Closure Report

R	EC	EI	VED	7
	SEP	27	2013	1

	Site Description	NMOGO ARTESIA
Site Name:	Cedar Canyon 28 Federal #4	2RP-1318
Company:	Oxy Permian Ltd.	
Legal Description:	U/L K, Section 28, T24S, R29E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.18629° W 103.99155°	

	Release Data
Date of Release:	08/14/2012
Type of Release:	Produced Water
Source of Release:	Valve on suction line left open
Volume of Release:	80 bbls
Volume Recovered:	8 bbls

	Remediation Specifications
Remediation	An initial response excavation to a depth of 1 foot was
Parameters:	completed. Excavate an additional 1 foot in the areas covered by SP1, SP2, and SP3. Excavate an additional 2 feet in the area covered by SP4. Then, backfill the entire excavation with clean soil.
Remediation Activities:	08/23/2013 to 09/12/2013

Plan Sent to OCD:	01/21/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	01/24/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	03/11/2013	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	03/25/2013	Email from J. Van Curen to Cliff Brunson

	Supporting Decumentation
Initial C-141	Signed 09/25/2012
Final C-141	Signed 09/24/2013
Site Diagram	August 2012
Groundwater Plot	75'
TOPO Maps	August 2012
Lab Summary	10/05/2012
Lab Analysis	10/05/2012
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.

09/26/2013

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, 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

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

							OPERATOR			al Report		Final Repor
Name of Co	Name of Company Oxy Permian Ltd.						Contact CJ Summers					
Address							Telephone No. (575) 397-8216					
Facility Nar	ne Ceda	r Canyon 28	Federal #	4 4		Facility Type Gathering						
Surface Ow	ner BL	M	-4	Mineral O	wner				Lease 1	No. NM 946	551	
				LOCA	TIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/	West Line	County		
K	28	248	29E	1980'		South	1950'		West	Eddy		
			I	atitude <u>N 32.18</u>	3629°	Longitu	ide W 103.9915			,,		
				NAT	URI	E OF REL	EASE					
Type of Relea	ase Prod	uced water				Volume of		ls	Volume I	Recovered	0 bbls	_
Source of Re	lease Val	ve on suction	ine left op	en		Date and F 08/14/2012	lour of Occurrence	e	Date and	Hour of Disc	covery	, , , , ,
Was Immedia	ite Notice (Vac [No 🔲 Not Re		If YES, To	Whom? ther- OCD; James	Amor	DIM			
			165		quirec							
By Whom? Was a Watero							lour 08/14/2012 dume Impacting t					
was a watero	course Kead		Yes 🏻	No		II IES, VC	nume impacting t	ne wai	ercourse.	RECE	IVE	EDI
If a Watercou	rse was Im	pacted, Descri	be Fully.*						İ	SEP 27	7 204	7
							•		NN	10CD A	RTE	SIA
Describe Cau	se of Probl	em and Remed	lial Action	Taken.*								-
The valve on	a 1" steel s	nction line bet	ween the	riplex pump and t	ank w	as left onen wi	nich caused 80 bb	ls of wa	ater to spill	onto the gro	und. O	bbls of
				revent further lea			500500		10 op	00 a.e g. 0		
Describe Area	Affected :	and Cleanup A	ction Tak	en.*		·····				<u> </u>		
The area offer	stad by the	20 bble leak is	annrovin	nately 40' x 100'.	Dem	ediation will be	nerformed in acc	-o r dano	e with an C	CD and RU	Manne	rovad
remediation p		oo oois icak is	арргохии	atory 40 x 100.	Rem	Allation will be	performed in acc	Jordani	c with an C		vi appi	Oven
				is true and comple								
				d/or file certain re e of a C-141 r e por								
				investigate and re								
or the environ	ment. In a	ddition, NMO	CD accept	ance of a C-141 r								
federal, state,	or local lay	vs and/or rogu	lations.				OTT (2017)	****** * :	(DIVITATA		
	(-	-					OIL CONS	SERV	ATION	DIVISIO	N	
Signature:												
Printed Name: Chancey Summers						Approved by District Supervisor:						
Title: HES	Specialist					Approval Date	e:]	Expiration I	Date:		-
E-mail Addres	s: Chan	cey.Summers@	oxy.com			Conditions of	Approval:					i
- ah	1/12			(575) 207 021			LF .			Attached	Ц	
Attach Additi	סוו <i>ע</i> onal Shee	ts If Necessa		ne: (575) 397-8216)							_

