Closure Report

Ĭ	RECEIVED
	FEB 1 0 2014
	NMOOD ARTESIA

	Site Description	FEB 1 V ZUI4 NAMOCD ARTESIA
Site Name:	Sand Dunes 34 Federal #2	I did on the second
Company:	Oxy Permian Ltd.	
Legal Description:	U/L H, Section 34, T23S, R31E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.26792° W 103.75925°	

1 an Vin 12 (1)	Release Data
Date of Release:	03/25/2013
Type of Release:	Produced Water
Source of Release:	Power failure at the transfer pump caused frac tank overflow
Volume of Release:	20 bbls
Volume Recovered:	0 bbls

Remediation Specifications						
Remediation	No remediation is required on the well pad. Per the verbal					
Parameters:	agreement between CJ Summers and Jennifer Van Curen: In					
the area represented by SP4-SP6, 2 feet of material will be						
removed, sidewall sampling will be performed, a liner will b						
	installed, and the excavated area will be backfilled with topsoil.					
Remediation Activities:	01/27/2014 to 01/30/2014					

Plan Sent to OCD:	09/21/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	10/04/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	09/21/2013	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	01/07/2014	Email from J. Van Curen to Cliff Brunson

Supporting Documentation				
Initial C-141	Signed 03/27/2013			
Final C-141	Signed 02/04/2014			
Site Diagram	March 2013			
Groundwater Plot	300'			
TOPO Maps	March 2013			
Lab Summary	04/03/2013-04/11/2013 and 01/27/2014			
Lab Analysis	04/03/2013-04/11/2013 and 01/27/2014			
Correspondence	Request and approval of remediation plan via email			

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

02/06/2014

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

Submit 2 Copies to appropriate District Office in accordance

Form C-141

Revised October 10, 2003

with Rule 116 on back side of form

Attached

Release Notification and Corrective Action OPERATOR Initial Report Final Report Contact CJ Summers Name of Company Oxy Permian Ltd. (575) 397-8216 Address 1017 W. Stanolind Rd, Hobbs, NM Telephone No. Facility Name Sand Dunes 34 Federal #2 Facility Type Battery Surface Owner BLM Mineral Owner Lease No. NM 43744 LOCATION OF RELEASE Unit Letter Township North/South Line East/West Line County Section Range Feet from the Feet from the 34 23S 31E Eddy Н Latitude N 32.26192° Longitude W 103.75925° NATURE OF RELEASE Volume Recovered Type of Release Produced water Volume of Release 20 bbls 0 bbls Source of Release Power failure at the transfer pump caused frac tank Date and Hour of Occurrence Date and Hour of Discovery overflow 03/25/2013 Was Immediate Notice Given? If YES, To Whom? Jennifer Van Curen, James Amos-BLM and Mike Bratcher-OCD By Whom? Chancey Summers Date and Hour 03/25/2013 @ 10:18 am Was a Watercourse Reached? If YES, Volume Impacting the Watercourse ☐ Yes 🛛 No RECEIVED If a Watercourse was Impacted, Describe Fully.* FEB 1 0 2014 NMOCD ARTESIA Describe Cause of Problem and Remedial Action Taken.* Power failure at the transfer pump caused the frac tank to overflow and spill 20 bbls of produced water onto the ground. No fluids were recovered and power to the transfer pump was restored. Describe Area Affected and Cleanup Action Taken.* Power failure at the transfer pump caused the frac tank to overflow and spill 20 bbls of produced water onto the ground. No fluids were recovered and power to the transfer pump was restored. Remediation will be performed in accordance with an approved plan from the 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. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Chancey Summers Title: HES Specialist Approval Date: **Expiration Date:**

Conditions of Approval:

Phone: (575) 397-8216

E-mail Address: Chancey.Summers@oxy.com

3-27-13

Attach Additional Sheets If Necessary

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

* Attach Additional Sheets If Necessary

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 October 10, 2003

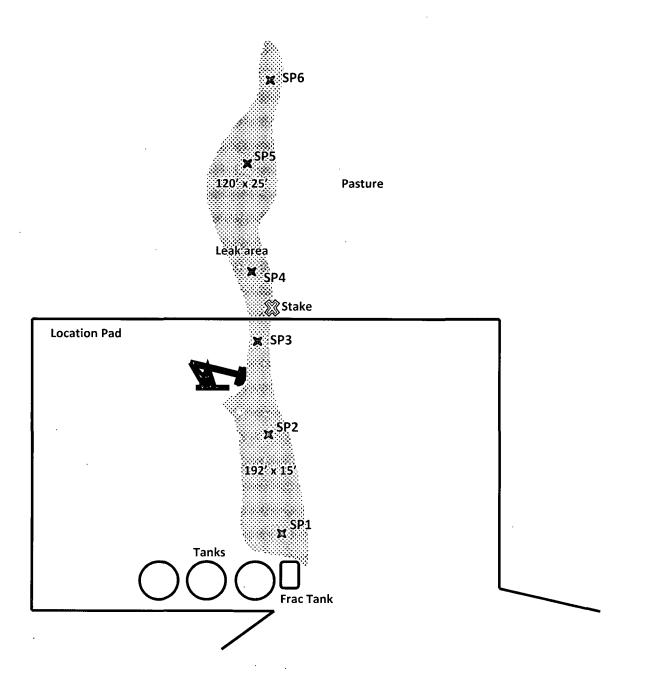
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

