## **Closure Report**

# RECEIVED

By OCD; Dr. Oberding at 9:52 am, Mar 24, 2015

	Site Description							
Site Name:	Mescalero SWD							
Company:	Oxy Permian Ltd.							
Legal Description:	U/L K, Section 14, T10S, R32E							
County:	Lea County, NM							
GPS Coordinates:	N 33.44252° W 103.64709°							

## **Release Data**

Date of Release:	05/21/2012 and 05/23/2012
Type of Release:	Oil and produced water
Source of Release:	Tank overflow and plunging packing failure
Volume of Release:	2 bbls oil, 64 bbls produced water and 1 bbl oil, 109 bbls water
Volume Recovered:	35 bbls and 99 bbls

Remediation Specifications										
RemediationExcavate the entire leak to a depth of 5 feet. Excavate an additional 5 feet (10' total) in the area of SP2. Install a compacted clay liner in the entire leak area and backfill the site with clean soil.										
Remediation Activities:	01/20/2015 to 0	2/14/2015								
	•									
Plan Sent to OCD:	04/25/2014	Meeting: Cliff Brunson and Geoffrey Leking								
OCD Approval of Plan:	04/25/2014	Meeting: Cliff Brunson and Geoffrey Leking								
Plan Sent to BLM:	n/a	n/a								

n/a

	Supporting Documentation
Initial C-141	Signed 06/07/2012
Final C-141	Signed 02/27/2015
Site Diagram	May 2012
Groundwater Plot	50'
TOPO Maps	May 2012
Lab Summary	06/01/2012-06/05/2012 and 06/27/2012-06/28/2012
Lab Analysis	06/01/2012-06/05/2012 and 06/27/2012-06/28/2012
Correspondence	Request and approval of remediation plan via email

## **Request for Closure**

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

Cliff Brunson, President of BBC International Inc.

n/a

BLM Approval of Plan:

03/09/2015

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

> 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

1220 S. St. Fran	icis Dr., Sant	a Fe, $NW 8750$	5	Sa	anta F	Fe, NM 875	505					side of form
			Rel	ease Notifi	catio	n and Co	orrective A	ction	l			
						<b>OPERA</b>	TOR		🛛 Initi	al Report		Final Repor
Name of Co	ompany	Oxy Permia	n Ltd.			Contact (	Christopher Jone		50 - 10 10			
		Commerce D	r., Carlsb	ad, NM		Telephone 1			-			
Facility Nat	me Mes	calero SWD				Facility Typ	be Salt Water D	Isposal	Facility			
Surface Ow	mer			Mineral C	Owner				Lease 1	No.		
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	-	n/South Line	Feet from the	East/V	Vest Line	County		
	14	105	32E							Lea Count	N NM	
	14	105	32E							Lea Couli	y, 14141	
				Latitude 33.4	4252	Longi	itude <u>103.64709</u>	2				
				NAT	TURE	OF REL	and the second se	,				
Type of Rele	ase Oil a	nd Produced	Water			Volume of	Release 2 bbls oduced water	oil &	Volume I produced	Recovered	35 bb	ls of
Source of Re	lease Plu	gged screen o	n injection	n pump caused ov	reflow		Hour of Occurrence	e		Hour of Dis	covery	
	of	tank		- F F		5/21/12 @	10:00 am			a) 1:22 pm		
Was Immedi	ate Notice (		Ves	] No 🗌 Not R	equired	If YES, To Geoffrey I	Whom? Leking- OCD					
					equirea							
By Whom?	By Whom? Chris Jones Was a Watercourse Reached?						Hour 5/22/12 @ olume Impacting t					
was a water	course Read		Yes 🗵	No		11 1 1 5, *(	funde impacting t	ine wate	acourse.			
If a Waterco	irse was Im	pacted, Descr	ibe Fully.	*			-					
		F	,									
Describe Cau	ise of Proble	em and Reme	dial Actio	n Taken.*	nk to o	verflow 35 h	bls of produced w	ater we	e recovere	ed via vacuu	n truck	<i>,</i>
A screen on t Remediation	will be perf	formed accord	ling to a N	MOCD-approved	l remed	iation plan.	bis of produced w	ater wer	e recovere		II tituer	
Describe Are	a Affected a loced water l	and Cleanup A	Action Tal	cen.* Il affecting an area	a appro	ximately 20' x	20'. 35 bbls of p	oroduced	l water we	re recovered	and ac	lditional
remediation v	will be perfe	ormed in acco	rdance wi	th a NMOCD-app	proved 1	emediation pl	an.					
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to	the best of my	knowledge and u	nderstar	d that purs	suant to NM	OCD r	ules and
regulations a	l operators	are required t	o report an	nd/or file certain r	elease 1	notifications an	nd perform correc	tive acti	ons for rel	eases which	may er	ndanger
public health	or the envir	ronment. The	acceptance	the of a C-141 repo	ort by th remedia	te NMOCD m	arked as "Final Ro on that pose a thre	eport" de	oes not rel	ieve the oper	ator of ter, hu	f liability man health
or the enviror	ment. In a	ddition, NMC	CD accep	tance of a C-141	report of	does not reliev	e the operator of i	responsi	bility for c	ompliance wa	vith any	y other
federal, state,	or local lay	ws and/or regu	ilations.									
			//				OIL CONS	SERV	ATION	DIVISIC	IN	
Signature:		he	h									
Printed Name	r Christo	per Jones				Approved by	District Supervise	or:				
T Three Tallie	Christo											
Title: HES	Specialist					Approval Dat	e:	E	Expiration	Date:		
E-mail Addre	ss: Chris	toper_Jones@	oxy.com			Conditions of	Approval:			Attached		
Deter 1	-7-12	7	Dlam	(575) 600 410	1					Anacheu		
		ets If Necess	Phone:	(575) 628-412	1							