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

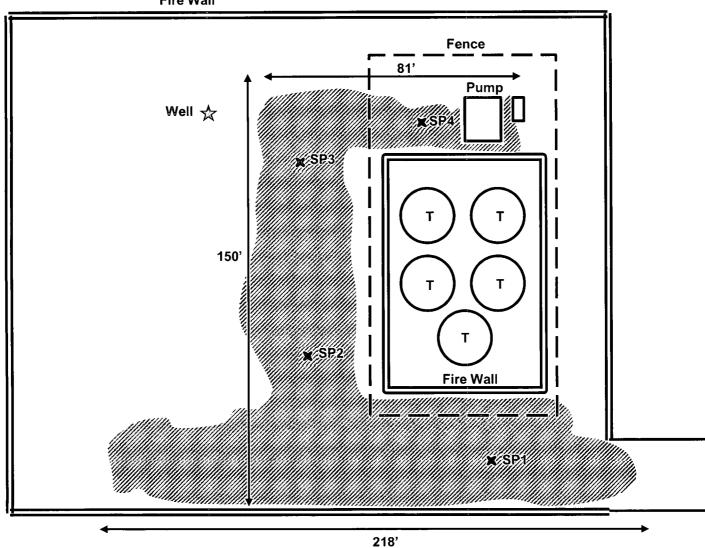
			Kei	ease Noth	сапо	n and Co	orrective A	ction				
						OPERA	TOR		Initial Report	\boxtimes	Final Repor	
Name of Co		Oxy Permia				Contact CJ Summers						
		tanolind Rd,				Telephone No. (575) 397-8216 Facility Type Gathering						
Facility Na	Facility Name Cedar Canyon 28 Federal #4						e Gathering					
Surface Ow	ner BL	М		Mineral (Owner			AP	(# 30-015-29)	118		
,				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/West Li	ne County			
K	28	248	29E_	1980'		South	1950'	West	Eddy			
	Latitude N 32.18629° Longitude W 103.99155°											
				NAT	URE	OF RELI						
Type of Rele		aced water				Volume of			ne Recovered	0 bbls		
		ve on suction	line left or	en		08/14/2012		e Date	and Hour of Dis	scovery		
Was Immedia	ate Notice C		v _{or} Γ	No □ Not Re	androd	If YES, To		Amor DIM				
			res	Not Re	quirea	IVIIKE Braic	her- OCD; James	Amos- BLIVI	_			
By Whom?						Date and H	our 08/14/2012	@ 12:58 pm				
Was a Water	course Reac	hed?	Yes 🛛	No		If YES, Vo	lume Impacting th	ne Watercourse	REC	=11/	Enl	
If a Watercou	rse was Im	pacted, Descri	be Fully.*			L		·	1			
							•		SEP :	27 20	013	
								!	NMOCD	ADT	TEOLA	
Describe Cau	na a C Dualala	us and Damani	lial A-tion	T-less *					MINICO	MI.	EQ:(4)	
Describe Cau	se of Frodic	in and Remed	iiai Action	raken.				•				
				riplex pump and (revent further lea		left open wh	ich caused 80 bbl	s of water to sp	oill onto the gro	und. 0 b	bbls of	
Describe Area	Affected a	nd Cleanup A	ction Take									
-		-									,	
The area affect Bratcher of N	ted by the 8 MOCD via	30 bbls leak is email on 01/2	approxim 4/2013 and	ately 40' x 100'. d approved by Jer	Remed nnifer V	iation was con an Curen of th	mpleted in accord ne BLM via email	ance with a rer on 03/25/2013	nediation plan a	approve	d by Mike	
I hereby certif	y that the in	formation giv	en above	is true and comple	ete to the	best of my k	nowledge and un	derstand that p	ursuant to NMC	OCD rul	es and	
regulations all	operators a	re required to	report and	l/or file certain re	lease no	tifications and	d perform correcti	ve actions for	releases which	may end	langer	
should their or	or the environer	onment. The a	icceptance legnately i	of a C-141 repor	t by the mediate	NMOCD mai	rked as "Final Rep n that pose a threa	port" does not i	relieve the operater	ator of li	iability	
or the environ	nont. In ad	dition, NMOC	D accepta	ince of a C-141 re	eport do	es not relieve	the operator of re	sponsibility for	r compliance w	ith any c	other	
federal, state,	ozlecal-law	s and/or regul	ations.									
				>			OIL CONS	<u>ERVATIO</u>	<u>N DIVISIO</u>	N		
Signature:												
Printed Name:	Chancey	Summers		···	A	pproved by D	istrict Supervisor	;				
Title: HES S	Specialist_	· · · · · · · · · · · · · · · · · · ·			A	pproval Date:		Expiratio	n Date:			
E-mail Address	s: Chance	ey.Summers@	oxv.com		C	onditions of A	Annroval:			·		
ala	1	-,				Januario of A	spprorum		Attached			
Date: 9/2 Attach Addition	4113	n I 6 NI a		e: (575) 397 - 8216								
Attach Additio	mai oneet	s ii inecessar	Υ									