						OPERAT	ΓOR	I:	nitial Report	\boxtimes	Final Report
Name of Company Oxy Permian Ltd.						Contact C	J Summers				
Address 1017 W. Stanolind Rd, Hobbs, NM						Telephone N	No. (575) 397	-8216			
Facility Name Sand Dunes 34 Federal #2						Facility Typ	e Battery				
Surface Ow	Surface Owner BLM Mineral Owner							Leas	se No. NM	13744	
				LOCA	TION	N OF REI	LEASE				
						South Line	Feet from the	East/West Li	ne County		
Н	34	23S	31E						Eddy		
			I	atitude N 32.2	61 <u>92°</u>	Longitu	de <u>W 103.7592</u>	<u>5°</u>			
				NAT	URE	OF RELI	EASE				
Type of Relea	ase Produ	iced water				Volume of	Release 20 bbl	s Volur	ne Recovered	0 bbl	ls
Source of Rel	ease Powe	er failure at th	e transfer	pump caused frac	tank	Date and H 03/25/2013	our of Occurrence	e Date a	and Hour of E	iscovery	1
Was Immedia	te Notice C	Given?				If YES, To					
		⊠	Yes	No 🔲 Not Re	equired	Jennifer Va	in Curen, James A	Amos-BLM and	l Mike Bratch	er-OCD	
By Whom?	Chancey S	Summers				Date and H	our 03/25/2013	@ 10:18 am			
Was a Watero	course Reac						lume Impacting t				
		Ш	Yes 🏻	No							
If a Watercourse was Impacted, Describe Fully.*					· · · · · · · · · · · · · · · · · · ·	REC	EIVED				
								1		!	
								LEB .	0 2014		
Describe Cau			dial Action	Taken.*				NMOCD	ARTESI	Al —	
							•			المحد	
Power failure power to the t				c tank to overflow	and sp	ill 20 bbls of	produced water o	nto the ground.	No fluids w	re recov	ered and
power to the t	ransici pun	np was restore	u.								
Describe Area	Affected a	and Cleanup A	Action Tak	en.*							
Power failure	at the trans	fer numn caus	sed the fra	c tank to overflow	and sni	ill 20 bble of	oroduced water o	nto the around	No fluide w	2000 400	iered and
power to the t	ransfer pun	np was restore	ed. Reme	diation was comp	leted in	accordance w	ith a remediation	plan approved	by Mike Brai	cher of 1	NMOCD via
email on 10/0	4/2013 and	approved by	Jennifer V	an Curen of the B	BLM via	email on 01/	07/2014.	•	•		
I hereby certif	fy that the in	nformation give	ven above	is true and compl	ete to th	e best of my	knowledge and u	nderstand that i	oursuant to N	MOCD r	ules and
regulations al	l operators a	aré required to	report an	d/or file certain re	elease no	tifications an	d perform correc	tive actions for	releases which	h may ei	ndanger
public health	or the envir	onment. The	acceptanc	e of a C-141 repo	rt by the	NMOCD ma	irked as "Final Re	eport" does not	relieve the op	erator of	f liability
should their o	perations ha	ave failed to a	dequately	investigate and re	mediate	contamination	on that pose a thre	eat to ground w	ater, surface	vater, hu	man health
				tance of a C-141 r	ероп ас	es not reneve	tne operator of r	esponsibility to	or compitance	with any	y otner
federal, state, or local laws and/or regulations						OIL CONS	SERVATIO	N DIVIS	ON		
S:	······································		1					· · · · · · · · · · · · · · · · · · ·			
Signature:											
Printed Name	: Chance	y Summers				Approved by	District Superviso	or: 			
Title: HES	Specialist				l A	Approval Date	e:	Expirati	on Date:		-
			@avv. aa					L			
E-mail Addres	-	cey.Summers(woxy.com	<u> </u>	— '	Conditions of	Approvai:		Attache	:d 🔲	
Date:	-4-13	Y .	Pho	ne: (575) 397-821	6						



Oxy
Sand Dunes 34 Federal #2



U/L H, Section 34, T23S, R31E Eddy County, NM

N 32.26192° W 103.75925°

BBC International, Inc.					
Оху					
Sand Dunes 34 Federal #2					
Date: 03/28/2013 DRWG by: K. Purvis					
NOT TO SCALE	File: Oxy 2013				



Section Quarters

Oxy Sand Dunes 34 Federal #2 CTB

County Eddy *Unit Letter* H Section 34 Township 23S Range 31E

Trend Map

300'

1

7

NW/NW	NE/NW	NW/NE	NE/NE
None			
Unit Letter D	¦ Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
			Constant Springer
			يامر
		; ; ;	*
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NEZSE
, , ,		,	
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

♣ Location

o OCD

OUSGS

O SEO

All Databases



Groundwater Plot

Oxy Sand Dunes 34 Federal #2 CTB

County
Eddy County

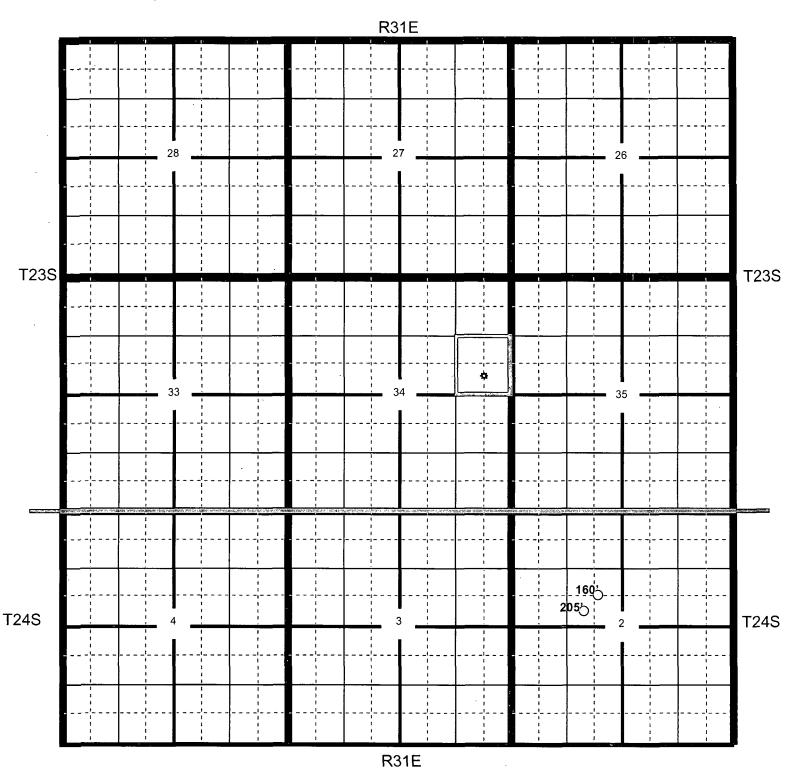
Unit Letter H Section 34

Township 23S

Range 31E

Trend Map

300'



