SITE INFORMATION

1

Report Type: Work Plan Report | RECEIVED

AUG 13 2013

					A00 1 0 2013	
General Site Information:	* **			-	NMOCD ARTESIA	
Site:	SRO 103 Sta	ite SWD			THIOCH ANTESIA	
Company:	COG Operating LLC					
Section, Township, and Range:	17	26S	28E			
Lease Number:	API# 30-01	5-24462				
County:	Eddy County	y, NM				
GPS:	N 32 02.232	2	W 104 06.9	944		
Surface Owner:	State					
Mineral Owner:						
Directions:		, turn Right and	d go West on Wh	·	ad (CR720) and US Hwy 285, go load for 2.9 miles, turn South for 1.8	
Release Data:				·	And the second s	
Date Released:	11/4/2011		· · · · · · · · · · · · · · · · · · ·	<u> </u>		
Type of Release:	Oil, Produce	ed water				
Source of Contamination:	Pump failur		tanks			
Fluid Released:	2 bbls oil, 10	000 bbls p	roduced wat	ter		
Fluids Recovered:	2 bbls oil, 9:	10 bbls pro	oduced wate	r		
Official Communication:				·		
Name:	Pat Ellis			Cliff Br	unson	
Company:	COG Operat	ting LLC		BBC International, Inc.		
Address:	550 W. Texa	as Ave., Ste	e. 1300	1324 W. Marland		
PO Box:				PO Box	c 805	
City, State, Zip Code:	Midland, TX	79701		Hobbs,	, NM 88241	
Phone Number:	(432) 686-3	023		(575) 3	397-6388	
Fax:	(432) 684-7	137		(575) 3	397-0397	
Email:	pellis@cond	choresourc	es.com	cbruns	on@bbcinternational.com	
Ranking Criteria:						
Depth to Groundwater:	Ra	nking Sco	ore		Site Data	
<50 ft.		20				
50-99 ft.		10			10	
>100 ft.		0		<u></u>		
Well Head Protection:		nking Sco	ore		Site Data	
Water Source <1,000 ft., Private <200		20		<u> </u>		
Water Source >1,000 ft., Private >200		0		<u></u>	0	
Surface Body of Water:	Ra	inking Sco	ore		Site Data	
<200 ft.	<u> </u>	20				
200 ft 1,000 ft.		10		<u> </u>		
>1,000 ft.	<u></u>	0		<u> </u>	0	
Total Ranking Score:		10	, 1	:		
				-		

Acceptable Soil RRAL (mg/kg)							
Benzene Total BTEX TPH							
10	50	5000					





COG Operating LLC

SRO 103 State SWD

(Release Date: 11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, New Mexico GPS: N 32 02.232 W 104 06.944

ENVIRONMENTAL SITE INVESTIGATION

CLOSURE REPORT

PERFORMED BY:

BBC INTERNATIONAL, INC.
WORLD-WIDE ENVIRONMENTAL SPECIALISTS
1324 W. MARLAND BLVD.
P. O. BOX 805
HOBBS, NEW MEXICO 88240
(575) 397-6388 • FAX (575) 397-0397

June 24, 2013

PREPARED FOR:

MR. PAT ELLIS
MANAGER, HSE
COG OPERATING LLC
FASKEN CENTER TOWER II
550 WEST TEXAS AVENUE, SUITE 100
MIDLAND, TEXAS 79701

Mr. Mike Bratcher Compliance Officer Oil Conservation Division, District 2 811 South First Artesia, NM 88210

Re: Closure plan for COG Operating LLC, SRO 103 State SWD, Unit M, Section 17, Township 26 South, Range 28 East, Eddy County, NM

1.0 SITE CHARACTERIZATION

The subject site is located Southeast of Carlsbad, in Section 17, Township 26 South, and Range 28 East, Eddy County, NM. The GPS coordinates are N 32 02.232 W 104 06.944. The site consists of undeveloped rangeland and petroleum production facilities. On November 4, 2011, a bad sensor and faulty relay panel prevented the pump from working, in turn causing the produced water tank to overflow. The spill measured approximately 20' x 500' on the lease pad, in the pasture, and on the lease road. Approximately 1000 bbls of produced water and 2 bbls of oil were released with roughly 910 bbls of produced water and 2 bbls of oil being recovered via vacuum truck.

A diagram of the location including sample points can be reviewed in Appendix I of this report. The surface soil at this location is light brown to brown sand, red clay, and tan caliche. There is not a water source within 1,000 feet of this site. Based on the data from the Eddy County Groundwater Map, the depth to groundwater in Section 17, Township 26 South, and Range 28 East is less than or approximately 100 feet. The initial C-141 for this leak is located in Appendix III of this report.

2.0 SITE INVESTIGATION ACTIVITIES

After initial spill response activities had been conducted by COG. BBC personnel conducted a delineation of the site on December 14th and 15th of 2011. Seven sample points were taken in the leak area at various depths. The samples were taken to Cardinal Laboratories for BTEX, TPH, and chloride analysis. The BTEX and TPH results for all seven sample points at a depth of 1 foot were non-detectable, except for the DRO result at SP6 at 1 foot; it was 222 mg/Kg. The chloride results for SP1 were 9,600 mg/Kg at 1 foot, 8,600 mg/Kg at 4 feet, 3,120 mg/Kg at 7 feet, 1,060 mg/Kg at 9 feet, and 622 mg/Kg at 12 feet. At SP2, the chloride results were 10,500 mg/Kg at 1 foot, 1,180 mg/Kg at 3 feet, and 176 mg/Kg at 5 feet. The chloride results for SP3 were 8,930 mg/Kg at 1 foot, 928 mg/Kg at 4 feet, and 144 mg/Kg at 6 feet. At SP4, the chloride results were 240 mg/Kg at 1 foot, 160 mg/Kg at 3 feet, and 224 mg/Kg at 5 feet. The chloride results for SP5 were 448 mg/Kg at 1 foot, 2,040 mg/Kg at 3 feet, and 768 mg/Kg at 5 feet. At SP6, the chloride results were 5,520 mg/Kg at 1 foot, and 6,320 mg/Kg at 2 feet. The chloride results for SP7 were 9,200 mg/Kg at 1 foot, 1,880 mg/Kg

