# **Closure Report**

RECEIVED FEB 1 4 2014

	Site Description . NMOCD ARTESIA
Site Name:	Righthand Canyon 35-7 SWD Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 35, T21S, R42E
County:	Eddy County, NM
GPS Coordinates:	N 32.43428° W 104.46979°

	Release Data
Date of Release:	06/30/2011 and 01/01/2014 (2 <sup>nd</sup> leak in exact same place)
Type of Release:	Produced water & oil, Produced water
Source of Release:	Gun barrel tank, tank overflow due to bad PLC card
Volume of Release:	800 bbls water & 100 bbls oil, 800 bbls water
Volume Recovered:	140 bbls total, 720 bbls

	Remediation Specifications  Execute to a depth of 1' in press of SB1 SB2 if to a depth of											
Remediation	Excavate to a depth of 1' in areas of SP1-SP3, & to a depth of											
Parameters:	2' in areas of SP4-SP6. Remove impacted gravel inside lined											
	battery and replace with appropriate clean material. Obtain											
	confirmation bottom & sidewall samples. Backfill excavations											
	w/ clean soil. Microblaze remaining TPH as needed.											
Remediation Activities:	12/9/2013 to 1/21/2014											

Plan Sent to OCD:	09/23/2012	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/13/2012	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	12/16/2012	Email from Cliff Brunson to James Amos
BLM Approval of Plan:	12/17/2012	Email from James Amos to Cliff Brunson

	Supporting Documentation
Initial C-141	Signed 07/06/2011, Signed 01/09/2014
Final C-141	Signed 02/12/2014 (both)
Site Diagram	January 2012, January 2014
Groundwater Plot	75'-80'
TOPO Maps	January 2012
Lab Summary	04/05/2012, 01/03/2014, 01/10/2014
Lab Analysis	04/05/2012, 01/03/2014, 01/10/2014
Correspondence	Request and approval of remediation plan via email

# Request for Glosure

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.

02/13/2014

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1600 Rio Brazos Road, Azioc, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87503

# 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
with Rule 116 on back
side of form

Form C-141

Revised October 10, 2003

Release Notification and Corrective Action

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			7	92463				<u></u>	7) IIIII	ат кероп		1, tirdi	repo
Address 15	02 W. Cor	nmerce Carls	bad. NM	88220				3-4100					<del></del>
Facility Na	me Right	hand Canyon	135-7										
Surface On	ner			Mineral	Owner				Lease 1	No. API: 30	01534	529	
	-			LOC	ATIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the			Feet from the	East/We	est Line	County			
	35	215	24R							Eddy			
<u></u> _	1 32	,		itude	<u> </u>	Longitud	le	•		1			
APPLE 11.23.23 POP OPERATOR													
Type of Rele	ase Produc	ed Water & O	il	1171.	·	Volume of oil	Release 800 water	Ī	Volume 1	Recovered	140		
Source of Re	lease Gun	Berrel Tank			*	Date and H	our of Occurrenc				covery		
Was Immedi	ate Notice (	Jiven?				If YES, To	Whom?		-30-11 (	ay 4. Uupun			
_			Yes 🔲	No 🔲 Not R	torings			m Amos-F	BLM				
										7:15 A			
Was a Water	course Reac	hed?	Yes 🏻	No		If YES, Vo	lume Impacting t	be Weterc	ourse.				
If a Watercon	rse was Im	pacted, Descri	be Fully.*			• •							
			. •						R	ECEI	VEI	כ	
					colled	to pick up reme	aining fluid.		NI	MOCD A	RTE	SIA	
Area affected approval by the	i was on an he state, the	d off of location area off location	n into the	pasture down th just before the n	avine w	ill be washed w	vith biodegradable	e soap. A	catchme	nt basin will	be instr	lied to	<b>D</b>
regulations all public health should their of or the environ	operators or the environment in ad- perations had ment. In ad-	ne required to connent. The a ve failed to ad dition, NMOC	report and ecceptance lequately i D accepta	Vor file certain r of a C-141 repo nvestigate and r	release n art by th emediat	etifications and e NMOCD ma e contamination	d perform correct rked as "Final Re n that pose a thre	ive action port" does at to grou	s for rele s not reli- nd water.	eases which reve the opera surface wat	nay end stor of l er, hum	anger iability an hes	y ·
	Velton Re					Approved by D	Signed By	alle			<u>N</u>		
						Accessed Data	AUG 1 1 20	11		······································			
11uc. 1113 Sp	Clause				<del>-   '</del>	Approva Laic	7100 1 7	EXP	nration 1.	Aste:			
E-mail Addres	s: kelton l	caird@oxy.co	<u> </u>							Attached			
Date: 7-6-11					R	emediation	per OCD Rules	5 &L					
Attach Additi	onal-Sheet	s if Necessar	,	•	Cuide	elines. SUBN	NIT REMEDIA: LATER THAN:	IOIA		2RF	0-8	28	2
										Leak 1	L		

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## 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													
						OPERA'	ΓOR	×	] Initi	al Report		Final Report		
Name of Co		Oxy Permia					Christopher Jone							
		ommerce D				Telephone I		3-4121						
Facility Na	me Righ	thand Canyo	on 35-7 S	WD Battery	l	Facility Typ	e Gathering			-				
Surface Ow	ner BLM			Mineral (	Owner				API No	.30-015-34	1529(n	earest well)		
					ATIO	N OF RE	LEASE			_				
Unit Letter	Section	Township	Range	Feet from the	North	n/South Line	Feet from the	East/Wes	t Line	County				
K	35	218	24E	,					·····	Eddy Cou	nty, NI	<u>И</u>		
				Latitude		Longi	tude	-						
				NAT	URE	OF REL								
Type of Rele						Volume of				Recovered	720 b			
Source of Re pumps so tan	ks spilled o	ver	on PLC c	aused power loss	to	01/01/2014		ce D	ate and	Hour of Dis	covery			
Was Immedi	ate Notice (		Yes [	] No □ Not R	equired	If YES, To Mike Brate	Whom? cher-NMOCD, Ja	mes Amos-	BLM					
By Whom?	Jennifer (	Gilkey, BBC I	nternation	al		Date and F	lour 01/02/201	4 @ 1:58 p	m -					
Was a Water		hed?				If YES, Volume Impacting the Watercourse.								
		. 🗆	Yes 🛚	No					D	ECEI	1 / 5-			
		pacted, Descr								FEB 14	2014	.		
A bad service	e card on the	e PLC caused	a power le	oss to the pumps of and the service			pill 800 bbls of pr	oduced wa				The state of the s		
The affected	area is appr		x 100' or	location. Remed		•		•	• • •	-				
regulations a	Il operators or the envir	are required to conment. The	o report ar acceptance	is true and comp ador file certain ree of a C-141 repo investigate and tance of a C-141	elease in the second of the se	notifications ar	nd perform correct arked as "Final R on that pose a three the operator of a	etive actions eport" does eat to grour responsibili	for rele not reli d water ty for co	eases which eve the oper surface wa ompliance w	may er ator of ter, hu tith any	idanger Tliability		
			1			_	OIL CONS	SERVA <sup>*</sup>	<u> </u>	DIVISIO	<u>N</u>			
Signature: Printed Name	e: Christo	pher Jones		\ .		Approved by	District Supervise	or:						
Title: HES	Specialist			)		Approval Dat	е:	Exp	iration l	Date:				
E-mail Addre	ess: Chris	topher_Jones(	@oxy.com	1		Conditions of	Approval:			Attached				

Phone: (575) 628-4121

District I 1625 N. French Dr., Hobbs, NM 88240 District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Robos, 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