Оху

Cedar Canyon 28 Federal #4





U/L K, Section 28, T24S, R29E 1980' FSL & 1980' FWL Eddy County, NM N 32.18629° W 103.99155° Lease # NM94651

BBC International, Inc.					
Оху					
Cedar Canyon 28 Federal #4					
Date: 08/17/12 DRWG by: K. Purvis					
NOT TO SCALE File: Oxy 2012					



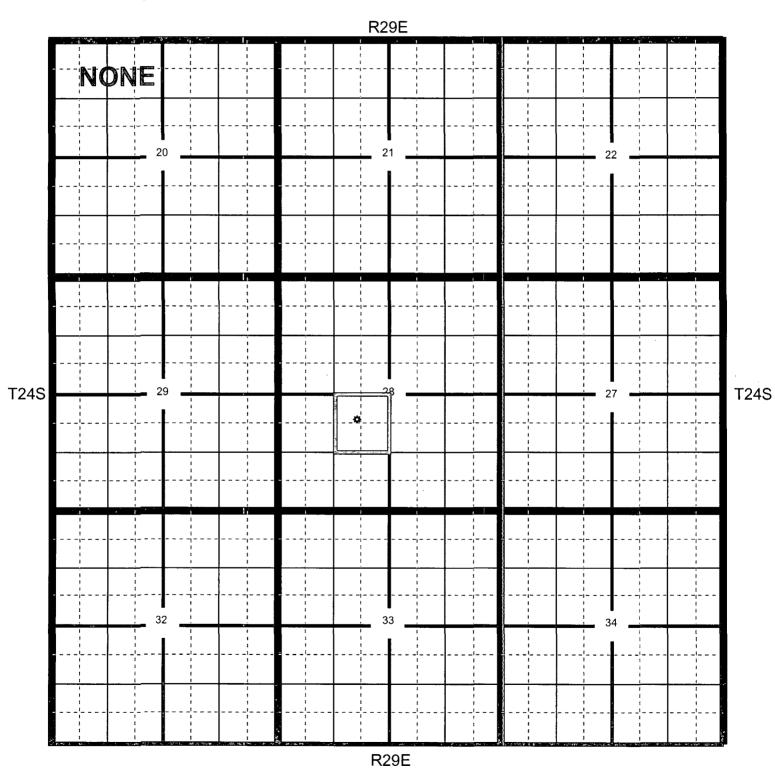
Groundwater Plot

Oxy Cedar Canyon 28 Federal #4

County Eddy *Unit Letter* K Section 28

Township 24S Range 29E

Trend Map 75'