at 3 feet, 448 mg/Kg at 5 feet, and 288 mg/Kg at 7 feet. Upon review of the laboratory results, it was determined that further sampling was warranted. Therefore, additional samples were taken at 14 feet and 16 feet at SP1, at 6 feet and 7 feet at SP5, and at 3 feet, 4 feet, and 5 feet at SP6. The samples were taken to Cardinal Laboratories for chloride analysis. The chloride results at SP1 were 464 mg/Kg at 14 feet and 272 mg/Kg at 16 feet. At SP5, the chloride results were 400 mg/Kg at 6 feet, and 144 mg/Kg at 7 feet. The chloride results for SP6 were 928 mg/Kg at 3 feet, 288 mg/Kg at 4 feet, and 48 mg/Kg at 5 feet. Once the excavation was complete, BBC personnel conducted confirmation sampling of the sidewalls and bottom. Twelve sidewall samples and three bottom samples were taken in the excavation area on June 5, 2013. The samples were taken to Cardinal Laboratories for analyzing. The chloride results were 368 mg/Kg at Sidewall 1, 592 mg/Kg at Sidewall 2, 176 mg/Kg at Sidewall 3, 240 mg/Kg at Sidewall 4, 176 mg/Kg at Sidewall 5, 208 mg/Kg at Sidewall 6, 352 mg/Kg at Sidewall 7, 416 mg/Kg at Sidewall 8, 256 mg/Kg at Sidewall 9, 48 mg/Kg at Sidewall 10, 32 mg/Kg at Sidewall 11, and 512 mg/Kg at Sidewall 12. The chloride results were 80 mg/Kg at Bottom 1, 64 mg/Kg at Bottom 2, and <16.0 at Bottom 3. The results of the analysis are located in Appendix II of this report. The sample points and confirmation sampling locations can be viewed on the site diagrams in Appendix I of this report.

3.0 CONCLUSION AND RECOMMENDATION

On September 23, 2012, BBC personnel sent a proposed remediation plan to Mike Bratcher of NMOCD. Mike Bratcher approved the plan via email on October 17, 2012. Remediation correspondence is located in Appendix IV of this report.

In accordance with the approved remediation plan, excavation was completed by removing the impacted soil to a depth of 5 to 6 feet in the area of SP1, to a depth of 1 foot in the areas of SP2 and SP3, and to a depth of 3 feet in the areas of SP6 and SP7. A surface scrape was completed in the areas of SP4 and SP5. Confirmation sampling was conducted and reviewed prior to backfilling the site with clean soil. The lab results for the confirmation sampling can be viewed in Appendix II of this report.

Thus, BBC requests closure of the site since all remediation activities have been completed as described in the approved plan. Also, a final C-141 is located in Appendix III of this report.

