11:45 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.*

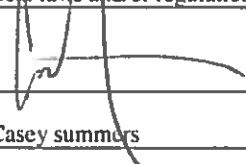
Describe Cause of Problem and Remedial Action Taken.*

A transfer line clamp caused 200 bbls of produced water to leak on to the ground. No fluids were recovered and the clamp was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 100' x 250' on and off location. Remediation was completed in accordance with the remediation plan approved by Heather Patterson of NMOCD via email on 12/16/2015.

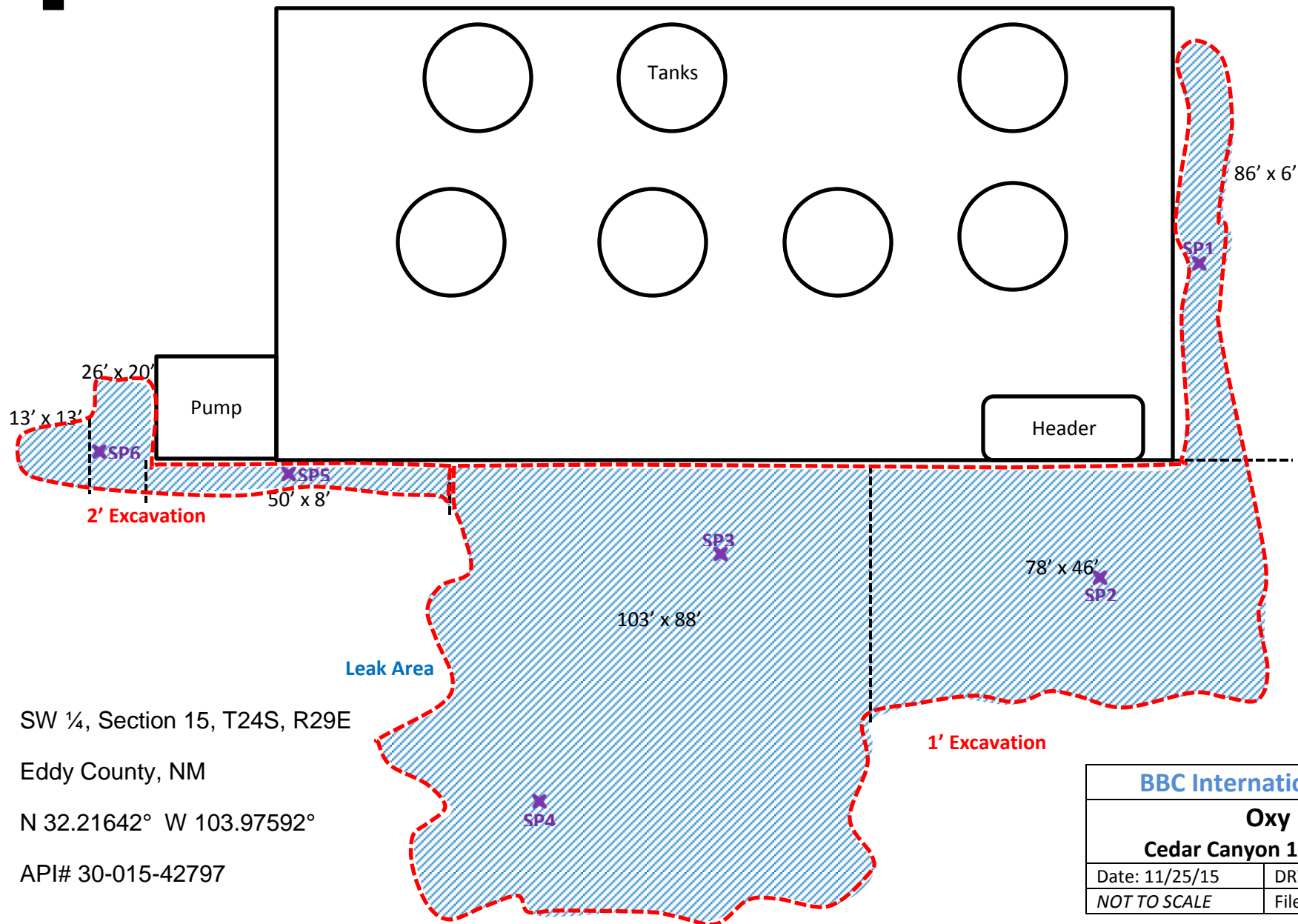
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 		OIL CONSERVATION DIVISION	
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: <u>8-22-16</u> Phone: 575-513-8289		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary



Oxy
Cedar Canyon 15 SWD #1



SW ¼, Section 15, T24S, R29E

Eddy County, NM

N 32.21642° W 103.97592°

API# 30-015-42797

BBC International, Inc.

Oxy
Cedar Canyon 15 SWD #1

Date: 11/25/15

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015



Groundwater Plot

Oxy Cedar Canyon 15 SWD #001

County
Eddy

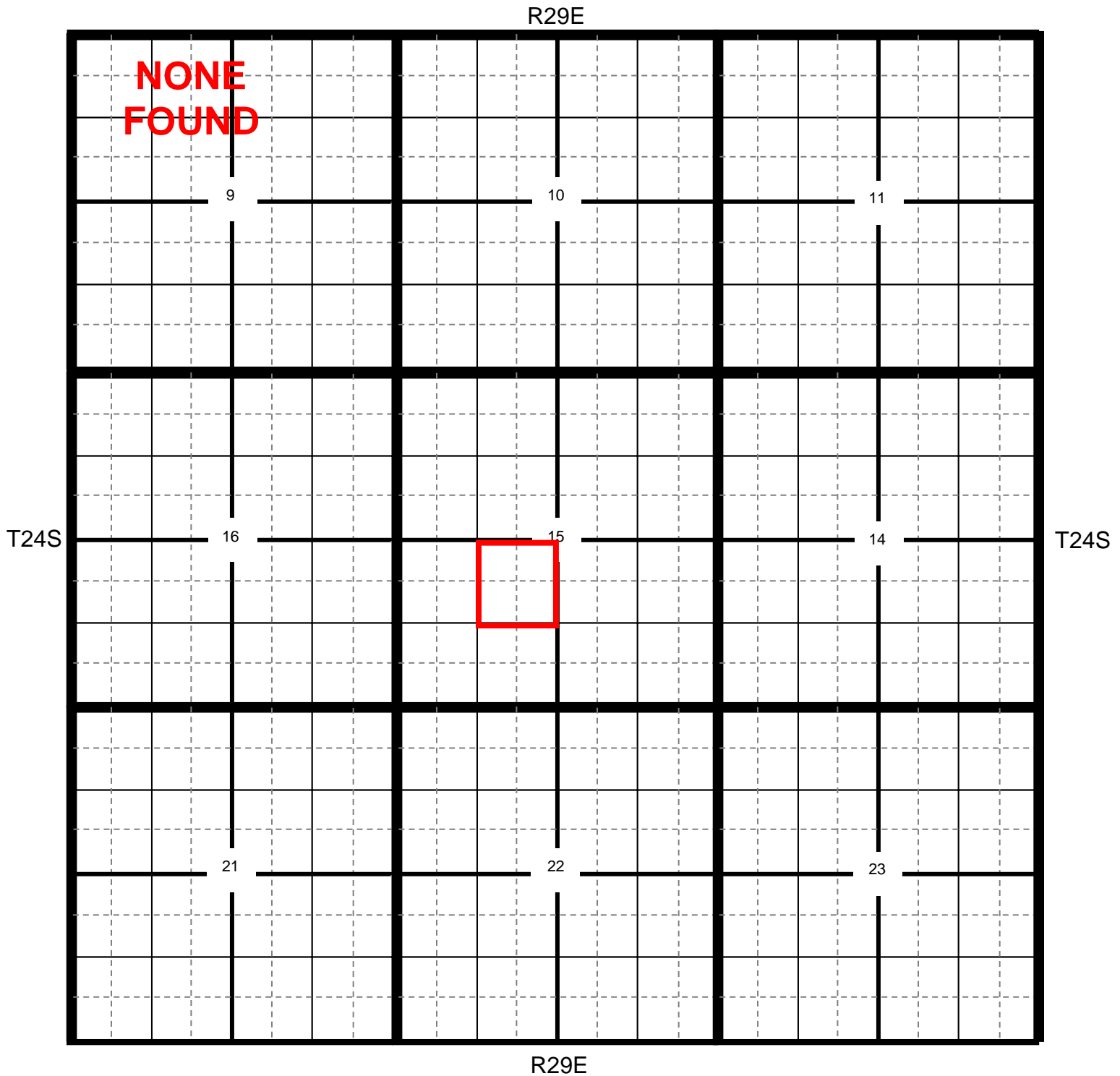
Unit Letter
K

Section
15

Township
24S