‡ Location

o OCD

○USGS

○SEO

All Databases



Section Quarters

Oxy Cedar Canyon 28 Federal #4

County Eddy *Unit Letter* K Section 28

Township 24S Range 29E

Trend Map 75'

1

2

NW/NW	NE/NW	NW/NE	NE/NE
NONE		1 2 1 1 1 1	
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 SW/SW	Unit Letter K SE/SW	Unit Letter J SW/SE	Unit Letter I SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

♣ Location

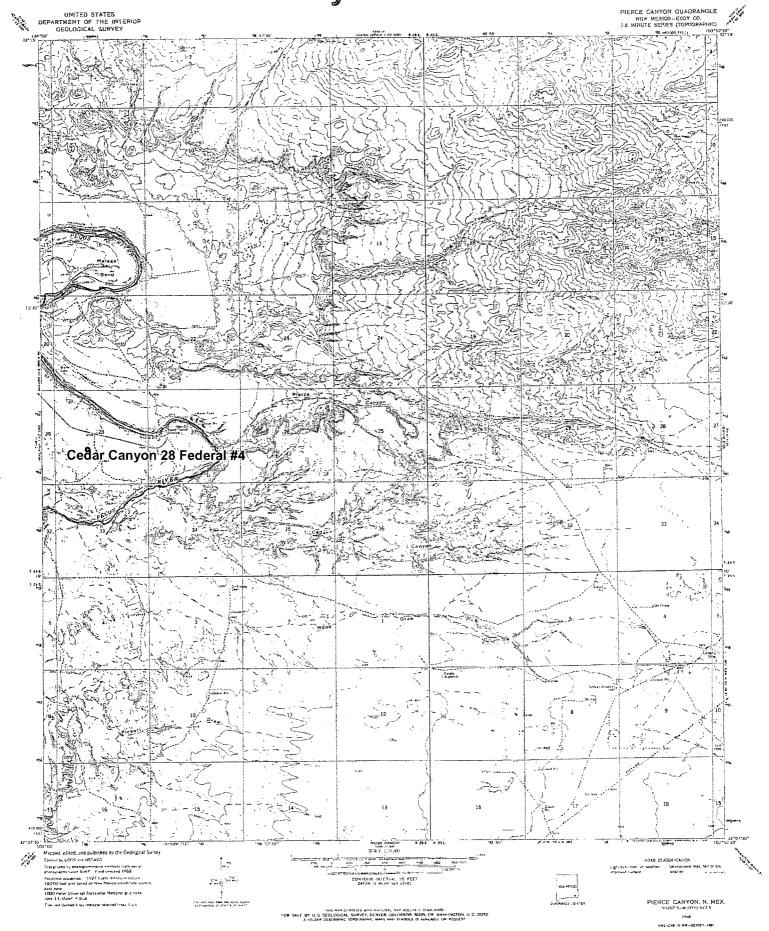
 \circ OCD

OUSGS

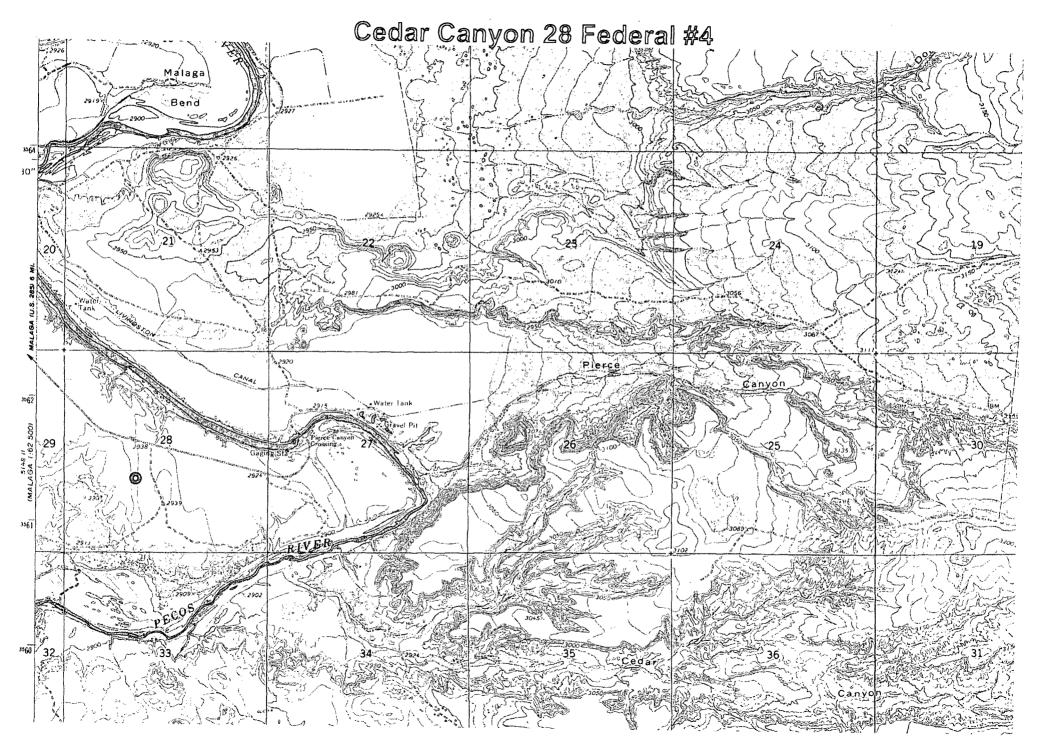
o seo

All Databases

Oxy Cedar Canyon 28 Federal #4



Oxy



Laboratory Analytical Results Summary OXY, Cedar Canyon 28 Federal #4 CTB

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 6'	SP1 @ 8'
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2320	592	480	32

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'	SP2 @ 8'
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12
		1	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
Chloride	SM4500CI-B		2520	608	448	16
GRO	TPH 8015M		<10.0	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	N/A	N/A	N/A

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 8'	SP3 @ 10'
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12	10/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4640	640	704	416	<16.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 6'	SP4 @ 8'	SP4 @ 10'
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12	10/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	N/A	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	N/A	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	N/A	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	N/A	N/A	N/A	N/A
Chloride	SM4500CI-B		3600	2280	720	1010	32
GRO	TPH 8015M		<10.0	N/A	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	N/A	N/A	N/A	N/A