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

					THE REAL PROPERTY OF	C, INIVI 075							
•			Rele	ease Notifi	catio	n and Co	orrective A	ction					
						<b>OPERA</b>	ГOR		🛛 Initi	al Report		Final R	epor
Name of Co	ompany (	Oxy Permia	n Ltd.			the same second s	Christopher Jone						
	1502 W. Co		r., Carlsb	ad, NM		Telephone I							
Facility Nat	me Mesc	alero SWD				Facility Typ	e Salt Water D	Disposal F	Facility				
Surface Ow	mer			Mineral (	Owner				Lease N	Jo.			
				LOC	ΔΤΙΟ	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		n/South Line	Feet from the	East/We	est Line	County			
										I. C			
K	14	10S	32E							Lea Coun	ity, NN	1	
				Latitude 33.4	4252	Longi	tude <u>103.64709</u>	9					
				NAT	<b>FURE</b>	OF REL	EASE						
Type of Rele	ase Oil an	d Produced	Water			Volume of				Recovered	99 bl	ols of	
Course of D	lanza Da-1	ing on this -1	ov pump -	lunger failed			of produced wat		produced	water Hour of Dis	scover	v	
Source of Re	lease Pack	ing on tri-pi	ex pump p	nunger laned		5/23/12 @				1000000000000000000000000000000000000	scover	y	
Was Immedi	ate Notice G					If YES, To							
		$\boxtimes$	Yes 🗋	] No 🗌 Not R	equired	Geoffrey L	eking- OCD						
By Whom?	By Whom? Chris Jones						Date and Hour 5/24/12 @ 9:16 am						
Was a Watercourse Reached?						If YES, Vo	olume Impacting t	the Water	course.				
If a Watercou	irse was Imp	acted, Descr	ibe Fully.*	k									
Describe Cau	se of Proble	m and Reme	dial Action	n Taken.*									
The packing	on a tri-plex	pump plung	er failed ca	ausing 110 bbls o	of oil an	d produced wa	ter to leak onto th	ne ground.	99 bbls	of produced	d water	were	
recovered via	vacuum tru	ck. Remedia	tion will b	be performed acco	ording t	o a NMOCD-a	approved remedia	ition plan.					
Describe Are	a Affected a	nd Cleanup A	Action Tak	ten.*									
					ols of pr	oduced water	were recovered an	nd additio	nal remed	liation will	be per	formed in	
accordance w	onth a NMOC	D-approved	remediatio	on plan.									
I hereby certi	fy that the in	formation gi	ven above	is true and comp	olete to	the best of my	knowledge and u	inderstand	that purs	uant to NM	OCD	rules and	
regulations a	l operators a	re required t	o report an	d/or file certain i	release i	notifications ar	nd perform correct arked as "Final R	ctive action	ns for rele es not reli	eases which	may e	ndanger fliability	
should their o	perations ha	ve failed to a	dequately	investigate and 1	remedia	te contaminati	on that pose a thr	eat to grou	and water	, surface w	ater, hi	uman healt	h
or the environ	ment. In ad	dition, NMC	CD accep	tance of a C-141	report of	does not reliev	e the operator of	responsibi	lity for co	ompliance	with an	y other	
federal, state,	or local law	s and/or regu	ilations.				OIL CON	SERVA	TION	DIVISI	<u>N</u>		
	//						<u>OIL CON</u>	<u>SLIX V F</u>		DIVISIO			
Signature:	Ch	F											
Printed Name	e: Christop	er Jones				Approved by	District Supervise	or:					
Title: HES	Specialist					Approval Dat	e:	Ex	piration	Date:			
E-mail Addre	ss: Christ	oper_Jones@	oxy.com			Conditions of	Approval:						
									Attached				
Date: 6	-7-12	TON	Phone:	(575) 628-412	21								
' Attach Addi	ional Sheet	s II Necess	ary										

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

	H	·				e, NM 875						
			Rel	ease Notifi	catio	n and Co	orrective A	Action	l			
Atom CO		<u> </u>				<b>OPERA</b>	TOR		🔲 Init:	ial Report	$\boxtimes$	Final Report
Name of C Address		Oxy Permia		. 1. NTX #			Christopher Jon					
Facility Na		calero SWD		ad, NM		Telephone No.       (575) 628-4121         Facility Type       Salt Water Disposal Facility						
						Facility Typ	e Salt Water	Dispos	al Facility	У		
Surface Ow	rner			Mineral C	Dwner	ier API No.						
				LOCA	ATIO	N OF REI	EASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	Vest Line	County		
	14	100	205									
	14	105	32E		I					Lea Count	y, NM	
			I	atitude <u>N 33.4</u>	<u>4252°</u>	Longitu	de <u>W 103.6470</u>	<u>)9°</u>				
				NAT	URE	OF RELI	LASE					
Type of Rele	ase Oil ar	nd produced w	vater		<u>one</u>	Volume of		ioil	Volume I	Recovered		
Course of Dat	D1						produced water		35 bbls			
Source of Rel	lease Pluj	gged screen of	n injection	pump caused over	erflow		our of Occurrenc @ 10:00 am	e		Hour of Disc		
Was Immedia	Was Immediate Notice Given?						Whom?	·	05/21/201	12 @ 1:22 pn	<u> </u>	
		$\boxtimes$	Yes 🗌	No 🔲 Not Re	quired		king- NMOCD					
By Whom?	Chris Jone					Date and He	our 05/22/2012	2@2:10	pm			
Was a Waterc	ourse Reac	ned?	Yes 🛛	No		If YES, Volume Impacting the Watercourse.						
If a Watawanu												
If a Watercou	ise was imp	acted, Descri	oe Fully.*									
Describe Caus	e of Proble	m and Remed	ial Action	Taken.*	· · · · · · · · · · · · · · · · · · ·					·	•	
A screen on th	e injection	punp became	plugged a	ind caused the tan	ık to ove	erflow. 35 bbi	ls of produced wa	ater were	recovered	l via vacuum	truck a	and the
pump was clea	ined.						-					
Describe Area	Affected an	nd Cleanup Ac	ction Take	n,* 		. 1 . 001 . 0						
remediation wa	as complete	d in accordan	ce with th	affecting an area e remediation plan	approxu a approxu	mately 20° x 2 red by Geoffre	20′. 35 bbls of pr	roduced r	water were	e recovered a	nd addi	tional
	•				" "Ppro"	ed by George	by Loaning Of Min		0.4/20/201	.4,		
I hereby certify	that the in	formation give	en above i	s true and comple	te to the	best of my ki	nowledge and un	derstand	that nureu	ant to NMO	CD mile	n and
regulations an	operators ai	e required to	report and	/or tile certain rel	ease not	ifications and	perform correcti	ve action	ie for rola	see which m	are and	1000
public nearm o	r me enviro	nment. The a	cceptance	of a C-141 report	bv the l	NMOCD mari	ked as "Final Rei	nort <sup>a</sup> doe	e not relie	ve the operat	or of H	ability
or the environ	ient. In add	lition. NMOC	equatery n D accepta	nvestigate and ren nce of a C-141 re	nediate (	contamination	that pose a threat the operator of re-	at to grou	and water,	surface wate	r, huma	in health
federal, state, o	r local laws	and/or regula	tions.		portaioc	s not relieve t	are operator of re	sponsioi	ity tor coi	mpliance wit	n any o	ther
CI	aria lana	Digitally signed by Chris DN: cn=Chris Janes, o, or					OIL CONS	ERVA	TION I	DIVISION	J	
Signature:	ins Jone	S amail=ckjones888@yaha c=US Date: 2015.03.02 13;38;5					······································				÷.	
· · · · · · · · · · · · · · · · · · ·	·····				<sub>A</sub> ,	aproved by Fr	vironmental Spe	nialista				
Printed Name:	Christopl	ter Jones				-provou by El	ivitorinentai spe	oranist:				
Title: HES S	pecialist				Δ.	proval Date:		E	piration D	nte:		
						-		L LX	piration D	arc.		
E-mail Address	<u>Christo</u>	pher_Jones@a	oxy.com		Co	onditions of A	pproval:			Attached [	٦	
Date: 22	7115		Phone:						Ì		1	

\* Attach Additional Sheets If Necessary

E-mail Address:

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

**Release Notification and Corrective Action** 

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

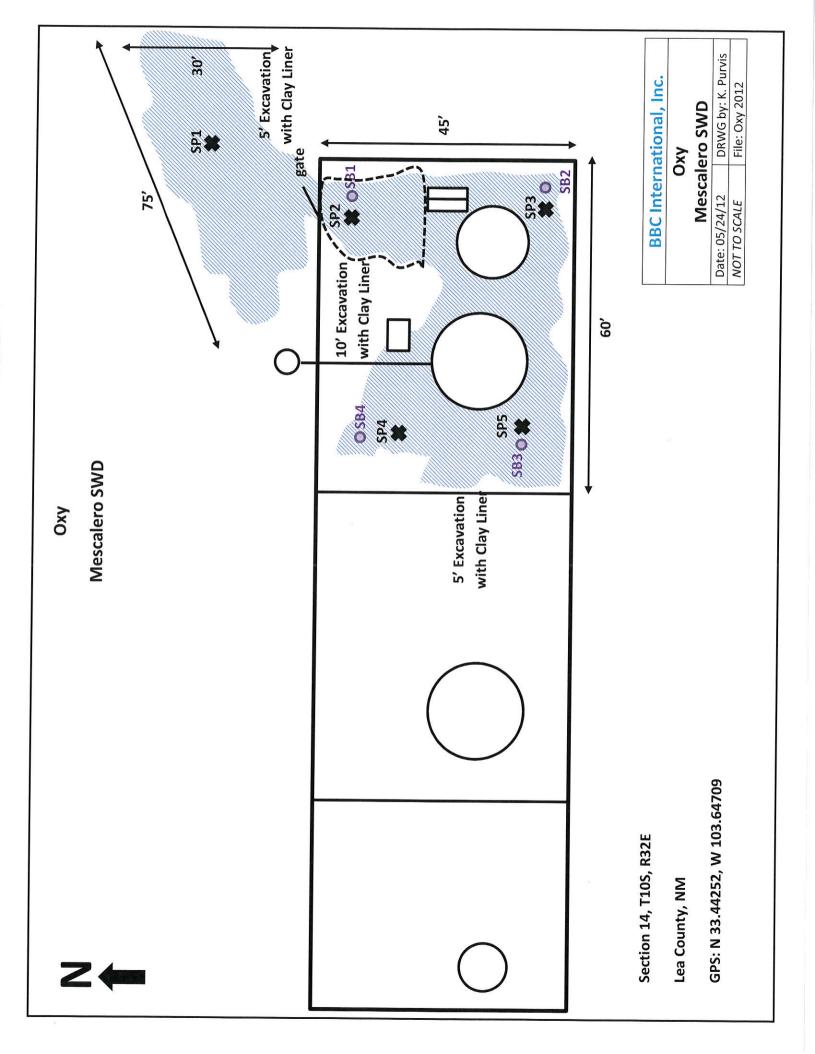
Attached

HT241444444						<b>OPERA</b>	TOR	[	🗌 Initi	al Report	$\boxtimes$	Final Report
Name of Co		Oxy Permia				Contact (	Christopher Jone	es				
		ommerce D	r., Carlsb	ad, NM		Telephone I		3-4121	·			
Facility Nat	ne Mese	calero SWD				Facility Typ	e Salt Water	Disposa	l Facility	/		
Surface Ow	ner			Mineral O	wner				API No	),		
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/We	est Line	County		
к	14	10S	32E							Lea County,	NM	
			I	atitude <u>N 33.44</u>	<u>1252°</u>	Longitu	de <u>W 103.6470</u>	<u>9°</u>		<u>, , , , , , , , , , , , , , , , , , , </u>		
				NAT	URE	OF RELI	EASE					
Type of Relea	ise Oil ar	id produced w	/ater			Volume of				lecovered		
Source of Rel	ease Pac	king on tri-ple	x numn n	lunger failed			is produced water our of Occurrence		99 bbls	Hour of Disco		
			չ եզաե ե	langer lanea		05/23/2012	@ 5:00 am			2 @ 10:00 an		
Was Immediate Notice Given?					quired	If YES, To	Whom? eking- NMOCD			<u></u>		
By Whom?	Chris Jone		·····			Date and H	our 05/24/2012	2 @ 9:16 a	อเท			
Was a Waterc	ourse Reacl	ned?	Yes 🛛	No		If YES, Vo	lume Impacting th	he Waterc	course.			
Describe Caus The packing o vacuum truck.				Taken.* 10 bbls of oil and	produc	ced water to le	ak onto the grour	nd. 99 bb	ls of prod	luced water w	ere rec	overed via
Describe Area Oil and produc NMOCD on 04	ed water lea	nd Cleanup Ar aked onto the	ction Take ground.	en.* Remediation was c	omplet	ed in accorda	nce with the reme	diation pl	lan appro	ved by Geoffr	ey Lek	cing of
regulations all public health o should their op	operators and the enviro erations have tent. In add	e required to nment. The a /e failed to ad lition, NMOC and/or regula	report and cceptance equately i CD accepta itions.	s true and complet l/or file certain rele of a C-141 report nvestigate and rem unce of a C-141 rep	ease no by the rediate	tifications and NMOCD man contamination	l perform correcti ked as "Final Rep that pose a three	ve actions port" does	s for relea s not relie nd water	uses which ma we the operate surface water	y enda or of lia	anger ability
Signature:	ris Jon	email=ckjones	888@yahoo.com				OIL CONS	ERVA	TION I	DIVISION		
Printed Name:	Christopl		02 13:39:12 -06'0	3	A	pproved by E	nvironmental Spe	cialist:				
	pecialist				A	pproval Date:		Exp	iration D	ate:		
								A				

Conditions of Approval:

2/2 7115 Date; Phone: \* Attach Additional Sheets If Necessary

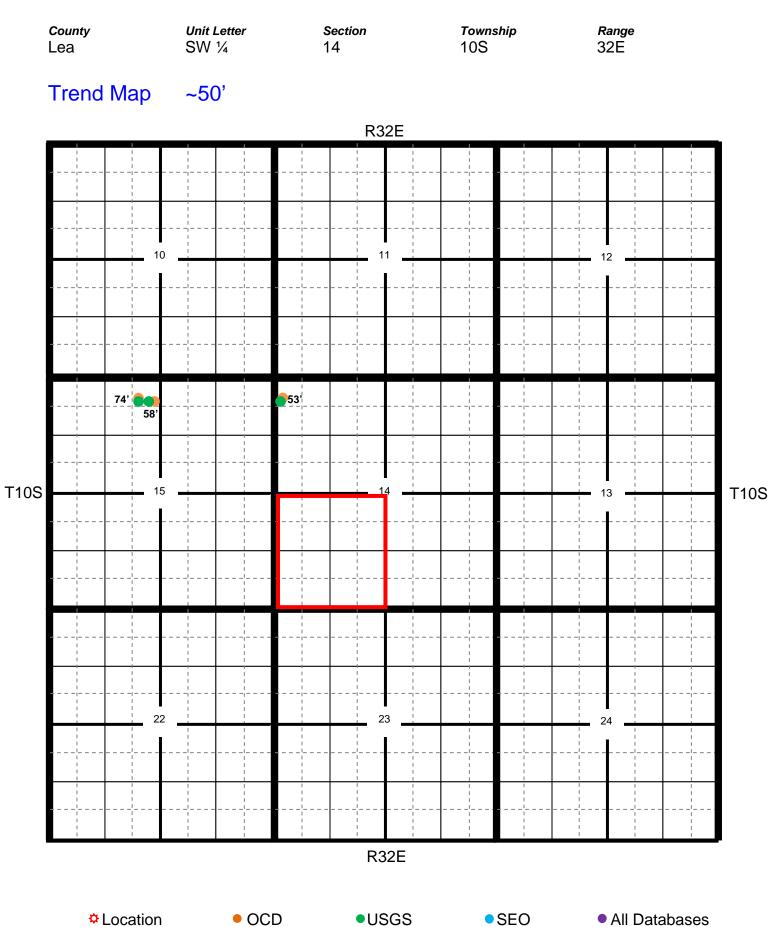
Christopher Jones@oxy.com





**Groundwater Plot** 

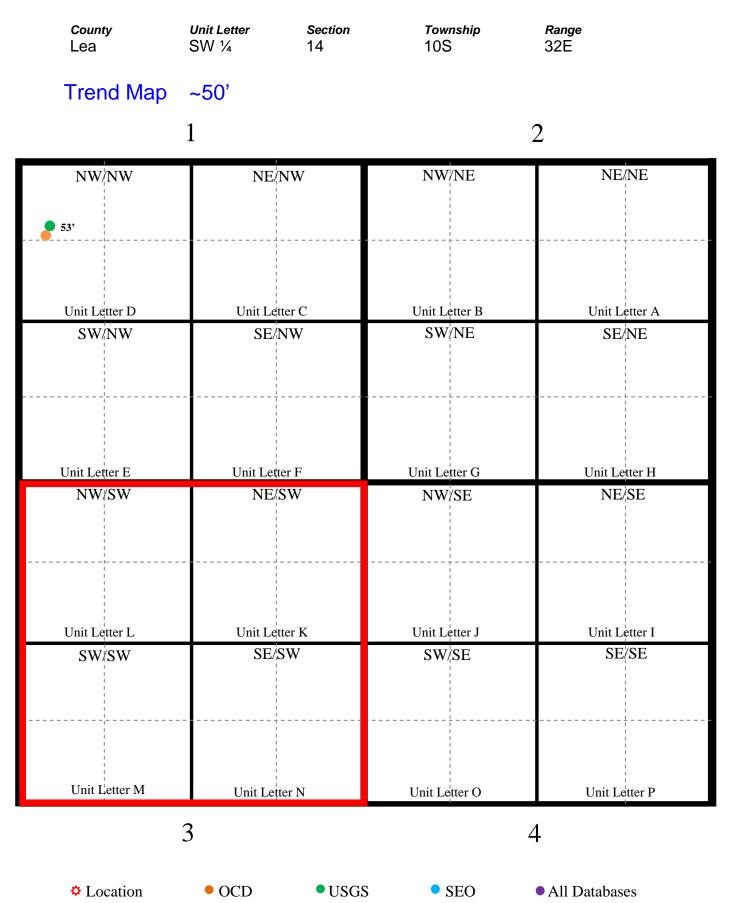
## Oxy Mescalero SWD





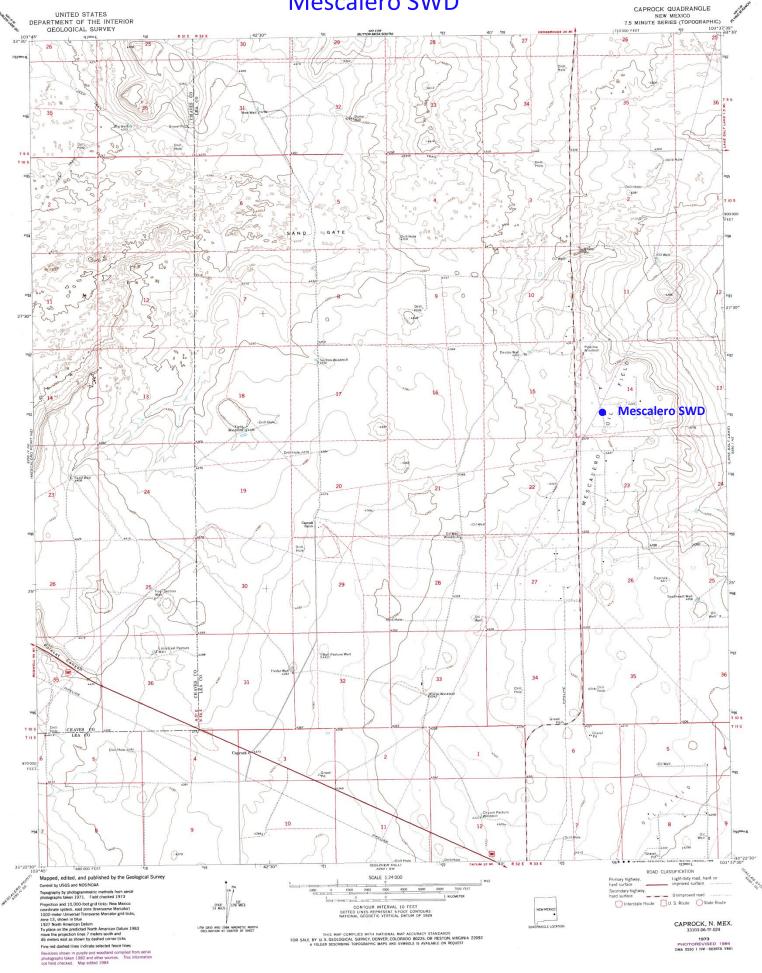
Section Quarters

## Oxy Mescalero SWD



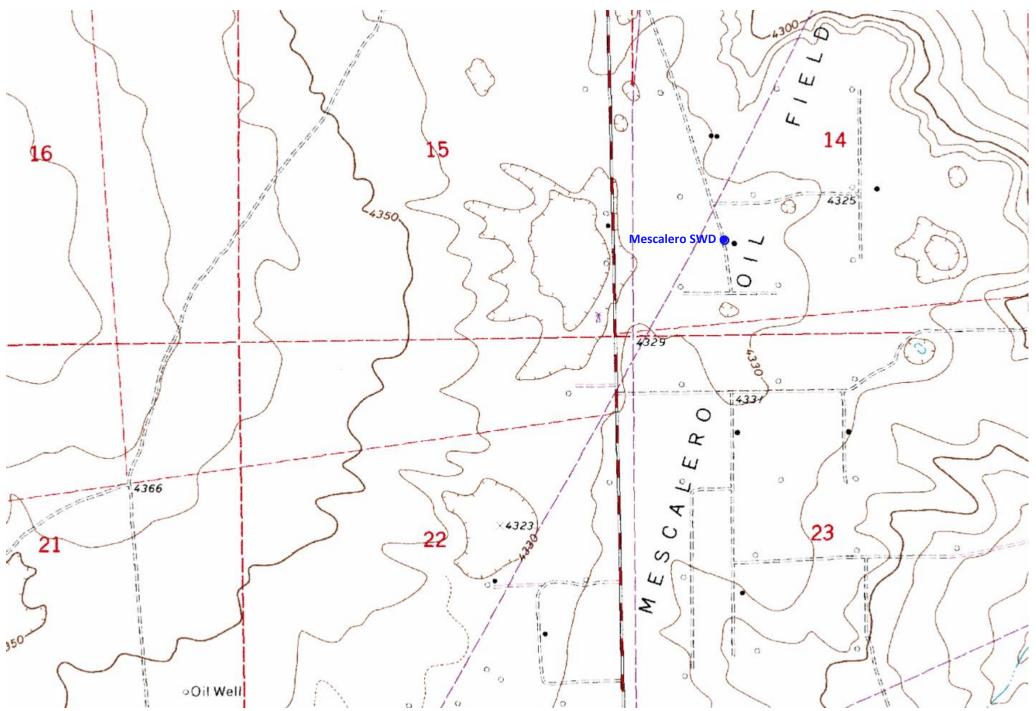
# Оху

Mescalero SWD



Оху

**Mescalero SWD** 



### Laboratory Analytical Results Summary OXY, Mescalero SWD

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.437	<0.050	<0.050
Toluene	BTEX 8021B		4.26	0.324	<0.050
Ethylbenzene	BTEX 8021B		11.5	0.74	0.113
Total Xylenes	BTEX 8021B		9.06	0.872	0.159
Chloride	SM4500CI-B		1200	2200	976
GRO	TPH 8015M		214	<100	<50.0
DRO	TPH 8015M		3240	803	314

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.095	0.095	<0.050
Toluene	BTEX 8021B		1.07	1.13	0.322
Ethylbenzene	BTEX 8021B		3.1	3.53	1.38
Total Xylenes	BTEX 8021B		2.53	2.64	1.3
Chloride	SM4500CI-B		9100	4400	5680
GRO	TPH 8015M		<100	<100	<50.0
DRO	TPH 8015M		1320	4360	1660

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		6.42	<0.050	<0.050
Toluene	BTEX 8021B		45.9	0.472	0.449
Ethylbenzene	BTEX 8021B		87.3	1.4	1.56
Total Xylenes	BTEX 8021B		55.1	2.61	1.4
Chloride	SM4500CI-B		10600	5920	5200
GRO	TPH 8015M		1000	205	<100
DRO	TPH 8015M		6620	4690	1900

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		13	2.87	8.85
Toluene	BTEX 8021B		69.2	11	46.6
Ethylbenzene	BTEX 8021B		121	16.6	74
Total Xylenes	BTEX 8021B		86.5	11	44.3
Chloride	SM4500CI-B		4160	7840	8000
GRO	TPH 8015M		2650	292	1110
DRO	TPH 8015M		25000	6870	8930

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	6/1/12	6/1/12	6/5/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		6.64	<0.050	<0.050
Toluene	BTEX 8021B		43.4	0.251	<0.050
Ethylbenzene	BTEX 8021B		89	1.07	0.052
Total Xylenes	BTEX 8021B		58.4	0.894	<0.150
Chloride	SM4500CI-B		8600	2280	2800
GRO	TPH 8015M		1830	181	<50.0
DRO	TPH 8015M		13300	8160	184

# Laboratory Analytical Results Summary OXY, Mescalero SWD

		Sample	SB1 @ 5'	SB1 @ 10'	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB1 @ 57'
Analyte	Method	Date	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	< 0.050	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	< 0.050	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500CI-B		3240	4480	2600	432	608	304	256
GRO	TPH 8015M		<50.0	<10.0	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		261	36.5	n/a	45.7	n/a	n/a	130

		Sample	SB2 @ 5'	SB2 @ 10'	SB2 @ 20'	SB2 @ 30'	SB2 @ 40'	SB2 @ 50'	SB2 @ 55'
Analyte	Method	Date	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	n/a	< 0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		0.098	<0.050	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500CI-B		3120	1070	2240	1660	1170	304	368
GRO	TPH 8015M		<50.0	<50.0	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		319	276	n/a	<10.0	n/a	n/a	103

		Sample	SB3 @ 5'	SB3 @ 10'	SB3 @ 20'	SB3 @ 30'	SB3 @ 40'	SB3 @ 50'	SB3 @ 57'
Analyte	Method	Date	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12	6/27/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	<0.050	n/a	n/a	< 0.050
Toluene	BTEX 8021B		< 0.050	n/a	n/a	<0.050	n/a	n/a	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a	<0.050	n/a	n/a	< 0.050
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500CI-B		3680	1330	2160	1630	1380	560	80
GRO	TPH 8015M		<10.0	n/a	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		220	n/a	n/a	70.2	n/a	n/a	<10.0

# Laboratory Analytical Results Summary OXY, Mescalero SWD

		Sample	SB4 @ 5'	SB4 @ 10'	SB4 @ 20'	SB4 @ 30'	SB4 @ 40'	SB4 @ 50'	SB4 @ 57'