			Rele	ease Notifi	cation	and Co	orrective A	ction				
	-					<b>OPERA</b>	<b>TOR</b>		] Initia	al Report	$\boxtimes$	Final Repor
Name of Co		Oxy Permi				Contact (	Christopher Jone	es				
		Commerce D		ad, NM		Telephone l		3-4121				
Facility Na	me Righ	thand Canyo	on 35-7			Facility Typ	e SWD					
Surface Ow	ner			Mineral (	Owner				API No	. 30-015-3	34529	
						OFRE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/We	est Line	County		
К	35	218	24E							Eddy Cou	nty, NN	1
			I	Latitude <u>N 32.4</u>	3428°	Longitu	ıde <u>W 104.4637</u>	<u> 190</u>				
			•	NAT	TURE	OF REL	EASE					
Type of Rele	ase Produ	iced water &	Oil			Volume of			Volume F	Recovered	140 bt	ols
Source of Re	lease Gu	n Barrel Tank					ater, 100 bbls oil		Date and	Hour of Dis	COVETY	
Bounde of Isa				•		Date und 1	ione or occurrence			11 @ 4:00 p		
Was Immedi	ate Notice (	Triven?				If YES, To	Whom?					
, to minous			Yes [	No D Not R	equired		cher- NMOCD, Ji	m Amos-	BLM			
By Whom?	Kelton B	eard (Oxy)				Date and H	lour 07/01/201	1 @ 7:15	am	DE		IVED
Was a Water	course Read		L 12 . 15 .	1 3 5		If YES, Vo	olume Impacting t	the Watero	course.	1 8 8 1		
			Yes 🗵	•						<u>l</u> F	FR 1	4 2014
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	k							_	
										NMC	CD	ARTES!
Describe Cau	ise of Probl	em and Reme	dial Action	n Taken.*								
The collapse	of a gun ba	rrel tank caus	ed 800 bbl	s of produced wa	ter and 1	00 bbls of oi	l to leak onto the	eround. A	Vacuum	truck nicke	ed un al	l free-
standing fluid	ds.			o o promoto ma		00 0010 01 01	to real office are a	6round. r	r vaoaqii	i ii don pione	a up ur	
Describe Are	a Affected	and Cleanup A	Action Tak	en.*		<del></del>						
		-			•	0.1						
The area afte	cted was on ediation plan	the location a	and into th Mike Bra	e pasture down the	ie botton Via ema	n of the slope	North of the loca	ition. Ren d by James	nediation	was compl of the BI M	eted in a	accordance
12/17/2012.	outere pro-	ir approved by			7 7 14 51110			a of vario	o ramos c	ino Beni	via omici	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
I haraby carti	fy that the i	nformation (ri	ven above	is true and comp	lete to th	a best of my	knowledge and u	n dayatan d	that mura	want to NIM	OCD -	loc and
							id perform correc					
public health	or the envir	conment. The	açeeptano	e of a C-141 repo	ort by the	NMOCD m	arked as "Final Re	eport" doe	s not reli	eve the ope	rator of	liability
should their o	perations h	ave failed to a	dequately	investigate and r	emediate	contaminati	on that pose a three	eat to grou	ind water	, surface wa	iter, hur	nan health
federal, state,	or local lay	udition, NWC vs and/or regu	lations	tance of a C-141	report ac	es not retiev	e the operator of r	esponsibi	lity for co	ompliance v	vith any	other
							OIL CONS	SERVA	TION	DIVISIO	)N	
Signature:	/ //											
Digitature.						Annroyed by	District Superviso	or.				
Printed Name	: Christo	pher Jones)		· · · · · · · · · · · · · · · · · · ·		TPPTO VOLITY	Diamor Supervise	<del></del>	_			
Title: HES	Specialist					Approval Dat	e:	Ex	piration_l	Date:		
E-mail Addre	ss: Chris	topher_Jones(	@oxv.com		1	Conditions of	Approval				_	
	1					2011G10110110 UL	T.Pprovar.		Attached			
Date: A	12114	′.	Phone:	(575) 628-412	1	·						
Attach Addit	nonal Shee	ts II Necess	arv									

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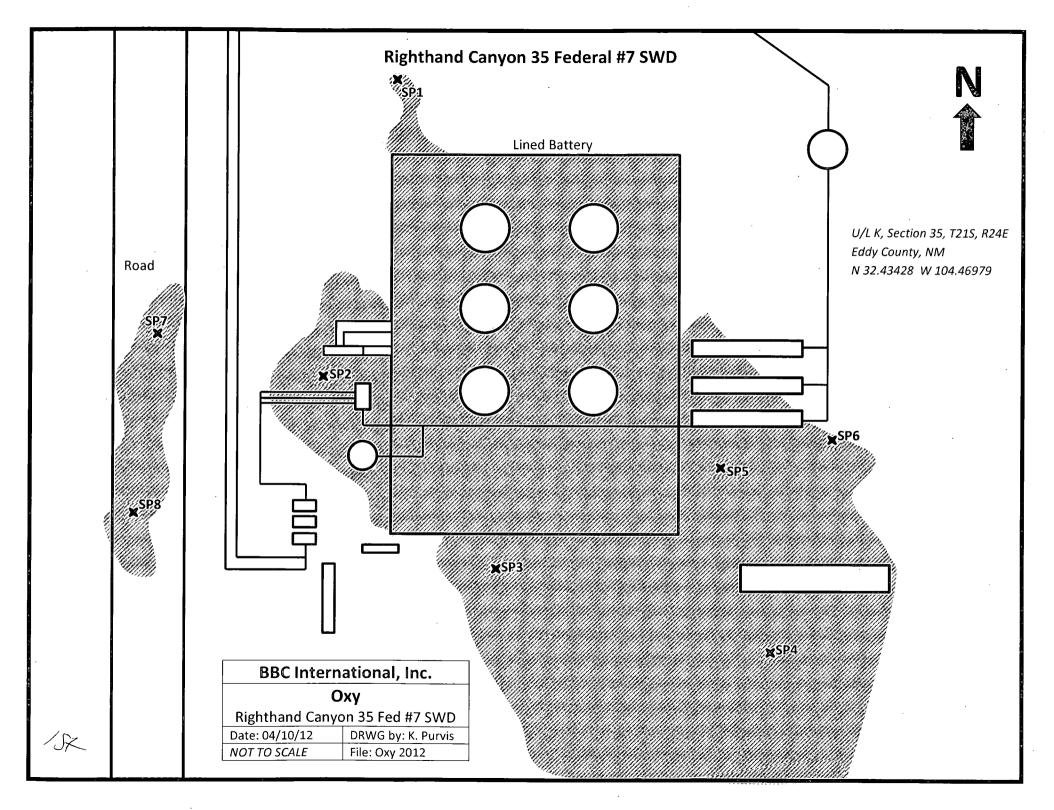
# State of New Mexico Energy Minerals and Natural Resources