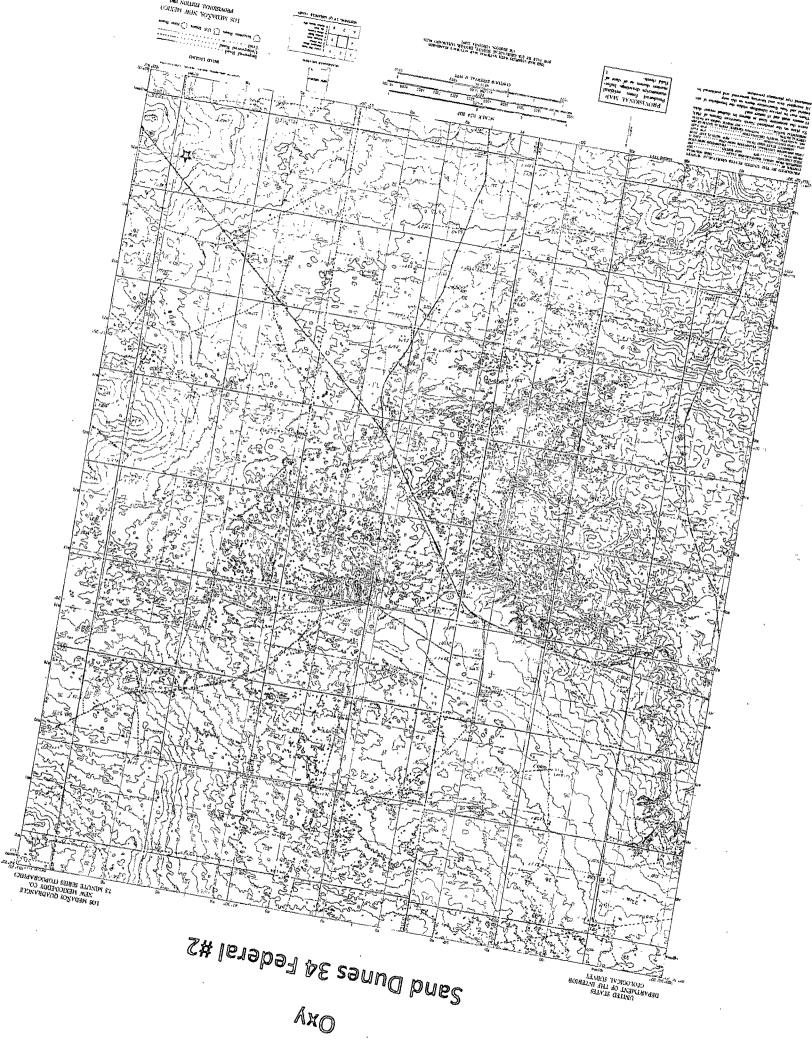
◆ Location

o OCD

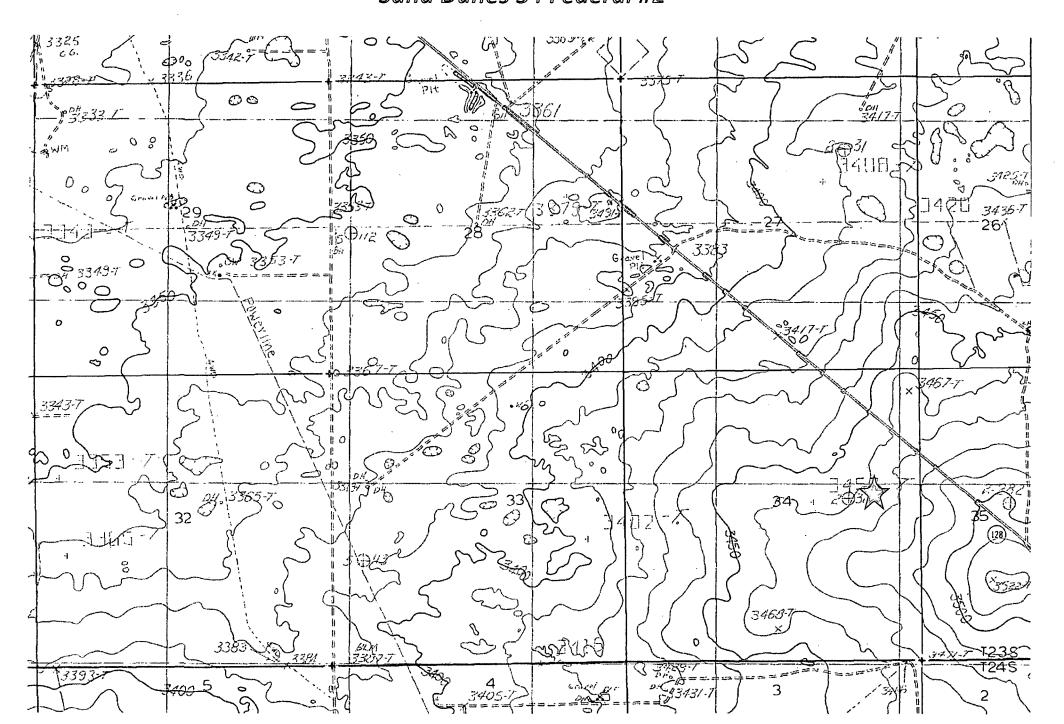
OUSGS

OSEO

All Databases



Oxy
Sand Dunes 34 Federal #2



Laboratory Analytical Results Summary SAND DUNES 34 FED #2

		Sample	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	4/3/13	4/3/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		· n/a	<0.050
Ethylbenzene	BTEX 8021B	<u> </u>	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	< 0.300
Chloride	SM4500CI-B		160	<16.0
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0

		Sample	SP2 @ 1'	SP2 @ '
Analyte	Method	Date	4/3/13	4/3/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500CI-B		176	<16.0
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	24

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	4/3/13	4/3/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500CI-B		192	<16.0
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M	,	n/a	<10.0

Laboratory Analytical Results Summary SAND DUNES 34 FED #2

		Sample	SP4 @ 2'	SP4 @ 4'	SP4 @ 7'	SP4 @ 9'
Analyte	Method	Date	4/3/13	4/3/13	4/11/13	4/11/13
			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	SM4500CI-B		21000	26400	1490	1120
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 4'	SP5 @ 7'	SP5 @ 9'
Analyte	Method	Date	4/3/13	4/3/13	4/11/13	4/11/13
			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	SM4500CI-B		12200	24800	1440	1260
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	SP6 @ 2'	SP6 @ 4'	SP6 @ 7'	SP6 @ 9'
Analyte	Method	Date	4/3/13	. 4/3/13	4/11/13	4/11/13
			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	SM4500CI-B		18400	19200	1440	1010
GRO	TPH 8015M		10	n/a	n/a	n/a
DRO	TPH 8015M		10	n/a	n/a	n/a

Laboratory Analytical Results Summary Sand Dunes 34 Federal #2 CTB

		Sample	SP1	SP2	SP3	SP4
Analyte	Method	Date	1/27/14	1/27/14	1/27/14	1/27/14
		1	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		<16.0	<16.0	<16.0	<16.0



April 12, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: 34 FED #2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/09/13 9:05.