Analyte	Method	Date	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150	n/a	n/a	<0.150
Chloride	SM4500CI-B		6560	784	3680	4160	5200	2320	320
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		137	27.6	n/a	34.6	n/a	n/a	<10.0



June 15, 2012

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

RE: MESCALERO SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/07/12 16:45.

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/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/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.

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,

Celez D. Keine

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:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 1 @ 1' (H201291-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.437	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	4.26	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	11.5	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	9.06	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	
Surrogate: 4-Bromofluorobenzene (PID	151	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	06/08/2012	ND	400	100	400	0.00	
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	214	100	06/08/2012	ND	179	89.5	200	2.34	
DRO >C10-C28	3240	100	06/08/2012	ND	184	91.8	200	9.04	
Surrogate: 1-Chlorooctane	107	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	168	% 63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 1 @ 3' (H201291-02)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	0.324	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	0.740	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	0.872	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	
Surrogate: 4-Bromofluorobenzene (PID	117	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	06/08/2012	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	<100	100	06/08/2012	ND	179	89.5	200	2.34	
DRO >C10-C28	803	100	06/08/2012	ND	184	91.8	200	9.04	
Surrogate: 1-Chlorooctane	76.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	126	% 63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 2 @ 1' (H201291-03)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.095	0.050	06/11/2012	ND	1.74	87.1	2.00	3.84	
Toluene*	1.07	0.050	06/11/2012	ND	1.75	87.3	2.00	3.65	
Ethylbenzene*	3.10	0.050	06/11/2012	ND	1.75	87.7	2.00	5.10	
Total Xylenes*	2.53	0.150	06/11/2012	ND	5.29	88.2	6.00	4.57	
Surrogate: 4-Bromofluorobenzene (PID	123	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9100	16.0	06/11/2012	ND	432	108	400	0.00	
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	<100	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	1320	100	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	99.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	191	% 63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 2 @ 3' (H201291-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.095	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	1.13	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	3.53	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	2.64	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	112	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	06/11/2012	ND	432	108	400	0.00	
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	<100	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	4360	100	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	102	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	216	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 3 @ 1' (H201291-05)