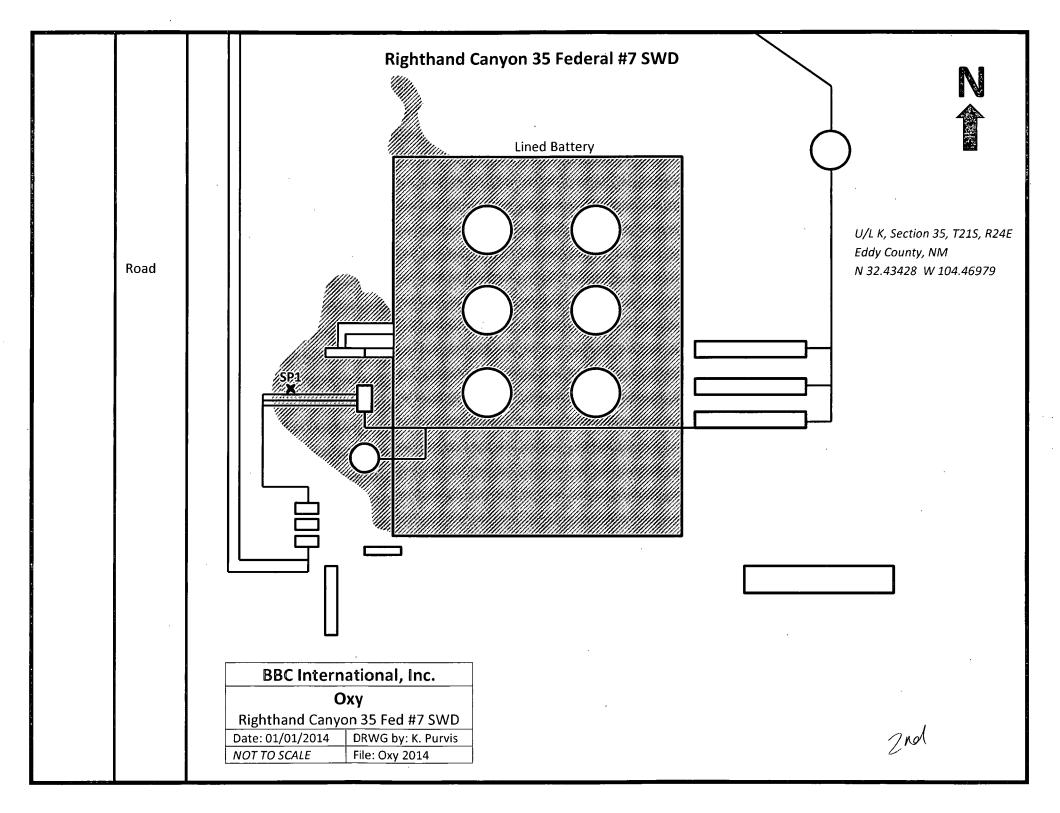
Form C-141 Revised October 10, 2003

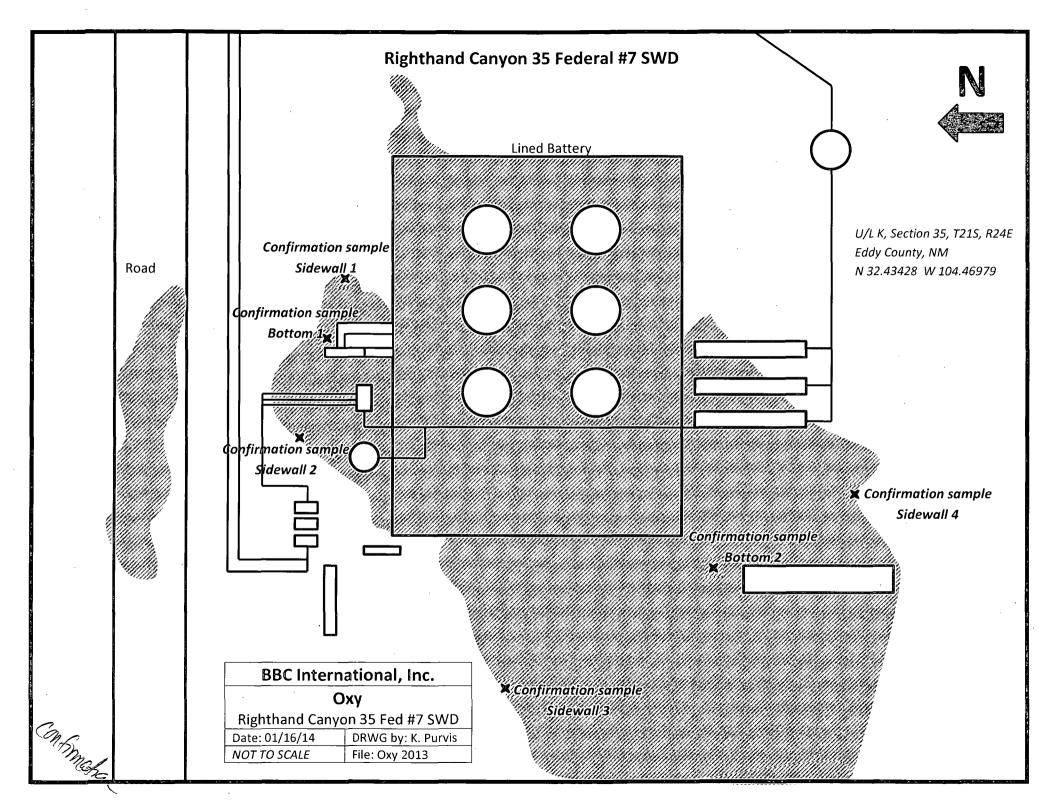
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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			Rel	ease Notific	catio	n and Co	rrective A	ction		_		<del></del>
						OPERA:	TOR		☐ Initia	al Report	$\boxtimes$	Final Report
Name of Co		Oxy Permia		1 > D (			Christopher Jone					
Address Facility Na		thand Canyo		ad, NM WD Battery		Telephone 1 Facility Typ		3-4121				
		unana Canyo	711 557 7 5	······································		Tacinty Typ	o Gathering					
Surface Ow	ner BLM	·	<u></u>	Mineral C	)wner				API No	0.30-015-34	529(n	nearest well)
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	Nortl	h/South Line	Feet from the	East/W	est Line	County		
K	35	218	24E		l		_			Eddy Cou	nty, NN	M
				Latitude		Longi	tude					
				NAT	URF	OF RELI	EASE	_				
Type of Rele	ase Produ	ced water		2 12 3		Volume of		bls	Volume F	Recovered	720 b	bls
Source of Re	lease Bac	l service card	on PLC c	aused power loss	to	Date and H 01/01/2014	lour of Occurrence	ce	Date and	Hour of Dis	covery	
Was Immedi	ate Notice (		Yes [	No 🗌 Not Re	equired	If YES, To Mike Brate	Whom? cher-NMOCD, Ja	mes Am	os-BLM			
By Whom?		Gilkey, BBC I	nternation	al		Date and H	lour 01/02/2014	4 @ 1:58	3 pm			
Was a Water	course Read	hed?	Yes 🛚	No		If YES, Vo	lume Impacting t	the Water	rcourse.			
	e card on the	e PLC caused	a power le	n Taken.* oss to the pumps o			oill 800 bbls of pr	oduced v	water onto	the ground.	720 b	bls of
Describe Are The affected of NMOCD	area is appr	oximately 60'	x 100' on	en.* location. Remeded by James Amo	liation os of th	was completed e BLM via em	l in accordance w ail on 12/17/2012	ith a rem	ediation p	lan approved	i by M	ike Bratcher
regulations al public health should their o	l operators or the envir	are required to connent. The ave failed to a	o report an acceptance	is true and comp.  Id/or file certain rue of a C-141 repoinvestigate and rutance of a C-141	elease i ort by th emedia	notifications ar ne NMOCD ma te contamination	nd perform correctarked as "Final Room that pose a three	etive action eport" do eat to gro	ons for rele ses not reli ound water	eases which eve the oper surface wa	may er ator of ter, hu	ndanger f liability man bealth
		1					OIL CONS					
Signature:		<u> </u>				Approved by	District Superviso	or:				
Printed Name	: Christo	pher Jones										
Title: HES	Specialist		····			Approval Date	e:	E	xpiration I	Date:		
E-mail Addre	ss: Chris	topher_Jones(				Conditions of	Approval:			Attached		
Date:	10-114	•	Phone:	(575) 628-412	1		•			1		









# **Groundwater Plot**

# Oxy Righthand Canyon 35-7 SWD Btry

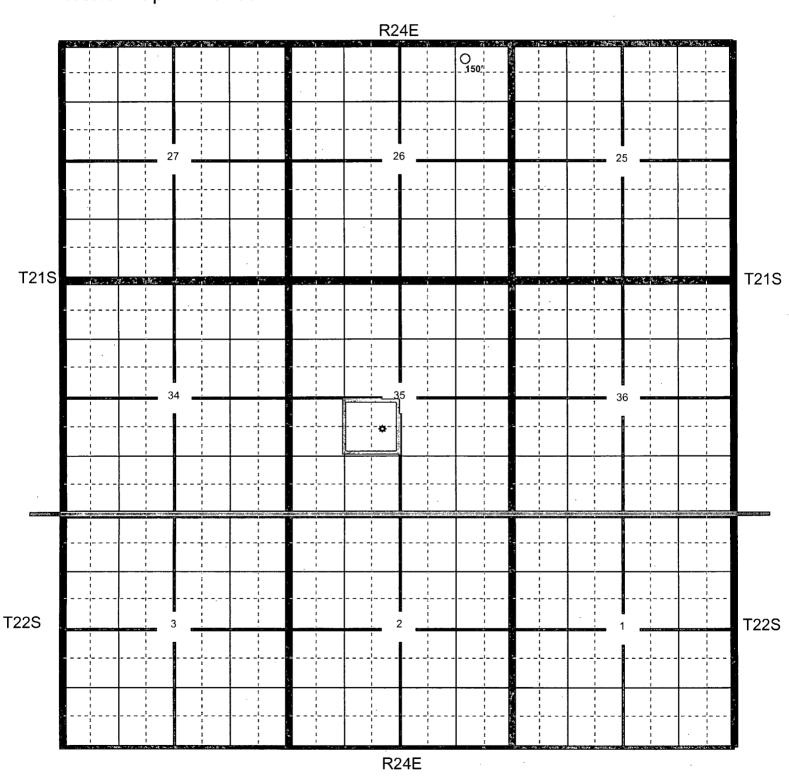
County Eddy Unit Letter

Section 35

Township 21S Range 24E

Trend Map

75'-80'



**△** Location •

o OCD

OUSGS

**OSEO** 

All Databases



# Section Quarters

# Oxy Righthand Canyon 35-7 SWD Btry

County Eddy *Unit Letter* K Section - 35

Township 21S Range 24E

Trend Map 75'-80'

1

2

NW/NW	ne/nw	NW/NE	NE/NE
None	; ; ;		
	t f f	i !	; ; ;
	1		
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Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
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NW/SW	NE/SW	NW/SE	NE/SE :
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Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
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Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