Range
29E

Trend Map 75'-100'



★ Location

● OCD

● USGS

● SEO

● All Databases

Section Quarters

Oxy Cedar Canyon 15 SWD #001

County Eddy
 Unit Letter K
 Section 15
 Township 24S
 Range 29E

Trend Map 75'-100'

1

2

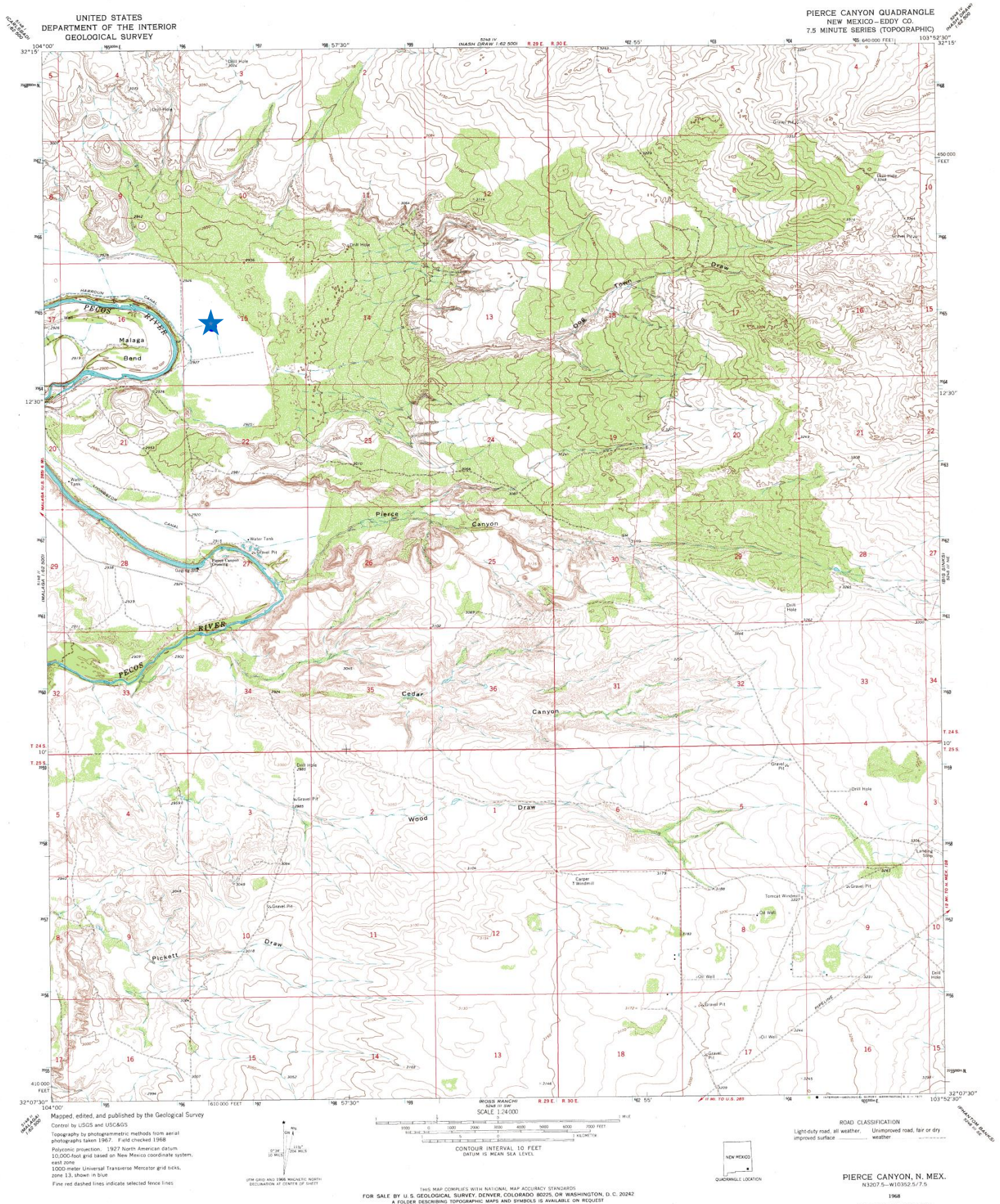
NW/NW NONE FOUND Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit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