BTEX 8021B	mg	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.42	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	45.9	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	87.3	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	55.1	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	124	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	06/11/2012	ND	432	108	400	0.00	
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	1000	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	6620	100	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	209	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	269	% 63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 3 @ 3' (H201291-06)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.472	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.40	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	2.61	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	195	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/11/2012	ND	432	108	400	0.00	
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	205	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	4690	100	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	128	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	220	% 63.6-15	4						

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Celey D. Keine

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:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 4 @ 1' (H201291-07)

BTEX 8021B	mg,	′kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.0	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	69.2	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	121	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	86.5	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	125	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	06/11/2012	ND	432	108	400	0.00	
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	2650	200	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	25000	200	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	245	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	621	63.6-15	4						

#### Cardinal Laboratories

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Celey D. Keine

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:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 4 @ 3' (H201291-08)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.87	0.500	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	11.0	0.500	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	16.6	0.500	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	11.0	1.50	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	114	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7840	16.0	06/11/2012	ND	432	108	400	0.00	
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	292	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	6870	100	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	123	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	300	% 63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 5 @ 1' (H201291-09)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.64	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	43.4	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	89.0	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	58.4	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	06/11/2012	ND	432	108	400	0.00	
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	1830	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	13300	100	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	162	65.2-14	0						
Surrogate: 1-Chlorooctadecane	384	63.6-15	4						

#### Cardinal Laboratories

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Celey D. Keine

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:	06/07/2012	Sampling Date:	06/01/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 5 @ 3' (H201291-10)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.251	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.07	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	0.894	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	06/11/2012	ND	432	108	400	0.00	
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	181	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	8160	100	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	150	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	306	% 63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/05/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 1 @ 4' (H201291-11)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	<0.050	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	0.113	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	0.159	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	06/11/2012	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	314	50.0	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	84.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	117 9	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/05/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 2 @ 4' (H201291-12)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.322	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.38	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	1.30	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	125	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/11/2012	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	1660	50.0	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	90.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	142	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/05/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 3 @ 4' (H201291-13)

BTEX 8021B	mg	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	0.449	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	1.56	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	1.40	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	138	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	06/11/2012	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	1900	100	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	95.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	152	% 63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/05/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 4 @ 4' (H201291-14)

BTEX 8021B	mg	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.85	1.00	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	46.6	1.00	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	74.0	1.00	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	44.3	3.00	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	117	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	06/11/2012	ND	432	108	400	0.00	
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	1110	100	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	8930	100	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	215	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	333	63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

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:	06/07/2012	Sampling Date:	06/05/2012
Reported:	06/15/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SP 5 @ 4' (H201291-15)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2012	ND	1.77	88.5	2.00	9.68	
Toluene*	<0.050	0.050	06/12/2012	ND	1.80	90.0	2.00	9.77	
Ethylbenzene*	0.052	0.050	06/12/2012	ND	1.83	91.6	2.00	10.1	
Total Xylenes*	<0.150	0.150	06/12/2012	ND	5.59	93.2	6.00	8.99	
Surrogate: 4-Bromofluorobenzene (PID	103 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	06/11/2012	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2012	ND	170	85.1	200	9.05	
DRO >C10-C28	184	50.0	06/11/2012	ND	168	84.2	200	9.87	
Surrogate: 1-Chlorooctane	111 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	151 9	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476	ATORIES bbs, NM 88240	СНА	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
Company Name: BBC International, Inc	Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson		P.O. #:	
Address: P.O. Box 805		Company:	
city: Hobbs	State: NM Zip: 88241	Attn:	
Phone #: 575-397-6388 Fi	Fax #: 575-397-0397	Address: SAME	
Project #: Mescalero P	Project Owner:		
S ANTINOSAN	0	State: Zip:	
Project Location:	Musa Rel	#	
Sampler Name: TEFF OLLU		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	AB OR (C)OMF NTAINERS UNDWATER TEWATER	/BASE: COOL	TPH BIEX 12-
H201291	# CC		-
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3 502 07	52 1	11/211-0	
0	011	1 6.1.12 110	
SUS		1 61.12 8	
1 0 has 2		1 111 100	
	1 1 2	1 41.12 1130	
1 25 m	*	1 6712 1140	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim anising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including these for proglemee 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	exclusive remedy for any claim arising whether based in contract or tort, shall be limite a whatsoever shall be deemed waived unless made in writing and received by Cardina	or tort, shall be limited to the amount paid by the cli d received by Cardinal within 30 days after completion	
effilietes or successors arising out of or related to the performance of se	initial damages, including without limitation, business interruptions, loss of use, ervices hereunder by Cardinal, regardless of whether such claim is based up	loss of use, or loss of profits incurred by client, its subsidiaries is based upon any of the above stated reasons or otherwise.	
Pellenhum	Time: 7.7 Received by:	AN	It: D Yes D No Add'I Phone #: Ves D No Add'I Fax #:
Relinquished By:	, qu Received By:	0	changed as an Kather. 4/15/12.
Strd,	0	N DAM	1 0
Delivered By: (Circle One)	Samp	Ion CHECKED BY:	
Sampler - UPS - Bus - Other:			
† Cardinal cannot accept verbal cha	es	505-393-2476	
	H	+26	

Arring a reveal sum (-valuated to the performance) of anyoge, finding without limitation, basies interruptions, loss of use, or loss of perfets incurred by cleric in subadiative.           Relinquished By:         Date:         7 / 2         Received By:         Find a reveal and the metric incurred by cleric incurred by:         Date:         7 / 2         Received By:         Find a reveal and the metric incurred by cleric incurred by:         Date:         7 / 2         Received By:         Find a result         Find a result incurred by cleric incurred by:         Find a result incurred by cleric incurred by cleric incurred by:         Find a result incurred by cleric incurred by cleric incurred by cleric incurred by:         Find a result incurred by cleric incurred by:         Find a result incurred by cleric incurred	Project Name:         P.O. Box 805         State: NM         Zip:           Project #:         Address:         F.S.397-6388         Fax #:         575-397-6388         Fax #:         State:         Zip:           Project Name:         Address:         Address:         CM/L         Project Name #:         State:         Zip:           Project Name:         Total Address:         CM/L         Marrix         Proserv         Fax #:           Sample Name:         Total Address:         CM/L         Marrix         Preserv         Sample Name:         Fax #:           ILab I.D.         Sample I.D.         GR ASTEWATER         MATRIX         Preserv:         Sample Name:         Fax #:           ILab I.D.         Sample J.D.         GR ASTEWATER         Marrix         Preserv:         Sample Name:         Fax #:           ILab I.D.         Sample J.D.         GR ASTEWATER         Marrix         Preserv:         Sample Name:         Fax #:	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc.
By: Government is based upon my of the above stated reactors or otherwise. By: Cool inflact Cool inflact No No No 1 changes to 505-393-2476	P.O. #:       241     Attn:       7     Address:       7     Address:       8     Oil       0il     State:       17     Address:       18     State:       18     State:       19     OTHER:       102     OTHER:       1030     OTHER:       104     State:       105     State:       107     State:       108     ICE / COOL       109     State:       1130     State:       1130     TDH	CHAIN-OF-
□ Yes □ No Add'I Phone #: □ Yes □ No Add'I Fax #:		CUSTODY AND ANALYSIS REQUEST



July 06, 2012

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

RE: MESCALERO SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/29/12 17:00.