Location

o OCD

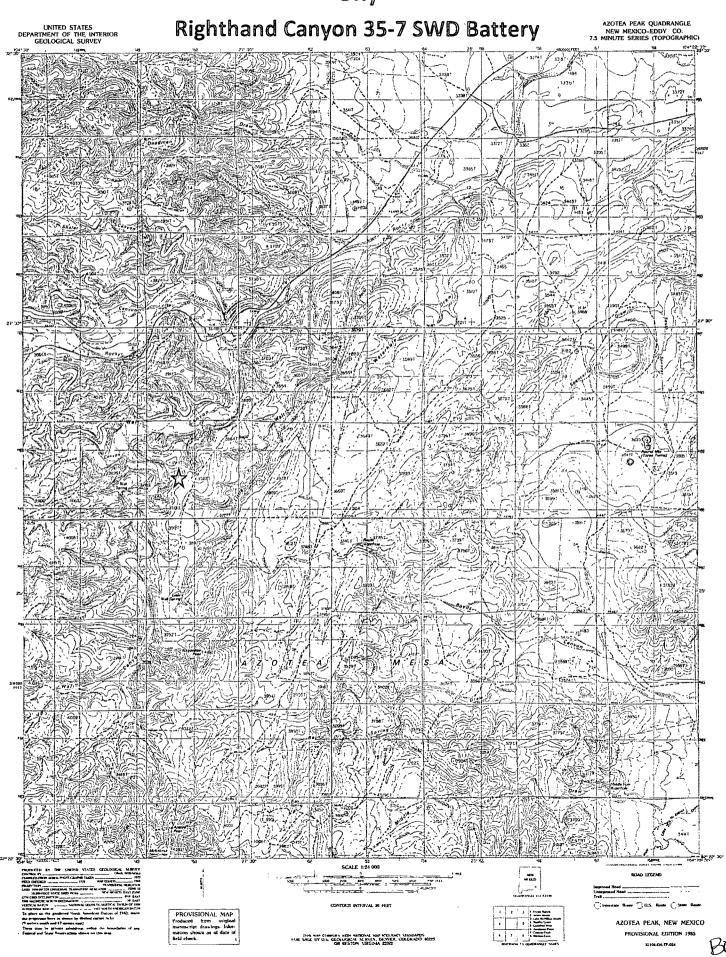
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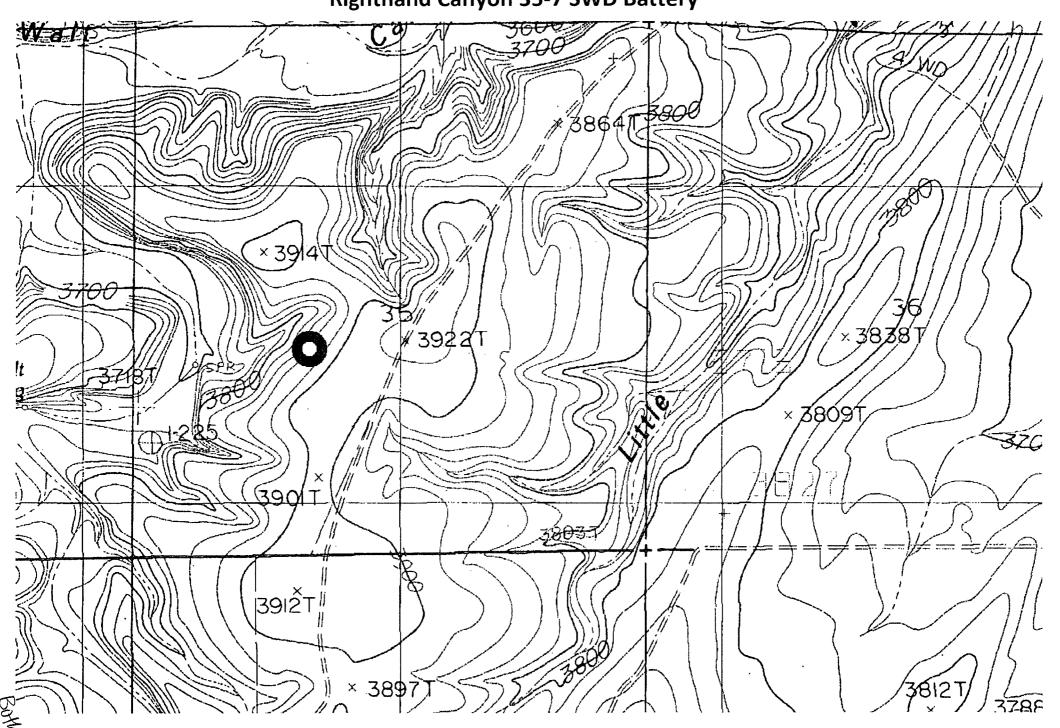
All Databases

Both

Oxy



Oxy
Righthand Canyon 35-7 SWD Battery



## Laboratory Analytical Results Summary Right Hand Canyon 35-7 SWD

		Sample	SP1 @ Surface	SP1 @ 1 ft	SP2 @ Surface	SP2 @ 1 ft	SP3 @ Surface	SP3 @ 1 ft	SP4 @ Surface	SP4 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.056
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		256	<16.0	576	80.0	<16.0	32.0	96.0	48.0
GRO	TPH 8015M		<10.0	<10.0	<50.0	<10.0	<50.0	<10.0	<10.0	<10
DRO	TPH 8015M		556	748	8110	218	8390	863	2360	1690

		Sample	SP5 @ Surface	SP5 @ 1 ft	SP6 @	SP6 @ 1 ft	SP7 @ Surface	SP7 @ 1 ft	SP8 @ Surface	SP8 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	0.167	<0.150
Chloride	SM4500CI-B		560.0	80.0	400	144	<16.0	<16.0	192	32.0
GRO	TPH 8015M		<10.0	<10.0	60.9	14.1	<10.0	<10.0	61.0	11.3
DRO	TPH 8015M		2390	1770	20300	3310	209	<10.0	40600	522



#### Laboratory Analytical Results Summary Righthand Canyon 35-7 SWD Battery

		Sample	SP1 @ SURFACE	SP1 @ 6"	SP1 @ 1'
Analyte	Method	Date	1/3/14	1/3/14	1/3/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		880	80	48
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		244	29.5	24.7



## Laboratory Analytical Results Summary Righthand Canyon 35-7

C		Sample	SIDEWALL	SIDEWALL		SIDEWALL
Confirmation			1	. 2	3	4
Analyte	Method	Date	1/10/14	1/10/14	1/10/14	1/10/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		240	224	<16.0	240
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		903	1240	16.7	525

		Sample	воттом 1	воттом 2
Analyte	Method	Date	1/10/14	1/10/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		224	144
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		836	280

( MATI MORTON



April 12, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIGHT HAND CANYON 35-7 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 10:05.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

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:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 1 @ SURFACE (H200800-01)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP				,	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	556	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chloroactane	108 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	127 9	57.6-15	8			•			

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\*=Accredited Analyte

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BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

(505) 397-0397 Fax To:

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

Sampling Type:

Soil

Project Name:

04/12/2012

Sampling Condition:

Cool & Intact

**RIGHT HAND CANYON 35-7 SWD** NONE GIVEN

Sample Received By:

Project Number: Project Location:

CARLSBAD, NEW MEXICO

Jodi Henson

### Sample ID: SP 1 @ 1 FT (H200800-02)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	110	% 64.4-13	4					•	
Chloride, SM4500CI-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	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	748	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	110 5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	139 5	% 57.6-15	8						

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Celey & Keene



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE-GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 2 @ SURFACE (H200800-03)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	•
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND ·	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	8110	50.0	04/12/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	123 5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	325	% 57.6-15	8						

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Celeg & Keine



BBC International, Inc.

Cliff Brunson

P.O. Box 805

Hobbs NM, 88241

Fax To:

(505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

DTEV 9031B

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

 ${\bf Sampling\ Condition:}$ 

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 2 @ 1 FT (H200800-04)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	218	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	114 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	147 9	% 57.6-15	8						

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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

Sampling Type:

Soil

04/12/2012

Cool & Intact

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 3 @ SURFACE (H200800-05)

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	04/11/2012	ND	1.98	99.2 .	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	100 %	% 64.4-13	4						
Chloride, SM4500CI-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	04/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	-50.0	04/12/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	8390	50.0	04/12/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	130 %	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	329 %	6 57.6-15	8						

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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 3 @ 1 FT (H200800-06)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 64.4-13	. 4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	863	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	120	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	132 5	% 57.6-15	8						

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Celeg & Keine



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name: .

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 4 @ SURFACE (H200800-07)

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	04/11/2012	· ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	101 :	% 64.4-13	4						,
Chloride, SM4500CI-B	mg/	/kg ·	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	2360	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	118	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	129	% 57.6-15	8						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

TOJECT LOCATION. CARLSDAD, NEW MEXIC

Sample ID: SP 4 @ 1 FT (H200800-08)

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	04/11/2012	· ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	•
Ethylbenzene*	0.056	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	122 5	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/11/2012	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	ŔPD	Qualifier
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	1690	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	116	% 55.5-15	4			·			
Surrogate: 1-Chlorooctadecane	126	% 57.6-15	8						

Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene



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

Fax To:

(505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 5 @ SURFACE (H200800-09)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND .	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	2390	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	115	% 55.5-15	4						•••
Surrogate: 1-Chlorooctadecane	128	% 57.6-15	8						

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\*=Accredited Analyte

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Celeg & Keine



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 5 @ 1 FT (H200800-10)

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	. 04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	1770	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	120 9	% 55.5-15	4						
Surrogate: I-Chlorooctadecane	126	% 57.6-15	8						

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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 6 @ SURFACE (H200800-11)

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	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	107 9	64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	60.9	50.0	04/12/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	20300		04/12/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	130 9	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	331 9	6 57.6-15	8						

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Celeg & Keene



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 6 @ 1 FT (H200800-12)

BTEX 8021B	mig,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	106	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/11/2012	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	14.1	10.0	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	3310	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	118	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	119	% 57.6-15	8						

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BBC International, Inc.

Cliff Brunson

P.O. Box 805

Hobbs NM, 88241

Fax To:

(505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 7 @ SURFACE (H200800-13)

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	04/12/2012	, ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 64.4-13	4						
Chloride, SM4500CI-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	04/11/2012	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	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	209	10.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	106 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	133 9	% 57.6-15	8						

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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 7 @ 1 FT (H200800-14)

BTEX 8021B	mg/	kg	Analyze	d By: AP	BS.				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND .	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	103 %	64.4-13	ı						
Chloride, SM4500CI-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	04/11/2012	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	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	<10.0	10.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	115 %	6 55.5-154	1						
Surrogate: 1-Chlorooctadecane	143 %	6 57.6-158	}						

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Celey & Keene



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

(505) 397-0397 Fax To:

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

Sampling Type:

Soil

Project Name:

04/12/2012

Sampling Condition:

Cool & Intact

NONE GIVEN

Project Number:

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

**RIGHT HAND CANYON 35-7 SWD** 

#### Sample ID: SP 8 @ SURFACE (H200800-15)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	0.167	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	61.0	50.0	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	40600	50.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	102 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	613 9	% 57.6-15	8						

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Celey D. Keine



BBC International, Inc.