APPENDIX I

Site Diagram

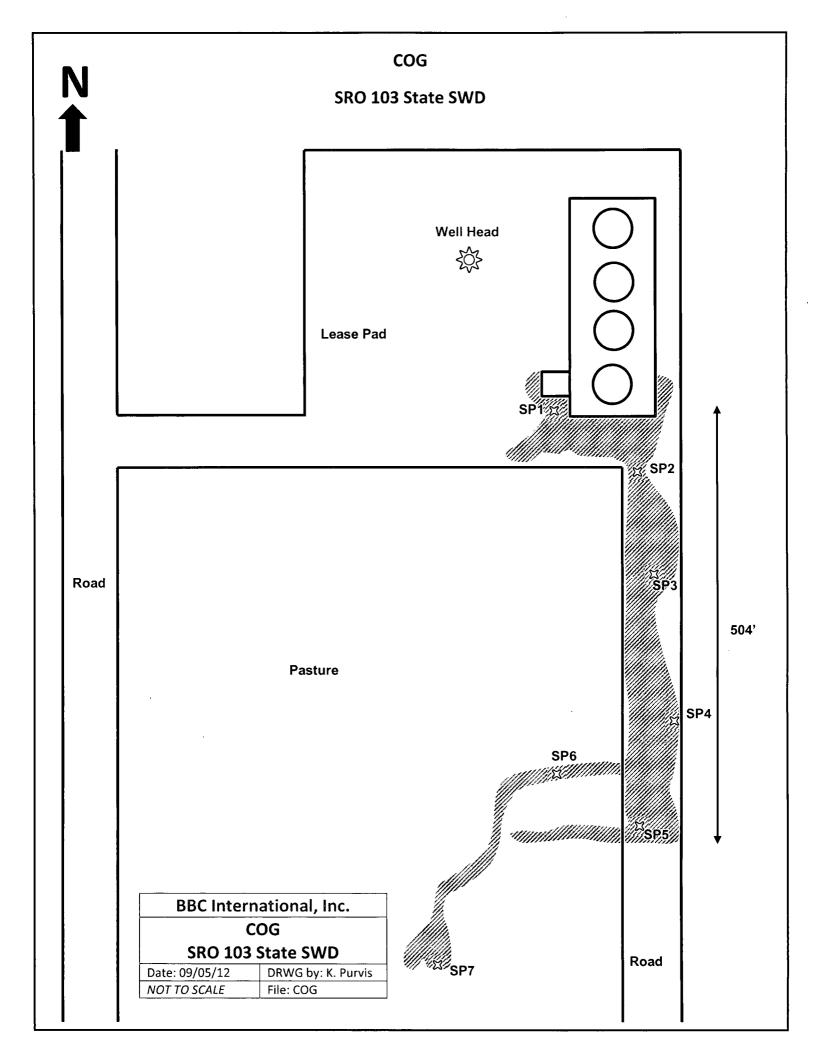
September 2012 and June 2013

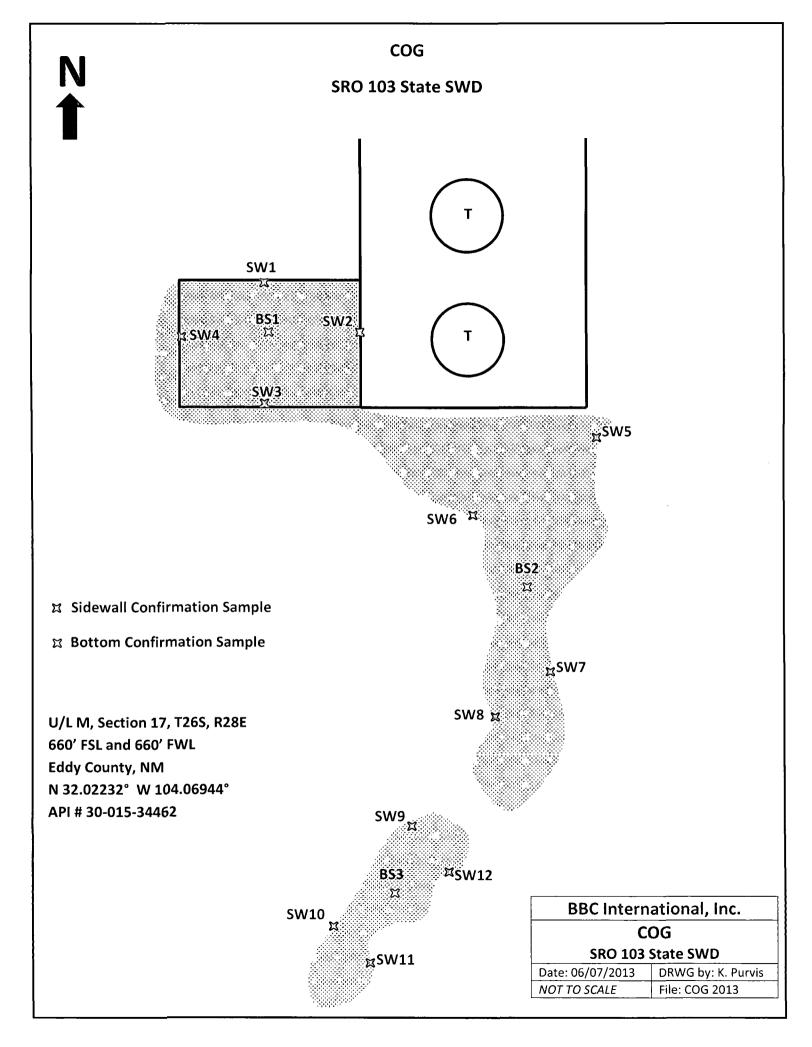
SRO 103 State SWD (11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, NM GPS: N 32 02.232 W 104 06.944

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.





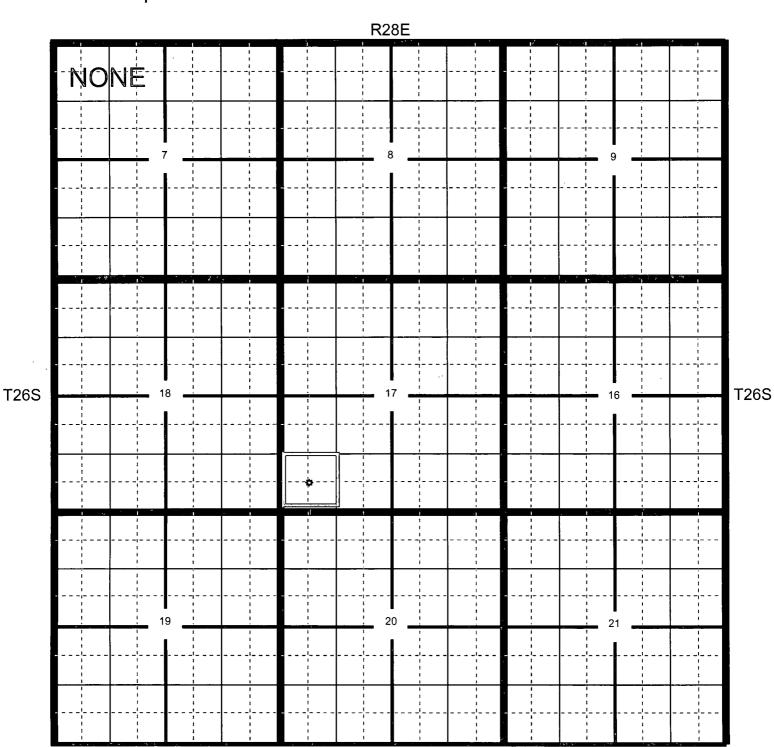


Groundwater Plot

COG SRO 103 State SWD

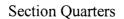
CountyUnit LetterSectionTownshipRangeEddyM17T26SR28E

Trend Map <100'



R28E

Description ○ OCD ○ USGS ○ SEO ● All Databases





COG SRO 103 State SWD

County Eddy

Unit Letter M

Section 17 Township T26S Range R28E

Trend Map <100'

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
SVVIIVV		S W (TVL	
; ! !	1 1 1		† †
1 1 1			; 1 ·
. 1			
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
1	† ! !		† !
		! !	1
	!	!	
	;		; ; ;
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
	\$ \$ 1		, 1 1
		; 1 1	
∦		!	
	\$ \$ \$;	
			1
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

☼ Location

o OCD

o USGS

o seo

All Databases

APPENDIX II

Laboratory Analytical Results

December 2011, March 2012, and June 2013

SRO 103 State SWD (11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, NM GPS: N 32 02.232 W 104 06.944

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.