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/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/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.

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,

Celez D. Keine

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:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 1 @ 5' (H201483-01)

BTEX 8021B	mg/	'kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/06/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	104 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	261	50.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	73.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 9	63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

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:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 1 @ 10' (H201483-02)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	36.5	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	82.0 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.2 9	63.6-15	1						

## Sample ID: SB 1 @ 20' (H201483-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/03/2012	ND	416	104	400	0.00	

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

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:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 1 @ 30' (H201483-04)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	104 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	45.7	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	83.6	65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.1	63.6-15	1						

## Sample ID: SB 1 @ 40' (H201483-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	07/03/2012	ND	416	104	400	0.00	

#### Cardinal Laboratories

\*=Accredited Analyte

Celey D. Keine

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:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 1 @ 50' (H201483-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/03/2012	ND	416	104	400	0.00	

### Sample ID: SB 1 @ 57' (H201483-07)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	130	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	85.3	% 65.2-14	0						

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Surrogate: 1-Chlorooctadecane

#### \*=Accredited Analyte

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Celey D. Keine

112 %

63.6-154

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:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 2 @ 5' (H201483-08)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/06/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	0.098	0.050	07/06/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	103	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	319	50.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	85.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	109	63.6-15	4						

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 2 @ 10' (H201483-09)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	276	50.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	82.7 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 %	63.6-15	1						

## Sample ID: SB 2 @ 20' (H201483-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 2 @ 30' (H201483-11)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	<10.0	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	87.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.7	% 63.6-15	1						

## Sample ID: SB 2 @ 40' (H201483-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 2 @ 50' (H201483-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/03/2012	ND	416	104	400	0.00	

## Sample ID: SB 2 @ 55' (H201483-14)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	101	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	

 DRO >C10-C28
 103
 10.0
 07/03/2012

 Surrogate: 1-Chlorooctane
 87.4 %
 65.2-140

 Surrogate: 1-Chlorooctadecane
 104 %
 63.6-154

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0.257

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 3 @ 5' (H201483-15)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	220	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	85.3 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.7 9	63.6-15	1						

## Sample ID: SB 3 @ 10' (H201483-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 3 @ 20' (H201483-17)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	07/03/2012	ND	416	104	400	0.00	

## Sample ID: SB 3 @ 30' (H201483-18)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/05/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/05/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/05/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	70.2	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	73.7 %	65.2-1	40						
Surrogate: 1-Chlorooctadecane	86.8 %	63.6-1	54						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 3 @ 40' (H201483-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	07/03/2012	ND	416	104	400	0.00	

### Sample ID: SB 3 @ 50' (H201483-20)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2012	Sampling Date:	06/27/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 3 @ 57' (H201483-21)

BTEX 8021B	mg	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.87	93.7	2.00	7.73	
Toluene*	<0.050	0.050	07/06/2012	ND	1.91	95.3	2.00	7.24	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.94	97.2	2.00	7.96	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.92	98.7	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	<10.0	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.5	% 63.6-15	4						

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Celey D. Keine

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:	06/29/2012	Sampling Date:	06/28/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 4 @ 5' (H201483-22)

BTEX 8021B	mg,	′kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	
Surrogate: 4-Bromofluorobenzene (PID	102	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	137	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	93.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 9	63.6-15	4						

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#### \*=Accredited Analyte

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Celey D. Keine

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BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (505) 397-0397

Received:	06/29/2012	Sampling Date:	06/28/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 4 @ 10' (H201483-23)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	
Surrogate: 4-Bromofluorobenzene (PID	104 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	27.6	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	86.8	65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.0	63.6-15	1						

## Sample ID: SB 4 @ 20' (H201483-24)

Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keine

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:	06/29/2012	Sampling Date:	06/28/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 4 @ 30' (H201483-25)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	34.6	10.0	07/03/2012	ND	201	101	200	0.257	
Surrogate: 1-Chlorooctane	88.69	65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 %	63.6-15	1						

## Sample ID: SB 4 @ 40' (H201483-26)

Chloride, SM4500Cl-B mg/kg		Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	07/03/2012	ND	416	104	400	0.00	

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Celey D. Keine

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:	06/29/2012	Sampling Date:	06/28/2012
Reported:	07/06/2012	Sampling Type:	Soil
Project Name:	MESCALERO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BUTTON MESA ROAD		

#### Sample ID: SB 4 @ 50' (H201483-27)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/03/2012	ND	416	104	400	0.00	

### Sample ID: SB 4 @ 57' (H201483-28)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2012	ND	1.86	93.0	2.00	2.48	
Toluene*	<0.050	0.050	07/06/2012	ND	1.88	94.2	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/06/2012	ND	1.93	96.5	2.00	4.32	
Total Xylenes*	<0.150	0.150	07/06/2012	ND	5.81	96.8	6.00	3.92	
Surrogate: 4-Bromofluorobenzene (PID	101	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/03/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/03/2012	ND	193	96.5	200	1.57	
DRO >C10-C28	<10.0	10.0	07/03/2012	ND	201	101	200	0.257	

Surrogate: 1-Chlorooctane89.4 %65.2-140Surrogate: 1-Chlorooctadecane102 %63.6-154

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

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

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Celey D. Keene, Lab Director/Quality Manager

Page 18 of 21

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name	BBC International, Inc.									BI	11 70						ANAL	YSIS	RE	QUES	ST		1000 C
Project Manager	Cliff Brunson							P.C	). #:														
Address: P.O.	Address: P.O. Box 805			Company:																			
City: Hobbs	State: NM	Zip	: 8	824	1			Att	n:														
Phone #: 575-3	397-6388 Fax #: 575-	39	7-0:	397				Ad	dres	5:													
Project #:	Project Owner	: 0;	кy					Cit	y:													İ	
	Mescalero SWD	•						Sta	te:		Zip:	745											
Project Location	- Caprock							Ph	one	<b>#:</b>		141. · · ·											
Sampler Name:									x #:														
FOR LAB USE ONLY	<u></u>	٦.			MA	TRD	X		PRE	SERV	. SAMPL	ING	Q										
Lab I.D. H 2 <i>0 1</i> 48 <b>3</b>	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME	Chlorid	BTEX	HJL								
1	SB1 @ 5'	G	1		1	1				/	6-27-12	9:42 am	1	1	√.								
2	SB1 @ 10'	G	1		1	/				/	6-27-12	10:01 am	$\checkmark$	$\checkmark$	$\checkmark$							•,,	
3	SB1 @ 20'	G	i		/	/				1	6-27-12	10:19 am	1									 	
나	SB1 @ 30'	G	1		/	/				/	6-27-12	10:31 am	1	$\checkmark$	$\checkmark$					-			
the second second	SB1 @ 40'	G	1		. /	/				4	6-27-12	10:46 am	1										
	SB1 @ 50'	G	1		_/	1				1	6-27-12	11:10 am											
7	SB1 @ 57'	G	1		1	_				/		11:54 am		$\checkmark$	$\checkmark$								
	SB2 @ 5'	G	1		1					1	6-27-12	12:31 am		1	$\checkmark$							 	
	SB2 @ 10'	G				1				1	6-27-12	12:40 pm	- 18	1	1								
I III	SB2 @ 20	G	1		1					/	6-27-12	12:55 pm	1										