3

4

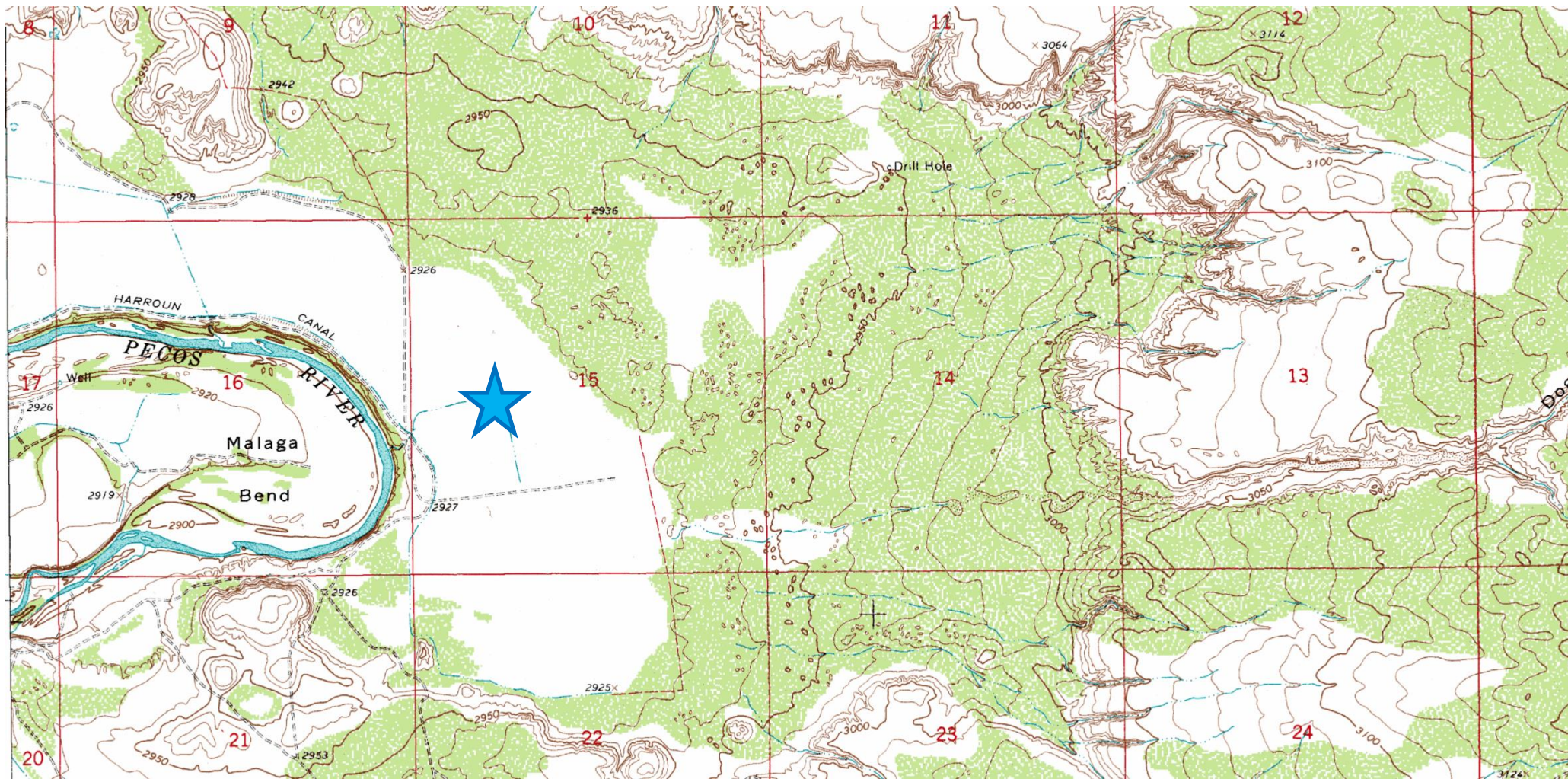
Oxy

Cedar Canyon 15 SWD #1



Oxy

Cedar Canyon 15 SWD #1



**Laboratory Analytical Results Summary
Cedar Canyon 15 SWD #1**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	11/24/15	11/24/15	11/24/15
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		3160	336	192
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	11/24/15	11/24/15	11/24/15
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		3280	224	128
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	11/24/15	11/24/15	11/24/15
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		13200	96	128
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	11/25/15	11/25/15	11/25/15
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		400	272	192
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	11/25/15	11/25/15	11/25/15	11/25/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		1100	432	1040	192
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	11/25/15	11/25/15	11/25/15	11/25/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		1200	1120	768	192
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a



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

December 08, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 15 SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 12/01/15 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/01/2015	Sampling Date:	11/24/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H503145-01)

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	12/03/2015	ND	1.71	85.5	2.00	0.862	
Toluene*	<0.050	0.050	12/03/2015	ND	1.71	85.5	2.00	0.866	
Ethylbenzene*	<0.050	0.050	12/03/2015	ND	1.77	88.4	2.00	1.29	
Total Xylenes*	<0.150	0.150	12/03/2015	ND	5.34	89.0	6.00	1.20	
Total BTEX	<0.300	0.300	12/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	3160	16.0	12/04/2015	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	12/03/2015	ND	193	96.3	200	4.68	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	190	94.8	200	6.86	