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 accred 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:

(575) 397-0397

Analyzed By: DW

Received:

Chloride, SM4500CI-B

04/09/2013

Reported:

04/12/2013 34 FED #2 CTB

Project Name: Project Number:

NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sampling Date:

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 1 @1' (H300843-01)

Cilioride, SPI4300CFB	11197	ng .	Andryzo	u Dy. D11					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/10/2013	ND	432	108	400	0.00	
Sample ID: SP 1 @2' (H300843	-02)				,				
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	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	<0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	'kg	Analyze	d By: DW		,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	04/10/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d Bý: MS		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	04/11/2013	ND	222	111	200	5.04	
DRO >C10-C28	<10.0	10.0	04/11/2013	ND	218	109	200	5.96	
Surrogate: 1-Chlorooctane	92.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 9	% 63.6-15	4						

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 waved 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 intermiptions, loss of use, or loss of profits incurred by client, its subcladaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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 Laboratomes.

Celey & Kune



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

Fax To:

(575) 397-0397

Received:

04/09/2013

Reported:

04/12/2013

Project Name: Project Number: 34 FED #2 CTB NONE GIVEN

100 %

89.4-126

Project Location:

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

NOT GIVEN

Sample ID: SP 2 @1' (H300843-03)

Chloride, SM4500CI-B mg/kg			Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/10/2013	ND	. 432	108	400	0.00	

Sample ID: SP 2 @2' (H300843-04)

Surrogate: 4-Bromofluorobenzene (PIL

BTEX 8021B	mg	mg/kg		Analyzed By: AP				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD.	Qualifier
Benzene*	<0.050	0.050	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	<0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW			•	,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/10/2013	. ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					

1PH 8013M	ilig	ky	Analyzet	i by: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/11/2013	ND	222	111	200	5.04	
DRO >C10-C28	24.0	10.0	04/11/2013	ND	218	109	200	5.96	

Surrogate: 1-Chlorooctane 94.0 % 65.2-140 Surrogate: 1-Chlorooctadecane 117% 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any 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



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

Fax To:

(575) 397-0397

Analyzed By: DW

Received:

Chloride, SM4500Cl-B

04/09/2013

Reported:

04/12/2013

Project Name: Project Number: 34 FED #2 CTB NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 @1' (H300843-05)

Chieffacy of this occin	9/	···9	Fallaryze	a 57. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/10/2013	ND	432	108	400	0.00	
Sample ID: SP 3 @2' (H300843	-06)								
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	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	< 0.150	0.150	04/11/2013	. ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/10/2013	ND	432	108	400	0.00	
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	04/11/2013	ND	222	111	200	5.04	
DRO >C10-C28	<10.0	10.0	04/11/2013	ND	218	109	200	5.96	
Surrogate: 1-Chlorooctane	92.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 5	% 63.6-15	4						

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 subclidaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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



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

Fax To: (575) 397-0397

Received:

04/09/2013

Reported: Project Name: 04/12/2013 34 FED #2 CTB

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @2' (H300843-07)

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	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	<0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	· Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21000	16.0	04/10/2013	ND	432	108	400	0.00	
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	04/11/2013	ND	222	111	200	5.04	
DRO >C10-C28	<10.0	10.0	04/11/2013	ND	218	109	200	5.96	
Surrogate: 1-Chlorooctane	92.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	% 63.6-15	4						

Sample ID: SP 4 @4' (H300843-08)

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	04/10/2013	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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

Fax To: (575) 397-0397

Received:

04/09/2013

Sampling Date: Sampling Type: 04/03/2013

Reported:

BTEX 8021B

04/12/2013

Sampling Condition:

Soil

Project Name: Project Number: 34 FED #2 CTB NONE GIVEN

mg/kg

Sample Received By:

Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 5 @1' (H300843-09)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4,40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	<0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	04/10/2013	ND	432	108	400	0.00	4
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	mg , Result	/kg Reporting Limit	Analyze Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyzed By: AP

Surrogate: 1-Chlorooctane

DRO >C10-C28

90.1 %

<10.0

65.2-140 63.6-154

04/11/2013

10.0

Surrogate: 1-Chlorooctadecane

115%

Sample ID: SP 5 @4' (H300843-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	04/10/2013	ND	432	108	400	3.77	

ND

210

105

200

3.26

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



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

Fax To:

(575) 397-0397

Received:

04/09/2013

Reported:

04/12/2013

Project Name: Project Number: 34 FED #2 CTB NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 6 @2' (H300843-11)

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	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	<0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	% : 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	04/10/2013	ND	432	108	400	3.77	
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	04/11/2013	ND	214	107	200	1.94	
DRO >C10-C28	<10.0	10.0	04/11/2013	ND	210	105	200	3.26	
Surrogate: 1-Chlorooctane	82.75	% 65.2-14	0			***************************************			
Surrogate: 1-Chlorooctadecane	111 %	63.6-15	4						*

Sample ID: SP 6 @4' (H300843-12)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	04/10/2013	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keens



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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 subcidiaries, 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 Laboratones.

Celey D. Keene

A.			
125			
A	RDINAL	LABOR	ATORIES
	101 East N	larland, Ho	bbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476	/0
Company Name: BBC International, Inc.	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:
Address: P.O. Box 805	Company:
City: Hobbs State: NM Zip: 88241	Attn:
Phone #: 575-397-6388 Fax #: 575-397-0397	Address: SAME
Project #: Project Owner: DXY	City:
Project Name: 34 FEO # 2 CTB	State: Zip:
Project Location:	Phone #:
Sampler Name: Rooto Hopmando	Fax#:
FOR LAB USE ONLY MATRIX	PRESERV SAMPLING
OMP S	
Tap I.D. Sample I.D. #CONTAINERS GROUNDWATER WASTEWATER SOIL.	
Lab I.D. Sample I.D.	
H € CONTAINE (G) RAB OR (G) RAB	SLUDGE OTHER: ACIDIBASE: OTHER: OTHER: OTHER:
7 611	V 4.3.13 970 V
350201' =1	4.5 1 10 CT
4 2' 61 1	V 19:3:18 17:50 V
55031 611	V 4.3.1 17/8 2
6 2.	1 4.3.0 1232 2 2
7 58402	1 4.3.13 1750 2 2
8 64 61	1 4.5.3 109
9 5pc 1. 21 V	1 4.3.13 135 - 0
ID PC 4. EII	1 43.152 6