Laboratory Analytical Results Summary COG, SRO 103 State SWD

		Sample	SP1 @ 1'	SP1 @ 4'	SP1 @ 7'	SP1 @ 9'	SP1 @ 12'	SP1 @ 14'	SP1 @ 16'
Analyte	Method	Date	12/14/11	12/14/11	12/14/11	12/14/11	12/14/11	3/26/12	3/26/12
		1	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B	ı	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B	1	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B	1	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		9600	8600	3120	1060	688	464	272
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M	1	<10.0	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'
Analyte	Method	Date	12/14/11	12/14/11	12/14/11
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B	T	<0.150	n/a	n/a
Chloride	SM4500CI-B		10500	1180	176
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP3@1'	SP3 @ 4'	SP3 @ 6'
Analyte	Method	Date	12/14/11	12/14/11	12/15/11
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Chloride	SM4500CI-B		8930	928	144
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP4:@:1*	SP4@3	SP4 @ 5'
Analyte	Method	Date	12/15/11	12/15/11	12/15/11
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Chloride	SM4500CI-B		240	160	224
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	'SP5@1'	SP5 @ 3'	SP5 @ 5'	SP5@6'	SP5 @ 7'
Analyte	Method	Date	12/15/11	12/15/11	12/15/11	3/26/12	3/26/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		448	2040	768	400	144
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP6 @ 1'	SP6 @ 2*	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'
Analyte	Method	Date	12/15/11	12/15/11	3/26/12	3/26/12	3/26/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene _	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		5520	6320	928	288	48
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		222	n/a	n/a	n/a	n/a

		Sample	SP7 @ 1'	SP7@3'	SP7@5'	SP7 @ 7'
Analyte	Method	Date	12/15/11	12/15/11	12/15/11	12/15/11
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Chloride	SM4500CI-B		9200	1880	448	288
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

Laboratory Analytical Results Summary SRO 103 State SWD

		Sample	Sidewall 1
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		368

		Sample	Sidewall 2
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		592

		Sample	Sidewall 3
Analyte	Method	Date	6/5/13
	 		mg/Kg
Chloride	SM4500CI-B		176

		Sample	Sidewall 4
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		240

		Sample	Sidewall 5
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		176

		Sample	Sidewall 6
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		208

		Sample	Sidewall 7
Analyte	Method	Date	6/5/13
		1	mg/Kg
Chloride	SM4500CI-B		352

	:	Sample	Sidewall 8
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		416

		Sample	Sidewall 9
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		256

		Sample	Sidewall 10
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		48

		Sample	Sidewall 11
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		32

		Sample	Sidewall 12
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		512

		Sample	Bottom 1
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		80

		Sample	Bottom 2
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		64

		Sample	Bottom 3
Analyte	Method	Date	6/5/13
			mg/Kg
Chloride	SM4500CI-B		<16.0



December 21, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SRO 103 ST SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/16/11 14:45.

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 www.tceq.texas.gov/field/qa/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (505) 397-0397

Received:

12/16/2011

Reported:

12/21/2011

Project Name:

SRO 103 ST SWD

Project Number: Project Location: NONE GIVEN MALAGA, NM

Sampling Date:

12/14/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 1 FT (H102721-01)

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	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	108	% 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	9600	16.0	12/20/2011	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	225	113	200	0.0573	
Surrogate: 1-Chlorooctane	99.5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	115	% 57.6-15	8						

Sample ID: SP 1 @ 4 FT (H102721-02)

Chloride, SM4500CI-B mg/kg		Analyze	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	12/20/2011	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by client in this property of the cause whatsoever shall be deemed waived unless made in writing and received by client in this property of the contract of the property of the property of the contract of the property of the property of the contract of the property of the property of the contract of the property of the property of the contract of the property of

Celey & Keene



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

Fax To: (505) 397-0397

Received:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/21/2011

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

Analyte

Analyte

MALAGA, NM

Sample ID: SP 1 @ 7 FT (H102721-03)

Ch	larida	CMAEOOC	I_D
CII	ioi iue,	SM4500C	1-6

Result

3120

Analyzed By: AP

Reporting Limit 16.0

Reporting Limit

Analyzed 12/20/2011

Analyzed

Method Blank ND

BS % Recovery

108

True Value QC 400

True Value QC

RPD Oualifier

Sample ID: SP 1 @ 9 FT (H102721-04)

Chloride, SM4500CI-B

Analyzed By: AP

BS

432

% Recovery

0.00

Qualifier

Chloride

Chlor

Chloride

1060

Result

16.0 12/20/2011 Method Blank ND

432

108 400 RPD

0.00

Oualifier

Sample ID: SP 1 @ 12 FT (H102721-05)

Chloride, SM4500CI-B

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	
oride	688	16.0	12/20/2011	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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

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

Page 3 of 16



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

(505) 397-0397

Fax To:

Received:

12/16/2011

Reported: Project Name: 12/21/2011

Project Number:

SRO 103 ST SWD NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

12/14/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 2 @ 1 FT (H102721-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS		·· .			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	107 %	% 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	Qualifie
Chloride	10500	16.0	12/20/2011	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	Qualifie
GRO C6-C10	<10.0	10.0	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	225	113	200	0.0573	
Surrogate: 1-Chlorooctane	101 %	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	1149	6 57.6-15	8						

Sample ID: SP 2 @ 3 FT (H102721-07)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	12/20/2011	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



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

Fax To:

(505) 397-0397

Received:

12/16/2011

Reported:

12/21/2011

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

12/14/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 2 @ 5 FT (H102721-08)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/20/2011	ND	432	108	400	0.00	

Sample ID: SP 3 @ 1 FT (H102721-09)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	< 0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	

110	% 64.4-13	4						
mg/kg		Analyzed By: AP						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
8930	16.0	12/20/2011	ND	432	108	400	0.00	
mg/kg		Analyze	Analyzed By: MS		·			
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/19/2011	ND	217	109	200	0.138	
<10.0	10.0	12/19/2011	ND	225	113	200	0.0573	
	Result 8930 mg Result <10.0	mg/kg Result Reporting Limit 8930 16.0 mg/kg Result Reporting Limit <10.0 10.0	mg/kg Analyzed Result Reporting Limit Analyzed 8930 16.0 12/20/2011 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank 8930 16.0 12/20/2011 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0 12/19/2011 ND	mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS 8930 16.0 12/20/2011 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery 8930 16.0 12/20/2011 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg / kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 8930 16.0 12/20/2011 ND 432 108 400 Result Reporting Limit Analyzed BS % Recovery True Value QC <10.0	mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 8930 16.0 12/20/2011 ND 432 108 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane 99.5 % 55.5-154
Surrogate: 1-Chlorooctadecane 111 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene



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

Fax To:

(505) 397-0397

Received:

12/16/2011

Sampling Date:

12/14/2011

Reported:

12/21/2011

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MALAGA, NM

Sample ID: SP 3 @ 4 FT (H102721-10)

oloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	12/20/2011	ND	432	108	400	0.00	
Sample ID: SP 3 @ 6 FT (H102721-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/20/2011	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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

Colog & Keene



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

Fax To:

(505) 397-0397

Received: Reported: 12/16/2011

12/21/2011

SRO 103 ST SWD

Project Name: Project Number:

NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

12/15/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 4 @ 1 FT (H102721-12)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (P1L	108	% 64.4-13	4					· ···	
Chladida CM4F00Cl B		//		.d B 1004					

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/20/2011	ND	416	104	400	3.77	
TPH 8015M mg		/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	<10.0	10.0	12/19/2011	'ND	225	113	200	0.0573	

Surrogate: 1-Chlorooctane

99.9 %

55.5-154

Surrogate: 1-Chlorooctadecane

113%

57.6-158

Sample ID: SP 4 @ 3 FT (H102721-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/20/2011	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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

Celey & Keene



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

Fax To:

(505) 397-0397

Analyzed By: HM

Received:

12/16/2011

Reported:

Chloride, SM4500Cl-R

12/21/2011

Project Name:

SRO 103 ST SWD

Project Number:

NONE GIVEN

ma/ka

Project Location:

MALAGA, NM

Sampling Date:

12/15/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ 5 FT (H102721-14)

Chloride, SM45UUCI-B	mg,	/ kg	Anaiyze	а ву: нм					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/20/2011	ND	416	104	400	3.77	
Sample ID: SP 5 @ 1 FT (H1027	721-15)								
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	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	109	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/20/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	<10.0	10.0	12/19/2011	ND	225	113	200	0.0573	
Surrogate: 1-Chlorooctane	87.5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	91.7	% 57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine



BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To:

(505) 397-0397

Received: Reported: 12/16/2011

12/21/2011

Project Name: Project Number: SRO 103 ST SWD

Project Location:

NONE GIVEN

MALAGA, NM

Sampling Date:

12/15/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 5 @ 3 FT (H102721-16)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: HM

Analyte

Analyte

Result 2040 Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 12/20/2011 Method Blank ND

BS 416 % Recovery

104

True Value QC 400

400

RPD

Qualifier

Sample ID: SP 5 @ 5 FT (H102721-17)

Chloride, SM4500CI-B

Result

768

Analyzed By: HM

Analyzed

12/20/2011

Method Blank ND

BS 416

% Recovery True Value QC 104

RPD 3.77

3.77

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Celeg D. Keene

Page 9 of 16



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To:

(505) 397-0397

Received:

12/16/2011

12/21/2011

Reported: Project Name:

SRO 103 ST SWD

Project Number:

NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

12/14/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 6 @ 1 FT (H102721-18)

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	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	< 0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	112 5	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	12/20/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/19/2011	ND	217	109	200	0.138	
DRO >C10-C28	222	10.0	12/19/2011	ND	225	113	200	0.0573	
Surrogate: 1-Chlorooctane	98.9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	115 9	% 57.6-15	8						

Sample ID: SP 6 @ 2 FT (H102721-19)

Chłoride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	12/20/2011	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine



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

Fax To:

(505) 397-0397

Received: Reported:

12/16/2011

12/21/2011

Project Name:

SRO 103 ST SWD

Project Number:

NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

12/15/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 7 @ 1 FT (H102721-20)

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	12/19/2011	ND	2.06	103	2.00	0.480	
Toluene*	<0.050	0.050	12/19/2011	ND	1.98	99.0	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/19/2011	ND	2.25	112	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/19/2011	ND	6.48	108	6.00	1.15	
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	12/20/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/20/2011	ND	217	109	200	0.138	
DRO >C10-C28	<10.0	10.0	12/20/2011	ND	225	113	200	0.0573	
Surrogate: 1-Chlorooctane	94.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108 9	% 57.6-15	8						

Sample ID: SP 7 @ 3 FT (H102721-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	12/20/2011	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. The performance of the samples identified above.

Celey D. Keine



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

Fax To: (505) 397-0397

Received: Reported:

Chloride

12/16/2011

12/21/2011

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

Project Location:

MALAGA, NM

288

16.0

Sampling Date:

416

104

400

3.77

Sampling Type:

oe: Soil

Sampling Condition:

Cool & Intact

12/15/2011

Sample Received By:

Jodi Henson

Sample ID: SP 7 @ 5 FT (H102721-22)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/20/2011	ND	416	104	400	3.77	
Sample ID: SP 7 @ 7 FT (H102721-23)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

12/20/2011

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM, 8824

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 ne: BBC International, Inc.