Cliff Brunson

· P.O. Box 805

Hobbs NM, 88241

Fax To:

(505) 397-0397

Analyzed By: AD

Received:

RTEY ONDIR

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 8 @ 1 FT (H200800-16)

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	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	. % Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2012	ND	400	100	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	11.3	10.0	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	<b>522</b> 10.0		04/12/2012	NĎ	234	117	200	15.1	
Surrogate: 1-Chlorooctane	103 %	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	128 9	6 57.6-15	8						

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\*=Accredited Analyte

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Celeg & Keene



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature,
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

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Celeg & Keene

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

Company Name: BBC International, Inc.

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Project Manage	roject Manager: Cliff Brunson								P.O. #:					1	:	1				- 1			-					1	١
Address: P.O.	. Box 805							Company:						1									ı						١
city: Hobbs	State: NM	Zip	: 8	824	1			Attn:						1															
Phone #: 575-	397-6388 Fax#: 575	-39	7-0:	397				Address:																					I
Project #:	Project Owner	r: (	$\bigcirc_{2}$	( W				City:																				I	
Project Name:	oject Name: Righthand Canyon 35- 78WD							Sta	te:		Z	Zip:																	1
Project Location								Pho	one #	t:																			
Sampler Name: Jorday Wood Fra .							_	Fax	(#:						2.2.1														I
FOR LAB USE ONLY		Τ.			MA	TRIX	(		PRES	SER\	4	SAMPLI	NG	1	5								-					ļ	I
Lab I.D. H2 <i>0</i> 03ID	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASIEWAIER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER .		DATE	TIME	10	TPHEC	27.75	ورلير							ļ					
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PLEASE NOTE: Lippiley at	nd Damages. Cardinars liability and client's exclusive remeay for a	ny clay	m ausi	no whe!!	er paser	d in co	otract o	X 196	Shail De	- Amite	ed to	the amount par	Z.O I	1.7			۲		<u></u>			<u></u>			<u> </u>			 <u> </u>	J
analyses. Alf claims includi-	inalyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in wi- revice. In no event shall Cardinal be liable for incluental or consequental damages, including without limitation, business Interru								ved by C	ardina	at with	hin 30 days afte	r completion of t	he applica	ble														
attitiates or successors erisi	ng out of or related to the performance of services hereunder by C	ardinal	recar	dless of	whether	such (	daim is	base	d upon a	any of																			
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Relinquished By								Samuel Comments						FN	141	<i>C</i> .	4	11											ı

BILL TO

出26

Sample Condition
Cool Intact
Yes Yes
No No

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

# 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.								BI	LL TO	<u> </u>					<u>ANAI</u>	LYSIS	RE	QUE	ST			
Project Manager:	Cliff Brunson		P.C	). #:																		
Address: P.O. B	ox 805				****		Co	mpany:											, !			İ
city: Hobbs	State: NM	Zip	): {	8824	41	ummed Milyld Squamers	Att	n:													į	
Phone #: 575-39	7-6388 Fax#: 575-	39	7-0	397			Ad	dress:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												ļ
Project #:	Project Owner						Cit	у:							1				i			ŀ
Project Name: R	ct Name: Right hand Catiyon 35-7 SwD								Zip:			1.7.	l						į į			
Project Location:	Carlobad WAY						Ph	one #:			]	17	İ	ļ	1							ļ
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† Cardinal cannot accept verbal changes. Please fax written changes								-393-2476 4-27 1														
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January 13, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

**RE: RIGHT HAND CANYON 35** 

Enclosed are the results of analyses for samples received by the laboratory on 01/07/14 8:15.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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 & 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

and



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

Fax To:

(575) 397-0397

Received:

01/07/2014

Sampling Date:

01/03/2014

Reported:

01/13/2014

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

INDIAN BASIN

Sample ID: SP 1 @ SURFACE (H400039-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	< 0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	< 0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	< 0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	<0.300	0.300	01/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	01/09/2014	ND	416	104	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	01/08/2014	ND	175	87.7	200	2.38	
DRO >C10-C28	244	10.0	01/08/2014	ND	180	90.1	200	1.19	
Surrogate: 1-Chlorooctane	83.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.3	% 63.6-15	4						

#### 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:

01/07/2014

Sampling Date:

01/03/2014

Reported:

01/13/2014

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

INDIAN BASIN

Sample ID: SP 1 @ 6" (H400039-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2014	ND	1.92	96.1	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2014	ND	1.89	94.6	2.00	2.20	
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.93	96.4	2.00	2.32	
Total Xylenes*	< 0.150	0.150	01/09/2014	ND	5.63	93.8	6.00	2.42	
Total BTEX	<0.300	0.300	01/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103 9	% 89.4-12	6 .			, , , , , , , , , , , , , , , , , , , ,			
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2014	ND	416	104	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	01/08/2014	ND	175	87.7	200	2.38	
DRO >C10-C28	29.5	10.0	01/08/2014	ND	180	90.1	200	1.19	-
Surrogate: 1-Chlorooctane	90.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.0 9	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane 92.0 % 63.6-15

Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene



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

Fax To:

(575) 397-0397

Received:

01/07/2014

Sampling Date:

01/03/2014

Reported:

01/13/2014

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

INDIAN BASIN

Sample ID: SP 1 @ 1' (H400039-03)

BTEX 8021B	mg/	kg	Anaiyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2014	ND	1.92	96.1	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2014	ND	1.89	94.6	2.00	2,20	
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.93	96.4	2.00	2.32	
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.63	93.8	6.00	2.42	
Total BTEX	<0.300	0.300	01/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	
Chloride	48.0	16.0	01/09/2014	ND	416	104	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	01/08/2014	ND	175	87.7	200	2.38	
DRO >C10-C28	24.7	10.0	01/08/2014	ND	180	90.1	200	1.19	
Surrogate: 1-Chlorooctane	83.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.9	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Kune



#### **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 D. Kune

## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name: BBC International, Inc.  Project Manager: Cliff Brunson  Address: P.O. Box 805  Company: City: Hobbs  State: NM zip: 88241  Attn: SAME  ANALYSIS REQUEST  ANALYSIS REQUEST  ANALYSIS REQUEST  ANALYSIS REQUEST	
Address: P.O. Box 805  City: Hobbs  State: NM zip: 88241  Attn:	
City: Hobbs State: NM zip: 88241 Attn: Attn:	
City: Hobbs State: NM zip: 88241 Attn: SAME	
Phone #: 575-397-6388 Fax #: 575-397-0397 Address:	1
Project #: Project Owner: QYU City:	
Project Name: Right Hand Canyon 35 State: Zip:	
Project Location: Trobian Basin Phone #:	
Sampler Name: Page Utaning 62 Fax #:	
FOR LAB USE ONLY MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D. 방향병하는 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계	
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3 @ 1'	
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PLEASE NOTE: Liability and Darnages. Cardinal's liability and clent'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	

Relinquished By:

| Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Phone #: | Ph

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

Sampler - UPS - Bus - Other:

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 substituties.

#54



January 14, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIGHT HAND CANYON 35

Enclosed are the results of analyses for samples received by the laboratory on 01/13/14 16:15.

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 <a href="https://www.tceq.texas.qov/field/qa/lab\_accred\_certif.html">www.tceq.texas.qov/field/qa/lab\_accred\_certif.html</a>.

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 & 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

Confination



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

Fax To:

(575) 397-0397

Received:

01/13/2014

Sampling Date:

01/10/2014

Reported:

01/14/2014

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

INDIAN BASIN

Sample ID: SIDEWALL 1 (H400109-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	< 0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	
Chloride	240	16.0	01/14/2014	ND	432	108	400	7.14	
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	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	903	10.0	01/14/2014	ND	233	116	200	1.72	
Surrogate: 1-Chlorooctane	75.1 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.2 9	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keine



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

(575) 397-0397 Fax To:

Received:

01/13/2014

Sampling Date:

01/10/2014

Reported:

01/14/2014

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

INDIAN BASIN

Jodi Henson

#### Sample ID: SIDEWALL 2 (H400109-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	
Chloride	224	16.0	01/14/2014	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	1240	10.0	01/14/2014	ND	233	116	200	1.72	
Surrogate: 1-Chlorooctane	101 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	158 9	63.6-15	4	•					

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



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

Fax To: (575) 397-0397

Received:

01/13/2014

Sampling Date:

01/10/2014

Reported:

01/14/2014

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

INDIAN BASIN

Sample Received By:

Jodi Henson

#### Sample ID: SIDEWALL 3 (H400109-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS				<del></del>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	< 0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	< 0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					Qualifier
Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	
Chloride	<16.0	16.0	01/14/2014	ND	432	108	400	7.14	
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	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	16.7	10.0	01/14/2014	ND	233	116	200	1.72	
Surrogate: 1-Chlorooctane	88.2	65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	63.6-15	4						