PLEASE NOTE: Utability 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 the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinguished By:	P. 9.12	Received By:	o upon any or the above stated re	Phone Result: Fax Result:	☐ Yes	□ No	Add'l Phone #:	·	
K3H3	19:05	wai He	won	REMARKS:	. res	LI NO	Add'l Fax #:		
Relinquished By:	Date:	Received By:		,			, '.		
	Time:		•				•		
Delivered By: (Circle One)		Sample Condition	CHECKED BY:						
Sampler - UPS - Bus - Other:		Cool Intact Yes Yes No No			_			· · · · · · · · · · · · · · · · · · ·	

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

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393	-2476		
Company Name: BBC International, Inc.		BULTO	ANALYSIS REQUEST V
Project Manager: Cliff Brunson		P.O. #:	
Address: P.O. Box 805		Company:	
city: Hobbs State: N	M zip: 88241	Attn:	
	575-397-0397	Address: SAME	
Project #: Project O	wner: OX Y	City:	
	CTR	State: Zip:	
Project Location:	·	Phone #:	
Sampler Name:		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
	OMP		9 4 M.
Lab ID Commist D	RAB OR (C)C ONTAINERS OUNDWATE STEWATER L		7073
Lab I.D. Sample I.D.	ATAIN JNDW EWA'	R. SOO SOO S	
H300843	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL	ACID/BASE: OTHER: OTHER: SMILL	9 1
11 50 02		12.2 6.3.1	
17 04'	21	0 4.3.13 244	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive rem			

Relinquished By:	Date .9.13	Received By:	Phone Result: Fax Result:	☐ Yes	□ No	Add'l Phone #: Add'l Fax #:		
Rather	19:03	Was Henson	REMARKS:					
Relinquished By:	Date:	Received By:				•		
	Time:							
Delivered By: (Circle One)		Sample Condition CHERKED BY:	· ·					
Sampler - UPS - Bus - Other:		Cool Infact (Initials) (Initials) No No No						٠.
	·			_			····	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-398-2476



April 19, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 34 FED #2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/15/13 9:40.

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. Keene

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:

(575) 397-0397

Received:

04/15/2013

Sampling Date:

04/11/2013

Reported:

04/19/2013

Sampling Type:

Soil

Project Name:

SAND DUNES 34 FED #2 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP 4 @ 7' (H300896-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW				···	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	04/17/2013	. ND	432	108	400	0.00	
Sample ID: SP 4 @ 9' (H3	800896-02)							•	
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW			A		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	04/17/2013	ND	432	108	400	0.00	
Sample ID: SP 5 @ 7' (H3	800896-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	04/17/2013	ND	432	108	400	0.00	
Sample ID: SP 5 @ 9' (H3	300896-04)			,					
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	04/17/2013	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



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

Fax To:

(575) 397-0397

Received:

04/15/2013

Sampling Date:

04/11/2013

Reported:

04/19/2013

Sampling Type:

Soil

Project Name:

SAND DUNES 34 FED #2 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP 6 @ 7' (H300896-05)

	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	04/17/2013	ND	432	108	400	0.00	
	•								
Sample ID: SP 6 @ 9' (H3	00896-06)								
Sample ID: SP 6 @ 9' (H3 Chloride, SM4500Cl-B	00896-06) mg	/kg	Analyze	d By: DW	_				
•	•	/kg Reporting Limit	Analyze Analyzed	d By: DW Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories *=Accredited Analyte

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Celey T. Keine



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

PLEASE NOTE: Liability and Damages. Cardinal's flability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount pad 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 subcidiaries, 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 & Keine

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.			ANALYSIS REQUEST
Project Manager: Cliff Brunson		P.O. #:	
Address: P.O. Box 805		Company:	
city: Hobbs State	e: NM zip: 88241	Attn: SAME	
	: 575-397-0397	Address:	
Project #: Project	ct Owner: OKV_	City:	
Project Name: SAUP DUNES 34	4 FEO# 2	State: Zip:	
Project Location:		Phone #:	
Sampler Name: QCEP H	ernandez	Fax #:	<u> </u>
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL SLUDGE	PRESERV. SAMPLING OTHER: ACID/BASE: AC	
3 5050 Z'	61	1 41113 118	
υ ορύο q' 6 ορίο q'	6 1 V	V 4.11.13 148 V 4.11.13 246 V 4.11.13 308	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive			

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any card waters in singly whether based in contract or fort, shall be littled to it may be intered to the amount paid by the client in the analyses. All clients including those for neglegence and any other cause whatsoever shall be determed whites made in writing and necewided by Cardinal within 30 days after compelled on 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.

Relinquished By:	Date: 15-13	Received By:		Phone Result: Fax Result:	☐ Yes	□ No	Add'l Phone #: Add'l Fax #;		
fice Hos	TO 40	Wall All	Moon	REMARKS:			AMOUNT BATT.		· · · · · · · · · · · · · · · · · · ·
Relinquished By:	Date:	Received By:		-				•	
	Time:								
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact Yes Yes No No	CHECKED BY:				,	• . • .	

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





January 29, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 34 FED #2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/28/14 8:05.

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/ga/lab accred 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.

Celey D. Keene

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:

(575) 397-0397

Received:

Chloride, SM4500CI-B

Chloride

01/28/2014

Sampling Date:

01/27/2014

Reported:

01/29/2014

Sampling Type:

BS

416

% Recovery

104

Soil

True Value QC

400

RPD

0.00

Qualifier

Project Name:

SAND DUNES 34 FED #2 CTB

Reporting Limit

16.0

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Result

<16.0

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: SP 1 (H400264-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/29/2014	ND	416	104	400	0.00	
Sample ID: SP 2 (H400264-02	2)							٠	

Analyzed By: AP

Method Blank

ND

Analyzed

01/29/2014

Sample	ID:	SP	3	(H400264-03)

Analyte

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/29/2014	ND	416	104	400	0.00	

Sample ID: SP 4 (H400264-04)

Chioride, SM45UUCI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/29/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keens



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 D. Keens

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.	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:
Address: P.O. Box 805	Company:
City: Hobbs State: NM Zip: 88241	Attn:
Phone #: 575-397-6388 Fax #: 575-397-0397	Address: SANC
Project #: Project Owner:	City:
Project Name: SAND DINES 34 #2	State: Zip:
Project Location:	Phone #:
Sampler Name: KORNAPRINGNA?	Fax #:
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING
	St.UDGE OTHER: ACIDIBASE: ICE / CCOOL OTHER:
	V 1.7714 1:00 V
2502 3593	V 177141.15 V
	1 1 1 27 14 1 30 1
4594 311	1 1 1 27-14 1-45 1
	
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PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