	BBC International, Inc.			X	BIL	LL TO	re make					ANAL	YSIS	RE	QUES	ST		
	r: Cliff Brunson). #:													
Address: P.O.	Box 805			Cor	mpaný:													
City: Hobbs	State: NM	Zip: 8	8241	Attı	n:													
Phone #: 575-3	397-6388 Fax # : 575	-397-03	397	Add	dress:		-											
Project#:	Project Owner	<u>: Cal</u>	icho	City	y:													
Project Name:	SRC 103 St 5100			Sta	te:	Zip:			5								1	
Project Location				Pho	one #:				13									
Sampler Name:	JERDAN WECDEN	4		Fax				Į	jŪ,									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SILUGE		ACID/BASE: R	DATE	TIME	× 01-	X TPH 6015.69	X BIEN								
2	SPICE GPT	c)	V V	1	K,	1;	1121	X										
3	SPICE 7 Pt	9	V.	•	X	11	1199	Х										
	SPIC 9Ft	3 :	χ	:	_ (11	1 ₹ °2 L .	_χ										
	5P16 12 Pt	3 1	:			11	149	Δ_{-}										
<u> </u>	5826124 5826324	<u>5</u> :	1 1 2 1		<u> </u>	11	7.03	X	×	X			ļ				_	
		9 !.	<u> </u>		- 	!	720	<u>X</u> .										
69	58 26 5 Ft	9 :			_		241	X.			l		l					
9	SP 3 & 1-Pt 5P 3 & 4.FH	.5) i	$\frac{\lambda}{\lambda}$		싢	// /:	307 342	χ	×	Y							l	
PLEASE NOTE: Liability at	nd Damages. Cardinal's liability and client's exclusive remedy for	any claim ensi	ng whather bases in contra	ot or tort	t, shall be limited	to the emount paid	by the chemito	the		<u> </u>			<u> </u>	L	L	1		 -
service. In no event shall C	ng those for negligence and any other cause whatsoever shall be ardinal be fiable for incidental or consequental damages, including	a waneut krote	ation, business internations	s, loss of	iuse, or loss of p	iofits încured by ck	em, us eubskiis	stes,	Die									
Relinquished B	pg out of or related to the conformance of services hereunder by: Date:		ved By:	1			Phone Re	sult:	□ Ye	s 🖸	No No		Phone	#:				
K_ /:	calante to the 45	= /][Mi N	Le 1	1120-1	1. I	Fax Resu REMARK	S:				Add'l	1 dx #:					
Relinquished B	y: Date:	Receiv	الراكات ved By:	- 10,0717				61	V! A	LA	دت							
	Time:		•															
	: (Circle One) - Bus - Other:	42	Sample Cond Cool Intact Yes Y		CHECK	(ED BY:												
L		1 -	I NO I I	4U	3	<u>, 1</u>									 '			

#26

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

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	BBC International, Inc.				BI	LL 70	75.				ANA	LYSI	SRE	QUES	ST		
Project Manage	r: Cliff Brunson			P.0													
Address: P.O.	Box 805			Cor	mpany:				Ī							1	
City: Hobbs	State: NM	Zip:	88241	Attr	n:		·····										
Phone #: 575-		-397-0		Add	dress:	·					·						
Project #:	Project Owne SRO 103 St St m: Malagou, NM JORDAN WOODE	ri Co	acho	City	y:										Ì		l
Project Name:	<u> </u>	<u>(1)</u>	<u>)</u>	Sta	te:	Zip:			13								
Project Location	11 Malagor, NM			Pho	one #:				N.								
Sampler Name:	_JORDAN WOODE	in		Fax				4	1								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		and the state of t	ACID/BASE: ASION BASE OTHER: ASION BASE	SAMPL DATE	TIME	10	TTH 801	BIRK							
31	5P366+	9	x		7	12-15-il		X.	<u></u>							 	
17	SP 40 1H	9 1	<u> </u>	<u> </u>		- 1/	1000	12/2	X							 	
<u> </u>	58 46 3 FT 58 46 5 F F	1-1-1-1	X +		- X -	4	1000	<u> </u>			—		ļ			 	
12,	5P 4 6 5F+ 5P 5 6 1 ++	9 1	1-'XI		-		1119	×	\	1.7						 	
1-2	ST 50 3 H	F) !	$\frac{\lambda}{V}$		X	//	1134	/ /×	<u>-X</u>	¥						 	
14	SP 56 5++	(4)			X		1/210	<i></i>								 	
13	splee ift	1 4 1		1		 li	120	X	X	y							
P1 00	58 6 6 2 Pt 587 6 18+	9 1	K		X,	4	148 712	X	X	V							
analyses. All claims includi service, In no event shall C	na Damages. Carcinots habitity and client's exclusive remody for those for negligence and any other cause whatoever shall be eartifulate be light for indepented or consequented damages, including a out of or related to the pufformence of possible terremoder by the consequents. Date: Date: Timpol	deamed war g without am Pardinal, req	ved unless made in whilng a itation, business interruption:	ns receiv s, ross of	ed by Cardinal v use, or loss of p	vitnin 30 days a't rolits incurred by	er completion of a client, its subsidi	ne applica aries, se Sult: It:	□ Ye		No Add	'l Phone 'l Fax #:	#:			- 00 2000000	
	: (Circle One) - Bus - Other:	Ho	Sample Condi Cool Intact II Yes II Y	1	CHECK	(ED BY:											

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

产26

2 of 3

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	BBC International	, Inc.							ا انوپر انوپور	C 4 13	BI	LL TO)		ì				ANA	LYSIS	S RE	QUE	ST			
	r: Cliff Brunson								P.C). # <i>:</i>				_												
Address: P.O.	Box 805								Co	mpa	ny:															
City: Hobbs		State: NM	Zip	: 8	824	1			Att	n:																
Phone #: 575-3	397-6388	Fax #: 575-	397	7-03	97				Ad	dres	s:															
Project #:		Project Owner	:C	ou	こし	ت ا			Cit	y:																
Project Name:	5RC 103 5	+ 5607	>_						Sta	ite:		Zip:										İ				
Project Location	n: Malago	INM						1	Ph	one	#:	2								1						
Sampler Name:	TURDAN'	WOODF	A	/					Fax	(#:																
FOR LAB USE ONLY	,					MA	TRIX	(PRE	SERV	SAME	LII	1G												
Lab I.D.	Sample I.I <u> 5アラ@ 341</u> 5アラ@ 541 5アラ@ ラ <i>戸</i> 1).	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL		SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:			TIME	ノン											
7.1	5P7@341		1	(<u>x</u> -2					N	17-15		232	X					<u> </u>		ļ				
07.	5 <u>P7@ 54</u>	·	6								X.	11	_	250	()			-	<u> </u>				ļ			
23	SPTE OFF		- (<u>i</u> .		<u> 'X</u>	-				X	!.	_	352_	X	ļ		<u> </u>								
			_	-	-		ļ				-	-	-		<u> </u>		_		-	-						***************************************
				Н			-			- 1	+	1	-		.		-	ļ		-						
			-		+	+	-			\dashv	-	·	-				_	-				 	· ·	,		
	**														 			1	1						·• ···········	
					1		-						-	#01 h-05h0000000000000000000000000000000000		l		- I							.,,	
				Ш																						
analyses. All claims including service. In no event shall C	nd Damages. Cardinal's liability and clien rig those for negligence and any other ca ardinal be liable for incidental or consequ- rig out of or related to the performance of	use whatsoever shall be d lental damages, including	eemed withou	i waive t firnie	d unless tion, bus	made in iness in	n wnti terrupi	ng and tions, k	recei oss of	ived by fuse, c	Cercinal r loss of	within 30 days prefits incumed	after by ci	completion of L ent, its subsidia	he applica iries,	ble	-									
Relinguished B	y: idon Woo	Date:	Ro	CAIN	ad B	ν.		- 4			LØ.			Phone Re Fax Resu REMARK	sult: lt: S:	M.		No No	Add'l	Phone Fax #:	#:					
•	: (Circle One) - Bus - Other:		<u></u>	10	Si C [] سري	mple ool 1. Yes	Co Inta	nditi ict -Yes	on	ŧ		KED BY:										•				