Surrogate: 1-Chlorooctane 96.8 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

Sample ID: SP 1 @ 2' (H503145-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/04/2015	ND	432	108	400	0.00	

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:	12/01/2015	Sampling Date:	11/24/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H503145-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/04/2015	ND	432	108	400	0.00	

Sample ID: SP 2 @ 1' (H503145-04)

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	12/03/2015	ND	1.71	85.5	2.00	0.862	
Toluene*	<0.050	0.050	12/03/2015	ND	1.71	85.5	2.00	0.866	
Ethylbenzene*	<0.050	0.050	12/03/2015	ND	1.77	88.4	2.00	1.29	
Total Xylenes*	<0.150	0.150	12/03/2015	ND	5.34	89.0	6.00	1.20	
Total BTEx	<0.300	0.300	12/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	3280	16.0	12/04/2015	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	12/03/2015	ND	193	96.3	200	4.68	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	190	94.8	200	6.86	

Surrogate: 1-Chlorooctane 90.6 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/01/2015	Sampling Date:	11/24/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H503145-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	12/04/2015	ND	432	108	400	0.00		

Sample ID: SP 2 @ 3' (H503145-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/04/2015	ND	432	108	400	0.00	

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:	12/01/2015	Sampling Date:	11/24/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H503145-07)

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	12/03/2015	ND	1.71	85.5	2.00	0.862		
Toluene*	<0.050	0.050	12/03/2015	ND	1.71	85.5	2.00	0.866		
Ethylbenzene*	<0.050	0.050	12/03/2015	ND	1.77	88.4	2.00	1.29		
Total Xylenes*	<0.150	0.150	12/03/2015	ND	5.34	89.0	6.00	1.20		
Total BTEX	<0.300	0.300	12/03/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	13200	16.0	12/04/2015	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	12/03/2015	ND	193	96.3	200	4.68	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	190	94.8	200	6.86	