October 17, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 28 FED#4 CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/11/12 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celeg D. Keine

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



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

Fax To: (505) 397-0397

Received:

10/11/2012

Sampling Date:

10/05/2012

Reported:

10/17/2012

Sampling Type:

Soil

Project Name:

CEDAR CANYON 28 FED#4 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 1 @ 1' (H202482-01)

Chloride,	SM4500CI-B
-----------	------------

mg/l	(
------	---

Analyzed By: AP

Analyte

Chloride

Chloride

Result

2320

Result

592

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed Method Blank 10/16/2012

BS 400

True Value QC

RPD 7.69 Qualifier

Sample ID: SP 1 @ 3' (H202482-02)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

Analyzed By: AP

Analyzed

10/16/2012

Method Blank

ND

ND

BS

400

100

% Recovery

% Recovery

100

400

True Value QC

400

400

Sample ID: SP 1 @ 6' (H202482-03)

Chloride, SM4500CI-B

Analyzed By: AP

Reporting Limit

Method Blank

BS % Recovery

RPD

7.69

Qualifier

Chloride

Result 480

16.0

Analyzed 10/16/2012

ND

400

True Value QC

RPD 7.69 Qualifier

Sample ID: SP 1 @ 8' (H202482-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Chloride

Result 32.0 Reporting Limit 16.0

Analyzed 10/16/2012 Method Blank ND

BS 400 % Recovery 100

100

True Value QC 400

RPD 7.69 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keene Celey D. Keene, Lab Director/Quality Manager

Page 2 of 10



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

Fax To: (505) 397-0397

Received:

10/11/2012

Sampling Date:

10/05/2012

Reported:

10/17/2012

Sampling Type:

Soil

Project Name:

CEDAR CANYON 28 FED#4 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 2 @ 1' (H202482-05)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/16/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PIL	105	% 89.4-12	6						
Chloride, SM4500CI-B	ma	/ka	Analyze	d Rv· AP					

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	10/16/2012	ND	400	100	400	7.69	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 69.3 % 65.2-140 Surrogate: 1-Chlorooctadecane 67.7 % 63.6-154

Sample ID: SP 2 @ 3' (H202482-06)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/16/2012	ND	400	100	400	3.92	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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

Fax To: (505) 397-0397

Received:

10/11/2012

Sampling Date:

10/05/2012

Reported:

10/17/2012

Sampling Type:

BS

400

% Recovery

100

Soil

True Value QC

400

RPD

3.92

Qualifier

Project Name:

CEDAR CANYON 28 FED#4 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

Analyte

Chloride

NOT GIVEN

Result

16.0

Reporting Limit

16.0

Sample ID: SP 2 @ 6' (H202482-07)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/16/2012	ND	400	100	400	3.92	
Sample ID: SP 2 @ 8' (-	/ka	Analyze	ed Bv: AP					

Method Blank

ND

Analyzed

10/16/2012

Sample ID: SP 3 @ 1' (H202482-09)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	10/16/2012	ND	400	100	400	3.92	

Sample ID: SP 3 @ 3' (H202482-10)

Chloride, SM4500CI-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/16/2012	ND	400	100	400	3.92	

Sample ID: SP 3 @ 6' (H202482-11)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/16/2012	ND	400	100	400	3.92	

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Celey D. Keene



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

Fax To: (505) 397-0397

Received:

10/11/2012

Sampling Date:

10/05/2012

Reported:

10/17/2012

Sampling Type:

Soil

Project Name:

CEDAR CANYON 28 FED#4 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

NOT GIVEN

Jodi Henson

Sample ID: SP 3 @ 8' (H202482-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Result

Method Blank

BS

% Recovery True Value QC RPD

Oualifier

Chloride

Chloride

416

16.0

Reporting Limit

10/16/2012

Analyzed

ND

400

100 400 3.92

Sample ID: SP 3 @ 10' (H202482-13)

Chloride, SM4500CI-B

Analyzed By: AP

Analyte	Result	Reporting Limit	
	<16.0	16.0	

Anaiyzed 10/16/2012

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD Qualifier

3.92

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Celeg & Keine

Page 5 of 10



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

Fax To: (505) 397-0397

Received: Reported: 10/11/2012

10/17/2012

Project Name: Project Number: CEDAR CANYON 28 FED#4 CTB NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Cool & Intact

10/05/2012

Jodi Henson

Sample Received By:

Sample ID: SP 4 @ 1' (H202482-14)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2012	ND	2.07	104	2.00	10.6	
Toluene*	< 0.050	0.050	10/16/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PIL	101 % 89.4-12		6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	10/16/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	84.7	% 65.2-14	0						,
Surrogate: 1-Chlorooctadecane	85.4	% 63.6-15	4						

Sample ID: SP 4 @ 3' (H202482-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	10/16/2012	ND	400	100	400	3.92	

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Celey D. Keene



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

Fax To:

(505) 397-0397

Received:

10/11/2012

Sampling Date:

10/05/2012

Reported:

10/17/2012

Sampling Type:

Soil

Project Name:

CEDAR CANYON 28 FED#4 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

BS

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 4 @ 6' (H202482-16)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Anaiyte

Result

720

Result

16.0 10/16/2012

Analyzed

Analyzed

Method Blank ND

400

% Recovery True Value QC

RPD

3.92

RPD

3.92

Qualifier

Sample ID: SP 4 @ 8' (H202482-17)

Chloride, SM4500CI-B

Analyte

Reporting Limit

Reporting Limit

Analyzed By: AP

. .