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Celey & Keene



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

Fax To:

(575) 397-0397

Received:

01/13/2014

Sampling Date:

01/10/2014

Reported:

Sampling Type:

Soil

01/14/2014

Sampling Condition:

Cool & Intact

Project Name: Project Number: **RIGHT HAND CANYON 35** NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

INDIAN BASIN

Sample ID: SIDEWALL 4 (H400109-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	< 0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0:300	01/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/14/2014	ND	432	108	400	7.14	
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	01/14/2014	ND	209	105	200	6.89	
			01/14/2014	ND	233	116	200	1.72	

Surrogate: 1-Chlorooctadecane

119%

63.6-154

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

Fax To:

(575) 397-0397

Received:

01/13/2014

Sampling Date:

01/10/2014

Reported:

01/14/2014

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

INDIAN BASIN

Jodi Henson

#### Sample ID: BOTTOM 1 (H400109-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	< 0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					.*
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	
Chloride	224	16.0	01/14/2014	ND	432	108	400	7.14	
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	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	836	10.0	01/14/2014	ND	233	116	200	1.72	
Surrogate: 1-Chlorooctane .	93.9 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	151 %	63.6-15	4						

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

Fax To: (575) 397-0397

Received:

01/13/2014

Sampling Date:

01/10/2014

Reported:

01/14/2014

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

INDIAN BASIN

Sample Received By:

Jodi Henson

#### Sample ID: BOTTOM 2 (H400109-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	ery True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 89.4-12	26						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	
Chloride	144	16.0	01/14/2014	ND	432	108	400	7.14	
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	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	280	10.0	01/14/2014	ND	233	116	200	1.72	
Surrogate: 1-Chlorooctane	97.4	% 65.2-14	10	•				•	
Surrogate: 1-Chlorooctadecane	121 9	% 63.6-15	4						

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#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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  $6^{\circ}\text{C}$ 

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

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Celey & Keene

	<u>-2326  FAX (505) 393-24</u>	76		180							1 0							
Company Name: BBC II	nternational, Inc.			##### B	ul fo	na interest	Saperia.				ANA	LYSIS	RE	QUE	ST			V
Project Manager: Cliff B	runson			P.O. #:							1.							
Address: P.O. Box 805		y	Principal Control	Company:				Į .										
city: Hobbs	State: NM	Zip:	88241	Attn:								٠.						·
Phone #: 575-397-6388	Fax #: 57	5-397-0	0397	Address: <	ZAN	IE.		ľ		. ~								
Project #:	Project Own	er: 6	TXY	City:					1									
Project Name: Righ	t Hand Ca	nu	9M	State:	Zip:			] .					(3)				1. 14	
Project Location:		· •	<u>-</u>	Phone #:													·	
Sampler Name:				Fax #:	1		-									-	,	. :
FOR LAB USE ONLY	•	1.1	MATRIX	PRESERV	SAMPL	ING					1.	1	٠.			<u>'</u>		
		OMP(S	2 H				12	1	١,									
	ample I.D.	RAB OR (C	GROUNDWATER WASTEWATER SOIL	OTHER: ACID/BASE: ICE / COOL			J.J.	BIR	-70					ļ.   		. ,		
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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 subsidiarles,

Relinquished By:  Date: Received By:  REMARKS:		Add'l Phone #: Add'l Fax #:	□ No	☐ Yes	Phone Result: Fax Result:		d By:	Z.ILI Receive	Date:	N A	Relinquished B
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Time:	•	6-1111					d By:	Receive	Date:	<i>(</i> :	Relinquished B
		-JT //		1		· · · · · · · · · · · · · · · · · · ·			Time:		
Delivered By: (Circle One)  Sample Condition CHECHED BY:  Cool Mtact (nytrals)							Cool Antact /	u D			
Sampler - UPS - Bus - Other: 4.62 Pres Pres 390 - 10110	 		2110	ما - 0	391	LAT		4.60		- Bus - Other:	Sampler - UPS

<sup>†</sup> 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:

Tuesday, November 13, 2012 2:19 PM

To:

Cliff P. Brunson

Cc:

Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey

Subject:

RE: Oxy-Righthand Canyon 35 Federal #7 SWD

Reference: OXY USA \* Right Hand Canyon 35-7 \* 30-015-34529 \* K-35-21s-24e \* Eddy County, New Mexico OCD Tracking Number: 2RP-828 \* Date of release: 6/30/11

Cliff,

Your proposal for remediation of the above referenced release is approved with the following conditions/stipulations:

- Notify OCD 48 hours prior to commencement of remedial operations.
- Notify OCD 48 hours prior to obtaining samples where the analyses are to be submitted to OCD.
- Obtain representative confirmation samples of bottom and sidewalls of excavation.
- Obtain approval prior to backfilling excavations.
- Submit a closure report and Form C-141 marked Final Report upon satisfactory completion of project.
- Approval by BLM or any other regulatory authority as may be applicable.

As discussed, it is OCD's understanding that the areas identified as SP7 and SP8 are situated on the access road. OXY indicates that it is not practicable to excavate in these areas due to the steep grade of the road.

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, or local laws and/or regulations.

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

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

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

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

Sent: Sunday, September 23, 2012 5:21 PM

To: Bratcher, Mike, EMNRD

**Cc:** Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey **Subject:** Oxy-Righthand Canyon 35 Federal #7 SWD

#### Mike,

This e-mail is to confirm our discussion on September 5, 2012 concerning the remediation plan for the release that occurred at the Oxy Righthand Canyon 35 Federal #7 SWD. As agreed, Oxy will excavate 1 foot across the spill area except in the areas covered by SP4 - SP6 which will be excavated to a depth of 2 feet as depicted on the attached site diagram. In addition, the impacted soil inside the battery containment will be removed off the liner and replaced with clean material. The excavation will then be backfilled with clean soil. The depth to groundwater is this area is approximately 75 to 80 feet.

I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. 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: Amos, James <jamos@blm.gov>

Sent: Monday, December 17, 2012 11:13 AM

**To:** Cliff P. Brunson

Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: Re: Oxy Righthand Canyon 35 Federal #7 SWD - remediation plan

#### Everyone,

Looking at the numbers, it appears that the delineation reached failure. Excavation of the site will most likely achieve the same. I would like to excavate to failure, remove as must material as possible. Let the excavation air out for a little while prior to closure. With the low chloride level we may want to treat the remaining TPH with Micro Blaze or other products. Keep me in the loop as far as start date and when the excavation is completed.

Thanks,

J. Amos

On Sun, Dec 16, 2012 at 4:46 PM, Cliff P. Brunson < <u>cbrunson@bbcinternational.com</u>> wrote: Jim,

This message is to request the BLM's approval for Oxy's proposed remediation plan that is attached. I have included the NMOCD's approval and a site diagram that depicts the sample points, a lab data summary table, and the original lab data. Oxy proposed to excavated the impacted soil to depth of 1 foot in the areas that are represented by SP1, SP2, SP3, SP7, and SP8 (SP7 and SP8 are in the road downhill from the battery). In the area that is represented by SP4, SP5, and SP6, the soil will be excavated to a depth of 2 feet. In addition, the impacted gravel inside the lined battery will be removed and replaced. All excavated areas will be backfilled with clean appropriate material.

If you would please respond back via e-mail with your approval, it would be greatly appreciated. If you have any questions, please let us know.

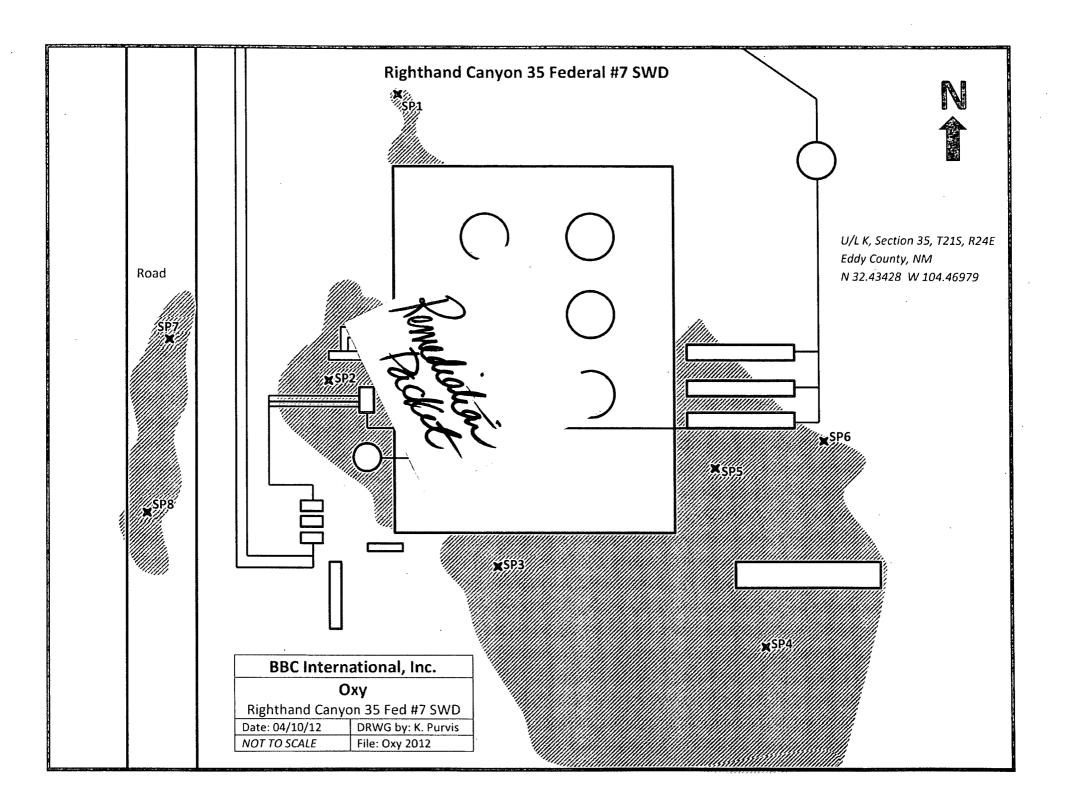
Thank you,

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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## Groundwater Plot