	Date: 28.14	Received By:			□ Yes	□ No	Add'l Phone #: Add'l Fax #:	
The rander	Time: 05	year Ju	nson	REMARKS:			•	,
Relinquished By:	Date:	Received By:						
	Time:							
Delivered By: (Circle One)		Sample Condition Cool Intact	CHECKED BY:			•		
Sampler - UPS - Bus - Other:		TOU Tes Tres	1				<u>.</u>	
			7.1					

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



Kathy Purvis

From:

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

Sent:

Friday, October 04, 2013 2:42 PM

To:

Cliff P. Brunson

Cc:

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

Subject:

RE: OXY-Sand Dunes 34 Federal #2-Remediation Plan

Reference: OXY USA * Sand Dunes 34 Fed 2 * 30-015-27239 * H-34-23s-31e * Eddy County, New Mexico

OCD Tracking Number: 2RP-1610 * Date of release: 3/25/2013

Cliff,

Your proposal for remediation of the above referenced produced fluid release is approved. Please notify OCD prior to commencement of remedial activities. BLM approval is also required on federal sites.

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

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

Sent: Saturday, September 21, 2013 4:35 PM

To: Bratcher, Mike, EMNRD

Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis Subject: OXY-Sand Dunes 34 Federal #2-Remediation Plan

Mike,

This e-mail is to confirm our conversation the other day about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, in the former pit area located to the north of the well pad, Oxy will remove 2 feet and then backfill with 1 foot of caliche and 2 feet of top soil. This area is represented by sample points SP4-SP6. The area on the well pad will not require any remediation as the sample data shows no impact.

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

Thanks, Cliff

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

E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From:

Van Curen, Jennifer <jvancure@blm.gov>

Sent:

Tuesday, January 07, 2014 4:02 PM

To:

Cliff P. Brunson

Cc:

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

Subject:

Re: OXY-Sand Dunes 34 Federal #2-Remediation Plan

This one might have been mixed up with the CTB. This one has high chlorides below the 2'. BLM requires 4' of clean material. If contaminants are still hot below that point, a barrier will need to be utilized. Caliche will be sufficient. You can backfill with half caliche and half topsoil. Well pad results are good and no further work is required.

If you have any questions please let me know. Thanks.

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 FAX - 575-234-5927

On Sat, Sep 21, 2013 at 4:30 PM, Cliff P. Brunson < <u>cbrunson@bbcinternational.com</u>> wrote: Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. In the former pit area located to the north of the well pad, Oxy will remove 2 feet and then backfill with 1 foot of caliche and 2 feet of top soil. This area is represented by sample points SP4-SP6. The area on the well pad will not require any remediation as the sample data shows no impact.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

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

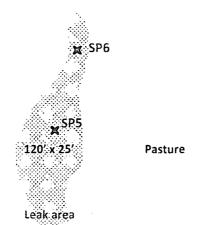
E-Mail: cbrunson@bbcinternational.com

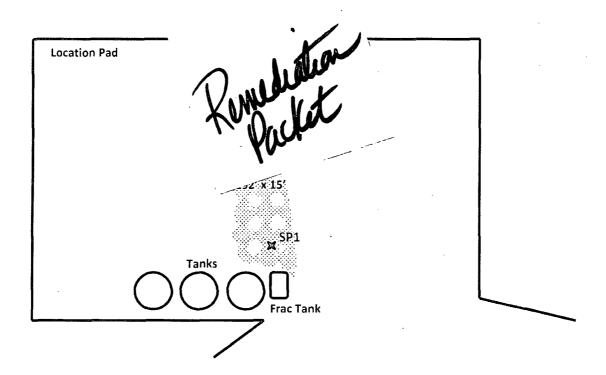
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Оху

Sand Dunes 34 Federal #2





U/L H, Section 34, T23S, R31E Eddy County, NM

N 32.26192° W 103.75925°

BBC International, Inc.						
Оху						
Sand Dunes 34 Federal #2						
Date: 03/28/2013 DRWG by: K. Purvis						
NOT TO SCALE File: Oxy 2013						



Groundwater Plot

Oxy Sand Dunes 34 Federal #2 CTB

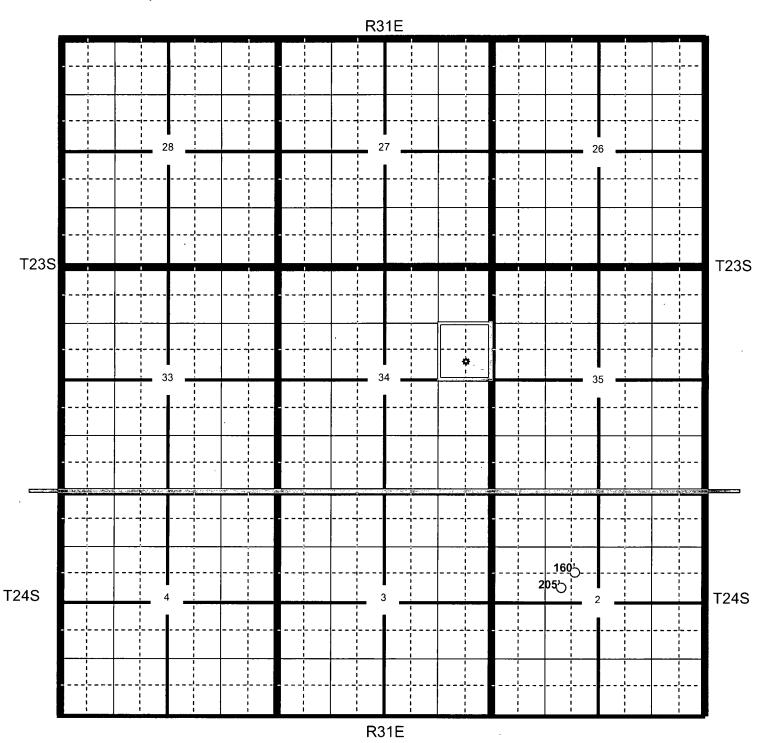
County
Eddy County

Unit Letter H Section 34

Township 23S Range 31E

Trend Map

300'



♣ Location

OCD

OUSGS

OSEO

All Databases



Section Quarters

Oxy Sand Dunes 34 Federal #2 CTB

County Eddy Unit Letter

Section 34

Township 23S Range 31E

Trend Map 300'

1

2

	, , , ,		
NWNW	NE/NW	NW/NE	NE/NE
None			
Unit Letter D SW/NW	Unit Letter C SE/NW	Unit Letter B SW/NE	Unit Letter A
SWATOW	SEAIN W	SW/NL	SEATURE
Unit Letter E NW/SW	Unit Letter F NE/SW	Unit Letter G NW/SE	Unit Letter H NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SEASW	SW/SE	SE∤SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