Surrogate: 1-Chlorooctane 96.3 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

Sample ID: SP 3 @ 2' (H503145-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/04/2015	ND	464	116	400	3.51		

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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:	12/01/2015	Sampling Date:	11/24/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 3' (H503145-09)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/04/2015	ND	464	116	400	3.51		

Sample ID: SP 4 @ 1' (H503145-10)

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	12/03/2015	ND	1.71	85.5	2.00	0.862	
Toluene*	<0.050	0.050	12/03/2015	ND	1.71	85.5	2.00	0.866	
Ethylbenzene*	<0.050	0.050	12/03/2015	ND	1.77	88.4	2.00	1.29	
Total Xylenes*	<0.150	0.150	12/03/2015	ND	5.34	89.0	6.00	1.20	
Total BTEx	<0.300	0.300	12/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/04/2015	ND	464	116	400	3.51	

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	12/03/2015	ND	193	96.3	200	4.68	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	190	94.8	200	6.86	

Surrogate: 1-Chlorooctane 92.3 % 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:	12/01/2015	Sampling Date:	11/25/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 2' (H503145-11)

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	12/04/2015	ND	464	116	400	3.51		

Sample ID: SP 4 @ 3' (H503145-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/04/2015	ND	464	116	400	3.51	

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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:	12/01/2015	Sampling Date:	11/25/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H503145-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2015	ND	1.71	85.5	2.00	0.862	
Toluene*	<0.050	0.050	12/03/2015	ND	1.71	85.5	2.00	0.866	
Ethylbenzene*	<0.050	0.050	12/03/2015	ND	1.77	88.4	2.00	1.29	
Total Xylenes*	<0.150	0.150	12/03/2015	ND	5.34	89.0	6.00	1.20	
Total BTEX	<0.300	0.300	12/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	12/04/2015	ND	464	116	400	3.51	

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	12/03/2015	ND	193	96.3	200	4.68	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	190	94.8	200	6.86	

Surrogate: 1-Chlorooctane 98.4 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

Sample ID: SP 5 @ 2' (H503145-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/04/2015	ND	464	116	400	3.51	

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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:	12/01/2015	Sampling Date:	11/25/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 3' (H503145-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	12/04/2015	ND	464	116	400	3.51		

Sample ID: SP 5 @ 4' (H503145-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/04/2015	ND	464	116	400	3.51	

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Analytical Results For:

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

Received:	12/01/2015	Sampling Date:	11/25/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 1' (H503145-17)

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	12/03/2015	ND	1.71	85.5	2.00	0.862	
Toluene*	<0.050	0.050	12/03/2015	ND	1.71	85.5	2.00	0.866	
Ethylbenzene*	<0.050	0.050	12/03/2015	ND	1.77	88.4	2.00	1.29	
Total Xylenes*	<0.150	0.150	12/03/2015	ND	5.34	89.0	6.00	1.20	
Total BTEX	<0.300	0.300	12/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	1200	16.0	12/04/2015	ND	464	116	400	3.51	

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	12/03/2015	ND	193	96.3	200	4.68	
DRO >C10-C28	<10.0	10.0	12/03/2015	ND	190	94.8	200	6.86	

Surrogate: 1-Chlorooctane 87.7 % 35-147

Surrogate: 1-Chlorooctadecane 95.1 % 28-171

Sample ID: SP 6 @ 2' (H503145-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	12/04/2015	ND	464	116	400	3.51	

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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:	12/01/2015	Sampling Date:	11/25/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 3' (H503145-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	12/04/2015	ND	464	116	400	3.51		