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affiliates or successors ansing out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.								
Relinguished By:	Date:	Received By:		Phone Result:	Yes	🗆 No	Add'l Phone #:	
112 0 1	612110	A h	Δ	Fax Result:	□ Yes		Add'I Fax #:	
11 Files	Time:	INVI IN	11 1 19-11	REMARKS:				
VAT USA	SAUG	MALL ARE	A CLET L					
Relinquished By:	Date:	Received By:						
10 0A		V						
	Time:							
		I	1					
Delivered By: (Circle One)		Sample Condition	CHECKED BY:					
		- 50 Cool Intact	(Initials)					
Sampler - UPS - Bus - Other:	تىن	erres Erres	1 TA					
		No No	27 9 "					

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name	BBC International, Inc.								BI	44 70						ANAI	YSIS	S RE	QUE	ST			
Project Manage	r: Cliff Brunson						Р.(	D. #:					6.15 - C			Γ					100		
Address: P.O.	Box 805						Co	mpar	ıy:			1					1						
City: Hobbs State: NM Zip: 88241						Attn:																	
Phone #: 575-3	397-6388 <b>Fax #:</b> 575-	-39	7-0	397			Ad	dress	5:		100										1		
Project #:	Project Owner	:0	ху				Cit	y:										-					
Project Name:	Mescalero SWD							ate:		Zip:					1								
Project Location	n: Caprock			-			Ph	one #	:											2			
Sampler Name:	Jell Ohneles							x #:	-														
FOR LAB USE ONLY			Γ		MATR	IX		PRES	ERV.	SAMPL	ING	1.6											
Lab I.D. H20148 <b>3</b>	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL OII	SLUDGE	OTHER :	ACID/BASE:	OTHER:	DATE	TIME	Chloriel	BTEX	TPH									
	SB2 @ 30'	G	1		/			/	/	6-27-12	1:13 pm	$\checkmark$	$\checkmark$	1									
	SB2 @ 40'	G	)		1				_	6-27-12	1:31 pm	$\checkmark$									-		
	SB2 @ 50'	G	1		1			/		6-27-12	2:00 pm	$\checkmark$							10.100				<del>6</del>
	SB2 @ 55'	G	L		/			-		6-27-12	2:05 pm	$\checkmark$	$\checkmark$	$\checkmark$									
	SB3 @ 5'	G	1		/			/	/	6-27-12	2:41 pm	1	1	1									
	SB3 @ 10'	(ii			1				1	6-27-12	2:47 pm	1											
	SB3 @ 20'	G	1		<			,		6-27-12	3:00 pm	$\checkmark$			14.00								
10 DA 180	SB3 @ 30'	G	1					-		6-27-12	3:18 am	1	✓	1					5.05				
<ul> <li>A second s</li></ul>	SB3 @ 40'	G	1		1		3	1		6-27-12	3:40 pm	$\checkmark$											200 <b>0</b> -00
120	SB3 @ 50'	G	1		/				-	6-27-12	4:09 pm	1		0.0		1	200		898		12 102	8 N	85

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animates of successors arising out or or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.									
Relinquished By:	Date:	Received By:		Phone Result:	□ Yes	□ No	Add'l Phone #:		
$/(r + \Lambda)$	6128112	Ain i bit		Fax Result:	CI Yes		Add'i Fax #:		
Vet CA	Time:	100al Al	enon	REMARKS:					
Relinquished By:	Date:	Received By:		ſ					
	Time:	-							
Delivered By: (Circle One)		Sample Condition	CHEÇKED BY:						
Sampler - UPS - Bus - Other:	-	Cool Intact	(Initials)						

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

(505)	393-2326	FAX (505)	393-2476

Company Name: BBC International, Inc.					14400	BILL TO ANALYSIS REQUEST															
Project Manage	Cliff Brunson						P	.0. #	:												
Address: P.O.	Box 805						с	omp	any:												
City: Hobbs	State: NM	Zip	: 8	8824	11		A	ttn:													
Phone #: 575-3	397-6388 Fax #: 575-	397	7-0	397			A	ddre	ss:												
Project #:	Project Owner	: 0)	ку				с	ity:													
Project Name:	Mescalero SWD						s	tate:			Zip:										
Project Location	n: Caprock						Р	hone	e #:												
Sampler Name:		S					F	ax #:					0								
FOR LAB USE ONLY					MA	ATRIX		PR	ESER	٧.	SAMPL	NG	5								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlor	BTEX	TPH						
	SB3 @ 57'	G	1		/	/			~		6-27-12	4:30 pm	$\checkmark$	1	1						11.11 mar.
	SB4 @ 5'	G	1		1	1			1		6-28-12	9:38 am	$\checkmark$	$\checkmark$	1						
and the second s	,SB4 @ 10'	G	1		/	/			/		6-28-12	9:46 am	$\checkmark$	1	1						
	SB4 @ 20'	G	1		/	_			1		6-28-12	10:30 am	1			<u> </u>					
	SB4 @ 30'	G	1		1	/			1		6-28-12	10:38 am	$\checkmark$	$\checkmark$	1			 	 		
26	SB4 @ 40'	G	1		1	/			1		6-28-12	10:43 am	$\checkmark$						 		
	SB4 @ 50'	G	1		1	_			1		6-28-12	11:00 am	$\checkmark$								
98	SB4 @ 57'	Gy	1		/	/			1		6-28-12	11:15 am	$\checkmark$	1	<ul><li>✓</li></ul>						
	and and a constant of the production of									u.						а п.	100	 			1 - 2120

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affiliates or successors arising out of or related to the performance Relinguished By:	Date:	Received By:	aportany of the above dated for	Phone Result:	□ Yes	□ No	Add'I Phone #:
$1 f f \in \Lambda$	412510	And h	<b>N</b>	Fax Result:	□ Yes	□ No	Add'I Fax #:
Vatt MAX	Time:	6 OR AR	MADR	REMARKS:			
Relinquished By:	Date:	Received By:	100-				
	Time:						
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Delivered By: (Circle One)		Sample Condition	CHECKED BY:				
Sampler - UPS - Bus - Other:		S Cool Intact	(Initials)				
bampier of o Bus - other.			UN				

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

#26

## **Kathy Purvis**

From:	Cliff P. Brunson < cbrunson@bbcinternational.com>
Sent:	Saturday, April 26, 2014 4:00 PM
То:	Geoffrey Leking
Cc:	C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject:	OXY-Mescalero SWD-Remediation Plan
Attachments:	Remediation Packet 2- Mescalero SWD.pdf

Geoff,

This e-mail is to confirm our conversation on April 25, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 5 feet in the entire leak area that is depicted on the attached site diagram and an additional 5 feet (10 feet total) in the area of SP2. A compacted clay liner will then be installed across the entire excavation area and then the site will then be backfilled with clean soil.

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

Thanks, Cliff

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