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

世26

30F 3



March 29, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SRO 103 ST SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/27/12 9:06.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(505) 397-0397

Received: Reported: 03/27/2012

03/29/2012

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

Project Location:

MALAGA, NM

Sampling Date:

Sampling Type:

03/26/2012

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 1 @ 14 FT (H200727-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/27/2012	ND	416	104	400	0.00	
Sample ID: SP 1 @ 16 FT	(H200727-02))							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/27/2012	ND	416	104	400	0.00	
Sample ID: SP 5 @ 6 FT (H200727-03)								
Chloride, SM4500Cl-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	03/27/2012	ND	416	. 104	400	0.00	
Sample ID: SP 5 @ 7 FT (H200727-04)								
Chloride, SM4500Cl-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	03/27/2012	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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

Celey & Keine



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

Fax To: (505) 397-0397

Received:

03/27/2012

Sampling Date:

03/26/2012

Reported:

Soil

03/29/2012

Sampling Type:

Cool & Intact

Project Name: Project Number: SRO 103 ST SWD NONE GIVEN

mg/kg

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

MALAGA, NM

Sample ID: SP 6 @ 3 FT (H200727-05)

Chloride, SM4500CI-B

Chloride

Chloride

Reporting Limit

Reporting Limit

16.0

Analyzed By: AP

Analyte

Analyte

Result 928

16.0

03/27/2012

Analyzed

Analyzed

03/27/2012

Method Blank ND

Method Blank

ND

416

BS

% Recovery True Value QC

400

True Value QC

400

104

% Recovery

104

RPD

Qualifier

Sample ID: SP 6 @ 4 FT (H200727-06)

Chloride, SM4500CI-B

Result

288

Analyzed By: AP

BS

416

RPD

0.00

RPD

0.00

0.00

Oualifier

Qualifier

Sample ID: SP 6 @ 5 FT (H200727-07)

Chloride, SM4500Cl-B

Analyzed By: AP

	Analyte	Result	Reporting Limit	Anaiyzed	Method
Chloride		48.0	16.0	03/27/2012	NE

Method Blank	BS	% Recovery	True Value QC
ND	416	104	400

Cardinal Laboratories

*=Accredited Analyte

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

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

Page 3 of 5



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	0															 							
Company Name	BBC International, Inc.							: -		B	IL	L TO					ANA	LYSIS	RE	QUE:	ST			
Project Manager	: Cliff Brunson							P.C). #:		, .													
Address: P.O.	Box 805							Со	mpa	ny:														
city: Hobbs	State: NM	Zip	ı: E	824	41			Att	n:															
Phone #: 575-3	397-6388							Ad	dres	s:														
Project #:	Project Owne	<u>r: </u>	1	<u> 26</u>	erry			Cit	y:							}								
Project Name:	<u> </u>	>_						Sta	te:			Zip:												
Project Location								Ph	one	#:														
Sampler Name:	Toodso wies	27	5	W	,				ĸ#:					1		1								
FOR LAB USE ONLY					M	ATR	IX		PRE	SER	⊻.	SAMPLI	NG	1	l								.	
Lab I.D. H200127	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	отнек:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	· Col										ı
	SP 162 1615 +	1	Ċ		<u> </u>					λL		3-76-1		X		<u> </u>	 							<u>.</u>
2	5P 100 10 PT	19	١,		ذِلِيا	+	1_			1	_	- (/	553	X.			 						<u> </u>	
	SD5@ioft	9	11		Щ.	灴	<u> </u>			$\downarrow\downarrow$	_		1129	X		ļ	 							
4	<u> </u>	9	4		 	4	-			\perp	-		11-15	<i>Y</i>		ļ	 							
5	5000 251	19	$\frac{1}{2}$			計				XI XI		-77	194	K	ļ		 							
	5766 974 3766564	1	1-			싢	 -		$\left - \right $	$\frac{\Delta 1}{ c }$	-	17	1342	A.			 	ļ						
	-3F & W 011		+		H.	4	†			4	-	4	1914	1			 	 						
		1-	-		一十	+	-			-i				l			 	1						
	THE RESERVE OF THE PROPERTY OF	-					-			1.				1 -			 							
PLEASE NOTE: Liablez au	to Damages. Cordinal's liability and client's exclusive remedy for	وام نام	Ins arre	Oct with	ether ha	sed in	contra t	or to r	chail	he lim	len i	o the amount gai	d by the client to	rithe			 							