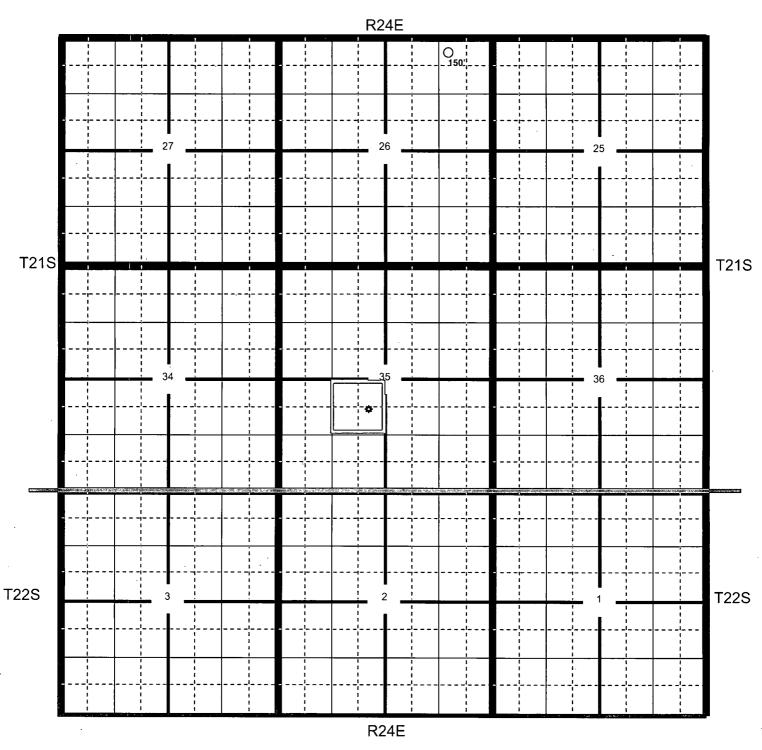
## Oxy Righthand Canyon 35 Fed #7

*County* Eddy Unit Letter

Section 35 Township 21S Range 24E

Trend Map

75'-80'





## Section Quarters

## Oxy Righthand Canyon 35 Fed #7

*County* Eddy *Unit Letter* K Section 35

*Township* 21S

Range 24E

Trend Map 7

75'-80'

1

2

NW/NW	NE/NW	NW/NE	NE/NE
None		# 1 *	
		1	
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
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NW/SW	NE/SW	NW/SE	NE/SE
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SW/SW	SE/SW	SW	SE/SE
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Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

**♣** Location

o OCD

OUSGS

o SEO

All Databases

#### Laboratory Analytical Results Summary Right Hand Canyon 35-7 SWD

		Sample	SP1 @ Surface	SP1 @ 1 ft	SP2 @ Surface	SP2 @ 1 ft	SP3 @ Surface	SP3 @ 1 ft	SP4 @ Surface	SP4 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.056
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		256	<16.0	576	80.0	<16.0	32.0	96.0	48.0
GRO	TPH 8015M		<10.0	<10.0	<50.0	<10.0	<50.0	<10.0	<10.0	<10
DRO	TPH 8015M		556	748	8110	218	8390	863	2360	1690

		Sample	SP5 @ Surface	SP5 @ 1 ft	SP6 @ Surface	SP6 @ 1 ft	SP7 @ Surface	SP7 @ 1 ft	SP8 @ Surface	SP8 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	0.167	<0.150
Chloride	SM4500CI-B		560.0	80.0	400	144	<16.0	<16.0	192	32.0
GRO	TPH 8015M		<10.0	<10.0	60.9	14.1	<10.0	<10.0	61.0	11.3
DRO	TPH 8015M		2390	1770	20300	3310	209	<10.0	40600	522



April 12, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIGHT HAND CANYON 35-7 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 10:05.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

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:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 1 @ SURFACE (H200800-01)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 64.4-13	4			•			
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP			·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	556	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	108 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	127	% 57.6-15	8						

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\*=Accredited Analyte

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Celeg & Keine



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

Fax To:

(505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 1 @ 1 FT (H200800-02)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2,10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	110	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AP			•		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	748	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	110	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	139	% 57.6-15	8						

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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:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 2 @ SURFACE (H200800-03)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	102 9	64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	8110	50.0	04/12/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	123 9	6 55.5-15	4						-
Surrogate: 1-Chlorooctadecane	325 %	6 57.6-15	8						

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Celey & Keene



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 2 @ 1 FT (H200800-04)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	218	10.0	04/11/2012	ND	-221	110	200	12.5	
Surrogate: 1-Chlorooctane	1145	% 55.5-15	4		•				
Surrogate: 1-Chlorooctadecane	147 9	% 57.6-15	8						

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Celeg D. Keine



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

Fax To:

(505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 3 @ SURFACE (H200800-05)

BTEX 8021B	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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	100 9	64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	8390	50.0	04/12/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	130 9	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	329 9	6 57.6-15	8				•		

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Celeg & Keine



BBC International, Inc.

Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

CARLSBAD, NEW MEXICO

Jodi Henson

#### Sample ID: SP 3 @ 1 FT (H200800-06)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 64.4-13	'4			-			
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	863	10.0	04/11/2012	. ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	120 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	132 5	% 57.6-15	8						

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Celeg & Keine



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

(505) 397-0397 Fax To:

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

Sampling Type:

04/12/2012

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 4 @ SURFACE (H200800-07)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 64.4-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	2360	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	118	% 55.5-15	:4						
Surrogate: 1-Chlorooctadecane	129	% 57.6-15	8						

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\*=Accredited Analyte

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Celeg & Keene



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 4 @ 1 FT (H200800-08)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	0.056	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	122	% 64.4-13	4					· -	
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	1690	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	116	116% 55.5-154							
Surrogate: 1-Chlorooctadecane	126	% 57.6-15	8						

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\*=Accredited Analyte

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Celeg & Keena



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 5 @ SURFACE (H200800-09)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	2390	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	115	% 55.5-15	4	·					
Surrogate: 1-Chlorooctadecane	128 5	57.6-15	8						

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\*=Accredited Analyte

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Celey & Keene



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

Fax To:

(505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 5 @ 1 FT (H200800-10)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050 0.050		04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	· ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP	. <u> </u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	1770	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	120 % 55.5-154		4						
Surrogate: 1-Chlorooctadecane	126 9	% 57.6-15	8						

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(505) 397-0397 Fax To:

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

RIGHT HAND CANYON 35-7 SWD NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 6 @ SURFACE (H200800-11)

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	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	< 0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	60.9	50.0	04/12/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	20300	50.0	04/12/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	130 % 55.5-154		4						. ,
Surrogate: 1-Chlorooctadecane	331	% 57.6-15	8			,			

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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 6 @ 1 FT (H200800-12)

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	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050 0.050		04/12/2012 ND		2.27	114	114 2.00		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	106	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/11/2012	ND	400	100	400	3.92	•
TPH 8015M	mg/	/kg	Analyze	d By: MS			<del></del>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14.1	10.0	04/11/2012	ND	197	98.7	200	3.96 .	
DRO >C10-C28	3310	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	118 :	% 55.5-15	4				-	<u> </u>	
Surrogate: 1-Chlorooctadecane	119	% 57.6-15	8						

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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

Sample ID: SP 7 @ SURFACE (H200800-13)

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	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	nes* <0.150		04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 64.4-13	4						
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	04/11/2012	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	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	209	10.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	106 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	133	% 57.6-15	8						

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(505) 397-0397 Fax To:

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

Sampling Type:

Soil

Project Name:

04/12/2012

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

CARLSBAD, NEW MEXICO

**RIGHT HAND CANYON 35-7 SWD** 

Sample Received By:

Jodi Henson

Sample ID: SP 7 @ 1 FT (H200800-14)

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		04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 64.4-13	4						
Chloride, SM4500CI-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	04/11/2012	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	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	<10.0	10.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	115	% 55.5-15	4			,			
Surrogate: 1-Chlorooctadecane	143	% 57.6-15	8						

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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

Sampling Type:

04/12/2012

Soil

Project Name:

RIGHT HAND CANYON 35-7 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 8 @ SURFACE (H200800-15)

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	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND 2.2		114	2.00	5.63	
Total Xylenes*	0.167	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	61.0	50.0	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	40600	50.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	102 % 55.5-154		4		-				-
Surrogate: 1-Chlorooctadecane	613 9	% 57.6-15	8						

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

(505) 397-0397 Fax To:

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

**RIGHT HAND CANYON 35-7 SWD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

CARLSBAD, NEW MEXICO

#### Sample ID: SP 8 @ 1 FT (H200800-16)

BTEX 8021B	mg/	kg	Analyze	d By: AP			<del>_</del>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	04/11/2012	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	11.3	10.0	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	522	10.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	103 % 55.5-154		4						
Surrogate: 1-Chlorooctadecane	128 9	6 57.6-15	8						

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\*=Accredited Analyte

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Celeg & Keine



#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

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

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	Company Name: BBC International, Inc.						ANA	LYSIS R	EQUEST		
Project Manage	r: Cliff Brunson		P.O. #:								
Address: P.O.	. Box 805		Compańy:		1		[ [				
city: Hobbs	State: NM	zip: 88241	Attn:			İ					
	#: 575-397-6388 Fax #: 575-397-0397 Address:										
Project #:	Project Owner	: Oxu	City:		]	j					
Project Name:	Righthand Canyon			1		\ \					
Project Location			Phone #:			_					
Sampler Name:	Jardan Wood Fre	1 .	Fax #:		ł	1.2.1					
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLII	NG		2					
Lab I.D. H2 <i>0</i> 03ID	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME	710	PHEC BTEX					
1 1	SP 1 Surface	9	4-5-12	10 51	X	XX					
2	501016+	9 1 1	X "	1100	X	X X					
3	SP2 Surface	91 4		1123	X	$X \mid Y$					
4	583@18t	91   X		1133	<u> </u>	XX					
<u> </u>	573 Surface	5 1 1	X //	1236	<u> </u>	XX					
J- 4	523 @ 18+	9 1 1 2		1750	X	$X \mid X$					
	SP4 Surface	$\frac{1}{9}$	X /	115		<del>*   X</del>					
	5P 4 @ 1 FF	2 1 X		129	7:	<del>*</del>   <del>*</del>   <del>*</del>   *   *   *   *   *   *   *   *   *		<del>  </del> -			
9	58 5 Surface 58 5 @ 184			701	\ <del>\</del>	令十爻					
analyses. All claims includio service. In no event shall C athliates or successors arisi	nd Damages. Caroinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be radinal be hable for incidental or consequental damages, including ing out of or related to the performance of services heterander by C	deemed waived unless made in writing a without limitation, business interruptions ardinal regardless of whether such claim	nd received by Cardinal within 30 days after ; loss of use, or loss of profits incurred by d o is based upon any of the above stated rea	o by the chent for t r completion of the lient, its subsidiari isons or otherwise	applicables,			I I		<u> </u>	
Retinquished By	1 1 19-9-12	Received By:		Phone Res	:			Phone #: Fax #:			
- 1 m \	Time:	1 01 11		REMARKS	:						1

# 26

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Project Manager: Cliff Brunson

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc.

Address: P.O.	s: P.O. Box 805					Company:													
city: Hobbs	State: NM	Zip:	8	8241	Attn:			1										ļ	
Phone #: 575-	397-6388 Fax #: 575	-397	<b>7-0</b> 3	397	Address:														
Project #:	Project Owner	r: (	0	Χι	City:							·			]		1 1		
Project Name:					State: Zip:				~										
1	roject Location: "Charles band DM.				Phone #:				7									}	
Sampler Name:					Fax #:			1	15										
FOR LAB USE ONLY				MATRIX	PRESERV	SAMPL	ING	1	O	7								1	
Lab I.D. 남200년)	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	       TIME	-10	TOTE	228									
13	3PK Surface	<u> </u>	į	<u> </u>	'Xı	4-5-12	215	×	K	X									
12	SP4 COUTH	E,	Ĺ		İΧ	1:	237	Х	X	X									
13	5P7 Safara 5P3@1P4	9	1	ا ایا ا	lxi	Ü	Zuci	X	X	X									
14	50 5 @ 1 Pt	<i>‡</i> )	_	ا إيرا إ	以	11	300	χ	X	X									
15	SPE Sulfane	9	1	<u>                                    </u>	IX.	ł;	305	X	X	<u>\</u>									
	32 8 Q 19t	é		1/2/1/1		1/	1318	×	<u>×</u>	_/_									
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analyses All claims include service. In no event shall C	nd Damagus. Cardinals liability and cliant's exclusive remedy for ing inose for negligence and any other cause whist-oever shall ne Sadinal be liable for incidental or consequental damages, includin ing out of or related to the performance of services herepublic by (	peemen g withou Caromal.	waiw Umita	ed unless made in writing and tition, business interruptions, li	received by Cardinal oss of use, or loss of c	within 30 days aft rolls incurred by	er completion of the client lits subsidia	ne applica aries.	ble	•									
Relinguished B	y:   Date: 9-17	Re	ceiv	red By:			Phone Re Fax Resul		☐ Ye			Add'l F		#:					
Im foreda	y: Date: 9-12 Time:	-` 	13	to Lecone	« 		REMARKS	S:											
Relinquished By:  Date: Received By:  Time:  Delivered By: (Circle One)  Sampler - UPS - Bus - Other:  Date: Received By:  Sample Condition  Cool Intact  DATE: Pres Pres					(lpi	KED BY:		EN	1 A !	( ),	9 <i>CC</i>								
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24																			
					出生	)													

BILL TO

P.O. #:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1660 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Sante Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised 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

nMLB1/223380/9		OPERA	TOR	<b>⊠</b> Init	ial Report	□F	inal Repor						
Name of Company OXY USA 192463		Contact Kelton Beaird											
Address 1502 W. Commerce Carlsbad, NM 88220		Telephone No. (O) 575-628-4100											
Facility Name Righthand Canyon 35-7		Facility Typ	e SWD		····								
Surface Owner Minera	d Owner				Lease ]	No. APL: 30	0153452	29					
LOC	CATIO!	N OF REI	LEASE										
Unit Letter Section Township Range Feet from the		South Line	Feet from the	East/W	est Line   County								
25 236 247	1					E44.							
35 218 24E				<u> </u>	y	Eddy		•					
Latitude Longitude NATURE OF RELEASE													
	Dagamand 1	140											
Type of Release Produced Water & Oil		oil oil	Release 800 wate	2011/00	vo <del>nne</del> :	Recovered	140						
Source of Release Gun Barrel Tank		Date and H	our of Occurrence			Hour of Dis @ 4:00pm	covery						
Was Immediate Notice Given?		If YES, To	Whom?		J-30-11 (	ug 4.00pm							
☑ Yes ☐ No ☐ Not	Required.	Mike Brate	her: NMOCD; Jir	n Amos-I	3LM								
By Whom? Kelton Besird (Oxy)			our See above		11/11	7815A							
Was a Watercourse Reached?  ☐ Yes ☑ No		If YES, Vo	iume Impacting ti	he Weter	iourse.								
If a Watercourse was Impacted, Describe Fully.		1											
							TIE	$\Box$					
					TA	ECE	<b>ハド</b>	<b>'</b> \					
					1	JUL 11	2011						
Describe Cause of Problem and Remedial Action Taken.*	44					JUL * *							
Tank Collapsed causing fluid to be released. Vacuum Truck w	ras called to	bick up tem	nining fluid.		1	MOCD A	RTES	IA					
					ואו	VIOU							
Describe Area Affected and Cleanup Action Taken.*  Area affected was on and off of location into the pasture down	Cha hattam	at the slave -	andh af the landi			the DIM on	d til						
Area affected was on and out of location on the pastage down approval by the state, the area off location on top just before the													
gather all free liquid. The affected area on the road and on local													
								i					
I hereby certify that the information given above is true and con regulations all operators are required to report and/or file certain													
public health or the environment. The acceptance of a C-141 re	port by the	NMOCD ma	rked as "Final Re	port" doe	s not reli	eve the opera	ator of lial	bility [					
should their operations have failed to adequately investigate and or the environment. In addition, NMOCD acceptance of a C-14													
federal, state, or local laws and/or regulations.	/ reborron	es not terrese	the operator of te	Shotzini	ну ког сс	with that is a wi	m any on	RG					
1/1/			OIL CONS	ERVA	TION	DIVISIO	N						
Signature:			Signed By	מאלת ה				ļ					
	DKM	week.	-										
Printed Name: Kelton Beaird			District Supervisor	<del></del>									
Title: HES Specialist	A	pproval Date	AUG 1 1 20	11 Ex	Expiration Date:								
E-mail Address: kelton beaird@oxy.com	1												
E-man Addiess: Achem Destropoxy.com		onditions of A		. ጼ		Attached		ł					
Date: 7-6-11	_ Re	mediation	per OCD Rules	ION		<u> </u>							
Attach Additional Sheets If Necessary	Guidel	ines. SUBN	NIT REMEDIAT			2RF	)_0-	10					
•		U7-1	00	10									