% Recovery

100

100

400

Chloride

Chloride

1010

16.0 10/16/2012

Method Blank ND BS 400 % Recovery 100

True Value QC

400

400

Qualifier

Sample ID: SP 4 @ 10' (H202482-18)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte Result Reporting Limit

Chloride 32.0 16.0

Analyzed 10/16/2012 Method Blank ND BS 400 True Value QC

C RPD

3.92

Qualifier

Cardinal Laboratories

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene

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.					ANALYSIS REQUEST														
Project Manager: Cliff Brunson												\$4 % F	. 4.5	1: "	. 423				
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Phone #: 575-3		575-397-0397		Addre	ss: 🧲	MA	/	1				l		ļ		l			İ
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CHECKED BY: (Initials)

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#26

Sample Condition
Cool Intact
Yes 12 Yes
No 1 No

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

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc.																									
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Page 10 of 10

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Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Sent: Thursday, January 24, 2013 4:17 PM

To: Cliff P. Brunson

Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis **Subject:** RE: Oxy-Cedar Canyon 28 Federal #4-Remediation Plan

Reference: OXY USA * Cedar Canyon 28 Fed 4 * 30-015-29118 * K-28-24s-29e * Eddy County, New Mexico

NMOCD Tracking Number: 2RP-1318 * Date of release: 8/14/12

Cliff,

Your proposal for remediation of the above referenced release is approved. The well site is situated on Federal surface and may 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, please contact me.

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

C: 575-626-0857 F: 575-748-9720

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

Sent: Monday, January 21, 2013 6:06 PM

To: Bratcher, Mike, EMNRD

Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis **Subject:** Oxy-Cedar Canyon 28 Federal #4-Remediation Plan

Mike.

This e-mail is to confirm our discussion on January 14, 2013 concerning the remediation plan for the release that occurred at the Oxy Cedar Canyon 28 Federal #4. I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Oxy will excavate 2 feet in the areas covered by SP1, SP2, and SP3 and will excavate 3 feet in depth in the area covered by SP4. As discussed, an initial response to the spill was done immediately after the spill occurred and 1 foot of the impacted soil has already been removed. The depth referred to earlier in this e-mail is the total depths that will be removed not additional to what has already been removed. The site will then be backfilled with clean soil. The depth to groundwater is this area is approximately 75 feet.

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

Oxy and I thank you for your assistance in handling this matter.

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: Ken Swinney <kswinney@bbcinternational.com>

Sent: Tuesday, April 02, 2013 11:03 AM

To: 'Kathy Purvis'

Subject: FW: remediation plans on the Cedar canyon 28-4 and Amax 24 -8`

From: Van Curen, Jennifer [mailto:jvancure@blm.gov]

Sent: Monday, March 25, 2013 12:11 PM

To: Chancey Summers; kswinney@bbcinternational.com; Jennifer Gilkey; Brunson **Subject:** Re: remediation plans on the Cedar canyon 28-4 and Amax 24 -8`

With the Amex plan, these are the minimal depths. There will need to be bottom and side samples for closure. I would think that the depths might need to be a foot on each area except the 7-9 which my thoughts are a foot. But if you get good results from the followup samples, we can back fill. It will be monitored that there are higher results at a lower depth from a past event, but if the OCD is not concerned with the lower depths, it is not a problem with the surface unless it prevents vegetation growth. If you have any questions please let me know.

JENNIFER E VAN CUREN
ENVIRONMENTAL PROTECTION SPECIALIST
DOI-BLM-CARLSBAD FIELD OFFICE
320 E GREENE ST. CARLSBAD, NM 88220
OFFICE- 575-234-5905
CELL - 575-361-0042
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On Mon, Mar 11, 2013 at 1:31 PM, Van Curen, Jennifer < <u>jvancure@blm.gov</u>> wrote: This is the first that I have heard of the Amax 24-8 spill. I will need to review it. The Cedar Canyon I visited.

This site also has some salt impacted soils on the north and south of the old pit area. I would also like to see this area addressed simultaneously. The berm along that edge will need to be removed due to be heavily salt impacted. Can you get back to me on this please? Thanks

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