♣ Location

 \circ OCD

o USGS

O SEO

All Databases

Laboratory Analytical Results Summary SAND DUNES 34 FED #2

			SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	4/3/13	4/3/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500CI-B		160	<16.0
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0

		Sample	SP2 @ 1'	SP2 @ '
Analyte	Method	Date	4/3/13	4/3/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500CI-B		176	<16.0
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	24

		Sample	ŠP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	4/3/13	4/3/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500CI-B		192	<16.0
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0

Laboratory Analytical Results Summary SAND DUNES 34 FED #2

		Sample	SP4 @ 2'	SP4 @ 4'	SP4 @ 7'	SP4 @ 9'
Analyte	Method	Date	4/3/13	4/3/13	4/11/13	4/11/13
			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	SM4500CI-B		21000	26400	1490	1120
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 4'	SP5 @ 7'	SP5 @ 9'
Analyte	Method	Date	4/3/13	4/3/13	4/11/13	4/11/13
			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	SM4500CI-B		12200	24800	1440	1260
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	SP6 @ 2'	SP6 @ 4'	SP6 @ 7'	SP6 @ 9'
Analyte	Method	Date	4/3/13	4/3/13	4/11/13	4/11/13
			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	SM4500CI-B		18400	19200	1440	1010
GRO	TPH 8015M		· 10	n/a	n/a	n/a
DRO	TPH 8015M	1	10	n/a	n/a	n/a



April 12, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: 34 FED #2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/09/13 9:05.

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 accred 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 & 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: (575) 397-0397

Received:

04/09/2013

Sampling Date:

04/03/2013

Reported:

04/12/2013

Sampling Type:

Soil

34 FED #2 CTB

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sampling Condition:

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 1 @1' (H300843-01)

Chloride, SM4500CI-B

mg/kg

Reporting Limit

Analyzed By: DW

Analyte

Chloride

Result

160

16.0 04/10/2013

Analyzed

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

Qualifier RPD

0.00

Sample ID: SP 1 @2' (H300843-02)

BTEX 8021B	mg,	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	•
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	<0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					

Surrogate: 4-Bromofluorohenzene (PIL.

104%

89 4-126

Chloride, SM4500CI-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/10/2013	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	04/11/2013	, ND	222	111	200	5.04	
DRO >C10-C28	<10.0	10.0	04/11/2013	ND	218	109	200	5.96	

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

92.0 % 113 %

65.2-140 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey & Kuna



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

Fax To:

(575) 397-0397

Received: Reported: 04/09/2013

04/12/2013

Project Name: Project Number: 34 FED #2 CTB NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 2 @1' (H300843-03)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/10/2013	ND	432	108	400	0.00	
Sample ID: SP 2 @2' (H300843	-04)								
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	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29 .	115	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	< 0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100	% 89.4-12	6			•			
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/10/2013	ND	432	108	400	0.00	
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	04/11/2013	ND .	222	111	200	5.04	
DRO >C10-C28	24.0	10.0	04/11/2013	· ND	218	109	200	5.96	
	94.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	117	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keens



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

Fax To: (575) 397-0397

Received:

04/09/2013

Reported:

04/12/2013

Project Name: Project Number: 34 FED #2 CTB NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 3 @1' (H300843-05)

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW							
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		192	16.0	04/10/2013	ND	432	108	400	0.00	

Sample ID: SP 3 @2' (H300843-06)

Analyte	mg,	mg/kg		Analyzed By: AP					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	
Ethylbenzene*	< 0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	<0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					

ALL LL CILLEGE D			
Surrogate: 4-Bromofluorobenzene (PIC	101 %	89.4-126	

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/10/2013	ND	432	108	400	0.00	
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	04/11/2013	ND	222	111	200	5.04	
DRO >C10-C28	<10.0	10.0	04/11/2013	ND	218	109	200	5.96	
Surrogate: 1-Chlorooctane	92.9	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keine



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

Fax To:

(575) 397-0397

Received:

04/09/2013

Reported:

04/12/2013

Project Name: Project Number: 34 FED #2 CTB NONE GIVEN

112%

63.6-154

Project Location:

NOT GIVEN

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @2' (H300843-07)

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	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2,52	126	2.00	4.27	
Total Xylenes*	<0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21000	16.0	04/10/2013	ND	432	108	400	0.00	
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	04/11/2013	ND	222	111	200	5.04	
GNO CO CIO									

Sample ID: SP 4 @4' (H300843-08)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	04/10/2013	ND	432	108	400	0.00	

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Kune



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

Fax To: (575) 397-0397

Received: Reported: 04/09/2013

04/12/2013

Project Name: Project Number: 34 FED #2 CTB

Project Location:

NONE GIVEN

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

NOT GIVEN

115 %

63.6-154

Sample ID: SP 5 @1' (H300843-09)

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	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	< 0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6	-					
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	04/10/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Avaluta	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte									
GRO C6-C10	<10.0	10.0	04/11/2013	ND	214	107	200	1.94	

Sample ID: SP 5 @4' (H300843-10)

Surrogate: 1-Chlorooctadecane

hloride, SM4500Cl-B mg/kg		Analyze	d By: DW	_					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	04/10/2013	ND	432	108	400	3.77	

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:

(575) 397-0397

Received:

04/09/2013

Reported:

04/12/2013

Project Name: Project Number: 34 FED #2 CTB NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/03/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 6 @2' (H300843-11)

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	04/11/2013	ND	1.99	99.3	2.00	4.07	
Toluene*	<0.050	0.050	04/11/2013	ND	2.29	115	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/11/2013	ND	2.52	126	2.00	4.27	
Total Xylenes*	<0.150	0.150	04/11/2013	ND	7.34	122	6.00	4.96	
Total BTEX	<0.300	0.300	04/11/2013	ND					

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	04/10/2013	ND	432	108	400	3.77	
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	04/11/2013	ND	214	107	200	1.94	
DRO >C10-C28	<10.0	10.0	04/11/2013	ND	210	105	200	3.26	

Surrogate: 1-Chlorooctane

82.7%

65.2-140

Surrogate: 1-Chlorooctadecane

111 %

63.6-154

Sample ID: SP 6 @4' (H300843-12)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	04/10/2013	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keine

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 SM4500CI-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. Keens

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST
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35 - 2
52 2