Sample ID: SP 6 @ 4' (H503145-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/04/2015	ND	464	116	400	3.51	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: BBC International, Inc.		P.O. #:		BILL TO										ANALYSIS REQUEST																					
Project Manager: Cliff Brunson		Company:																																	
Address: P.O. Box 805		Attn:																																	
City: Hobbs		State: NM Zip: 88241																																	
Phone #: 575-397-6388		Fax #: 575-397-0397																																	
Project #:		City:																																	
Project Name: CEDAR CANYON 15 SUP #1		State:																																	
Project Location:		Zip:																																	
Sample Name: PACE Hernandez		Phone #:																																	
FOR LAB USE ONLY		Fax #:																																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		TPH		BTEX		CHLORIDE	
H503145		SP1011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		9:51		✓		✓		✓	
1		SP1011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		10:30		✓		✓		✓	
2		SP2011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		10:55		✓		✓		✓	
3		SP2011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		11:58		✓		✓		✓	
4		SP2011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		12:55		✓		✓		✓	
5		SP3011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		1:11		✓		✓		✓	
6		SP3011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		2:08		✓		✓		✓	
7		SP3011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		3:00		✓		✓		✓	
8		SP4011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		3:10		✓		✓		✓	
9		SP4011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		9:11		✓		✓		✓	
10		SP4011		G 1		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		11-24-15		9:11		✓		✓		✓	

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Relinquished By: PACE Hernandez	Date: 12-01-15	Received By: Jennifer Gentry	Time: 2:20
Relinquished By: Jennifer Gentry	Date: 12-1-15	Received By: PACE Hernandez	Time: 2:45
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2.06	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) JG

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

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

#54



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:	
Project Manager: Cliff Brunson		Company:	
Address: P.O. Box 805		Attn:	
City: Hobbs		Address:	
Phone #: 575-397-6388		City:	
Fax #: 575-397-0397		State:	
Project #:		Zip:	
Project Name: CEDAR CANYON 15 SUPP# 1		Phone #:	
Project Location:		Fax #:	
Sampler Name: Roger Hernandez		DATE	
FOR LAB USE ONLY		TIME	
Lab I.D.	Sample I.D.		
H503145	SP4 @ 2' ✓	TPH	
11	SP4 @ 3' ✓	BTEX	
12	SP5 @ 1' ✓	CHLORIDE	
13	SP5 @ 2' ✓		
14	SP5 @ 3' ✓		
15	SP6 @ 1' ✓		
16	SP6 @ 2' ✓		
17	SP6 @ 3' ✓		
18	SP6 @ 4' ✓		
19	SP6 @ 5' ✓		
20	SP6 @ 6' ✓		
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Relinquished By: Roger Hernandez	Date: 12-1-15	REMARKS:	
Relinquished By: Jennifer Gentry	Date: 12-1-15	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: Jennifer Gentry	Date: 12-1-15	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One) Jennifer Gentry	Date: 12-1-15	CHECKED BY: (Initials) [Signature]	
Sampler - UPS - Bus - Other:	Time: 2:20	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	
	Time: 8:45	<input type="checkbox"/> Yes <input type="checkbox"/> No	

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

#54

Kathy Purvis

From: Patterson, Heather, EMNRD <Heather.Patterson@state.nm.us>
Sent: Wednesday, December 16, 2015 1:24 PM
To: Cliff Brunson; Bratcher, Mike, EMNRD
Cc: Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY - Cedar Canyon 15 SWD #1 - Remediation Plan

RE: Oxy * Cedar Canyon 15 SWD #1 * 30-015-42797 * 2RP-3384

Cliff,

This work plan is approved as written.

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.

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Tuesday, December 15, 2015 7:05 PM
To: Bratcher, Mike, EMNRD
Cc: Dusty Wilson; Jennifer_Duarte@oxy.com; Patterson, Heather, EMNRD; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - Cedar Canyon 15 SWD #1 - Remediation Plan

Mike,

I have attached the remediation plan for the Oxy Cedar Canyon 15 SWD #1 release. In the packet you will find a cover page describing what Oxy proposes along with the site diagram depicting the excavation areas and the associated lab data and initial C-141.

If you would please review this request and if it is acceptable, please respond via email with your approval, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
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