PLEASE NOTE: Liability and Damages, Cardinar's liability and client's exclusive remedy for any dain arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cerdinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without fination, 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 Relingsiished By:	7.9.12	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:	
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Sampler - UPS - Bus - Other.		9 H No H No	GAN					·

[†] 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

Company Name	BBC Internationa	al, Inc.							8	ll To		MERC				ANA	LYSIS	S RE	QUE	ST			7
	Cliff Brunson						P.	0. #:															
Address: P.O.	Box 805			-			Co	mpa	ny:				1			·. ·					1		
city: Hobbs		State: NM	Zip:	882	241 ·		At	tn:									٠.		l				
Phone #: 575-3	397-6388	Fax #: 575	-397	-039	7		Ac	dres	s: '	SAN	1F					٠.		ļ]				
Project #:		Project Owne	r:	OX	y ·	-	Ci	l y :	•				'									. 1	
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Relinquished By:		Receive		d upon any of the above stated re	Phone Result: Fax Result:	☐ Yes	□ No	Add'l Phone #: Add'l Fax #:		
Pat 5	でつろ	400	the ste	nson	REMARKS:	L Tes	□ NO	Add Fax #;		· ·
Relinquished By:	Date:	Receive	d By:							,
	Time:						•		•	
Delivered By: (Circle One)			Sample Condition	CHECKED BY:			*	•	•	
Sampler - UPS - Bus - Other:		40	Yes Yes	and the second					•	

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



April 19, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 34 FED #2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/15/13 9:40.

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 accred 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.

Celey 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: (575) 397-0397

Received:

04/15/2013

Sampling Date:

04/11/2013

Reported:

04/19/2013

Sampling Type:

Soil

Project Name:

SAND DUNES 34 FED #2 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

RPD

Qualifier

Project Location:

EDDY COUNTY, NM

Sample ID: SP 4 @ 7' (H300896-01)

e, SM4500CI-B	
---------------	--

Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: DW			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC

Chloride 1490 16.0 04/17/2013 108 400 0.00 432

Sample ID: SP 4 @ 9' (H300896-02)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	04/17/2013	ND	432	108	400	0.00	

Sample ID: SP 5 @ 7' (H300896-03)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: DW			···		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	04/17/2013	ND ·	432	108	400	0.00	

Sample ID: SP 5 @ 9' (H300896-04)

Chloride, SM4500CI-B	mg/	kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	. 16.0	04/17/2013	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celey & Kune



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

Fax To: (575) 397-0397

Received:

04/15/2013

Sampling Date:

04/11/2013

Reported:

04/19/2013

Sampling Type:

Soil

Project Name:

SAND DUNES 34 FED #2 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

Analyte

EDDY COUNTY, NM

Sample ID: SP 6 @ 7' (H300896-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

Reporting Limit

Analyzed

Method Blank BS % Recovery

True Value QC 400

RPD Qualifier

Chloride

Result 1440

16.0

04/17/2013

ND

432

108

0.00

Sample ID: SP 6 @ 9' (H300896-06)

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyte	Analyte Result Re		Reporting Limit Analyzed		Method Blank BS		True Value QC	RPD	Qualifier
Chloride	1010	16.0	04/17/2013	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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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Celey & Keene

101 East Marland, Hobbs, NM 88240 (EDE) 202-2226 EAV (EDE) 303-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.	ANALYSIS REQUEST						
Project Manager: Cliff Brunson	P.O. #:						
Address: P.O. Box 805	Company:						
City: Hobbs State: NM zip: 88241	Attn: SAME						
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:						
Project #: Project Owner:	City:						
Project Name: SAND DUNES 34 FEO# 2	State: Zip:						
Project Location:	Phone #:						
Sampler Name: QCEQ HERMANGEZ	Fax #:						
COOM PORTER AND A STATE OF THE PROPERTY OF THE	PRESERV. SAMPLING						
I ah I D Sample I D Y Z Z Z Z Z	OTHER: ACIDIBASE: ICE / COOL OTHER: ATHER: A						
							
2 89' 61	9-11-13 1210						
35050 2' 61	(4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1						
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in co							

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:	Date: 15-13	Received By:		Phone Result: Fax Result:	☐ Yes	□ No.	Add'l Phone #: Add'l Fax #:		
free Hos	TU9:40	MY SIL	Moon	REMARKS:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Relinquished By:	Date:	Received By:		1				-	
	Time:								
Delivered By: (Circle One)	L	Sample Condition Cool Intact	CHECKER BY:						
Sampler · UPS · Bus · Other:		Yes Yes	GAR						

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

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 1220 S. St. Francis Dr., Santa Fe, NM 87505

Produced water

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 Submit 2 Copies to appropriate District Office in accordance

with Rule 116 on back side of form

Form C-141

Release Notification and Corrective Action															
OPERATOR Initial Report I												Final Repor			
Name of Co	mpany	Oxy Permia	n Ltd.			Contact CJ Summers									
Address 1017 W. Stanolind Rd, Hobbs, NM Telephone No. (575) 397-8216															
Facility Name Sand Dunes 34 Federal #2 Facility Type Battery															
Surface Ow	ner BLM		Mineral C	ON OF RE	LEASE		Lease	No. NM 43	744						
Unit Letter	Section	Township	Range	Feet from the	Nort	h/South Line	Feet from the	East/W	est Line	County					
Н	34	23S	31E							Eddy					
Latitude <u>N 32.26192°</u> Longitude <u>W 103.75925°</u>															

NATURE OF RELEASE

Volume of Release

20 bbls

Volume Recovered

Type of Release Source of Release Power failure at the transfer pump caused frac tank Date and Hour of Discovery Date and Hour of Occurrence 03/25/2013 overflow Was Immediate Notice Given? If YES, To Whom? Jennifer Van Curen, James Amos-BLM and Mike Bratcher-OCD By Whom? Chancey Summers Date and Hour 03/25/2013 @ 10:18 am Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Power failure at the transfer pump caused the frac tank to overflow and spill 20 bbls of produced water onto the ground. No fluids were recovered and power to the transfer pump was restored. Describe Area Affected and Cleanup Action Taken.* Power failure at the transfer pump caused the frac tank to overflow and spill 20 bbls of produced water onto the ground. No fluids were recovered and power to the transfer pump was restored. Remediation will be performed in accordance with an approved plan from the 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. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Chancey Summers Title: HES Specialist Approval Date: **Expiration Date:** E-mail Address: Chancey.Summers@oxy.com Conditions of Approval: Attached 3-27-Phone: (575) 397-8216 Attach Additional Sheets If Necessary