PLEASE NOTE: Liability and Damages, Cardina's liability and client's exclusive remay for any fatim arising writter based in contract or fort, shall be limited to the arrowint paint by feet client for the unalyses. All craims including those for negligence and any other cause whatsoever shall be deemed vanied unless made in whiting and received by Cardinal within 30 days after completion of this approach is reviewed. In no event shall Cardinal exclusion inclined any occupant of the property of the contract of the participant of the particip

atilitates of successors arising out of or related to the performance of services hereunder by C-	stonal regardless of whether sport claim is based obout any of the active stated re-	asons of officiency.			
Relinquished By: / Date://	Received By:	Phone Result:	☐ Yes	□ No	Add'l Phone #:
1 / 1 / 2 / 1 / 24/24/2	11/11/11	Fax Result:	☐ Yes	□ No	Add'I Fax #:
C. Julian About	1/2-1/1	REMARKS:	لا ور استان	al r	400
7/27/12 Tigge: 0/2	Received By:		CHE.	rt fla	
Delivered By: (Circle One)	Sample Condition CHECKED BY: Cool Intact (Initials)				
Sampler - UPS - Bus - Other:	No No			··········	

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



June 06, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SRO 103 ST SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/05/13 17:05.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 397-0397

Received: Reported: 06/05/2013

06/06/2013

Project Name:

SRO 103 ST SWD

Project Number: Project Location: NONE GIVEN

ORLA

Sampling Date:

06/05/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: SW 1 (H301315-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

Analyte

Result 368

Reporting Limit 16.0

Reporting Limit

Analyzed 06/06/2013 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD

3.77

Qualifier

Sample ID: SW 2 (H301315-02)

Chloride, SM4500CI-B

Analyte

mg/kg

Result

592

Analyzed By: DW

Analyzed

Method Blank

% Recovery

True Value QC

Qualifier

Chloride

Chloride

16.0 06/06/2013 ND

BŞ 416

104

400

RPD

Sample ID: SW 3 (H301315-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

Analyzed

Method Blank

BS

% Recovery

True Value QC

ŔPD

3.77

Chloride

Chloride

Result 176

Reporting Limit 16.0

06/06/2013

ND

416

104

400

3.77

Qualifier

Sample ID: SW 4 (H301315-04)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyte

Result 240

Reporting Limit 16.0

Analyzed 06/06/2013 Method Blank ND

BS 432

% Recovery 108

True Value QC 400

RPD 3.77 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Celey & Kune

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 8



BBC International, Inc.

Cliff Brunson

P.O. Box 805

Hobbs NM, 88241

Fax To:

(575) 397-0397

Analyzed By: DW

Received:

06/05/2013

Sampling Date:

06/05/2013

Reported:

Chloride, SM4500CI-B

06/06/2013

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

mg/kg

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

ORLA

Sample ID: SW 5 (H301315-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SW 6 (H30131	-	/kg	Analysis	ed By: DW					
Chloride, SM4500Cl-B				-					0. 115
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SW 7 (H30131	L5-07)								
Chloride, SM4500Cl-B	-	/kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SW 8 (H30131	L5-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SW 9 (H30131	L 5-0 9)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/06/2013	ND	432	108	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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

Celey & Kune



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

Fax To: (575) 397-0397

Received:

06/05/2013

Sampling Date:

06/05/2013

Reported:

Sampling Type:

Soil

Project Name:

06/06/2013 SRO 103 ST SWD

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

ORLA

Sample ID: SW 10 (H301315-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SW 11 (H301315-1	.1)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SW 12 (H301315-1	.2)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: BS 1 (H301315-13))								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: BS 2 (H301315-14))								
Chloride, SM4500Cl-8	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/06/2013	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptons, loss of use, or loss of profits incurred by client, its subclainaries, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



BBC International, Inc.

Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To:

(575) 397-0397

Received:

06/05/2013

Sampling Date:

06/05/2013

Reported:

06/06/2013

NONE GIVEN

Sampling Type:

Soil

Project Name:

SRO 103 ST SWD

Sampling Condition:

** (See Notes)

Project Number: Project Location:

ORLA

Sample Received By:

Jodi Henson

Sample ID: BS 3 (H301315-15)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2013	ND	432	108	400	3.77	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Clert (ran all cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of lose, or loss of profits incurred by client, businessing the pro

Celeg & Kura



NĐ

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-2476	6																	
Company Name	BBC International, Inc.					B	144 70					AN	ALYSI	S RE	QUE	ST			
Project Manage	r: Cliff Brunson				P.O.	#:]					
Address: P.O.	Box 805				Com	pany:		/_		.]									
city: Hobbs	State: NM	Zip:	88	8241	Attn	:					}								
Phone #: 575-	397-6388 Fax #: 575-	397	-03	97	Add	ress:	_N_	/											
Project #:	Project Owner	:Ca	20	Ŝ	City:		J 2/2	/											
Project Name:	GRO 103 St SWA				State	-	р: 												
Project Location	n: Or la				Pho	10 #C	/				ļ								
Sampler Name:	Gary RAM				Fax	#:				1	l	1						İ	
FOR LAB USE ONLY)			MATRIX	P	RESERY	SAMPLI	NG			1								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	ICE / COOL	DATE	TIME	-)")	}									
	562	6	1				6-5-13	10:35	X										
	Sw2	6	2			18	6-5-17	10:40	X.			_	_						
3	Sw 3	6	2			-X-	6-5-13	10:52	_X				_	<u> </u>					
4	5w4	0	2			$- \lambda $	9-5-13	10:07	4			_	_	-	l				
3	5w 5	9	4	<u> </u>	-	-{}}-	6.5.13	11:30	-ŏ-				_	 -					
9	<u> Σω </u>	9	7	$++\bigcirc+$		- X -	1-5.17	11.70	÷	<u> </u> -			_	 					
	Sω 1 Sω 8	9	力	++		-\ \	1 5-17	11.40	-&-		-			 -					
- 8	<u>Sw8</u> Su9	片	뒭	$+ \mid \rangle \mid + \mid$	╁┤	议	1-5-18	12,00	文				-						
10	Sw10	6	1	<u> </u>		K	6-5-13	1:10	文								*· = **·		
PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and client's exclusive remedy for a	ny claim	arisin	g whether based in contract	or tort, s	hall be limite	d to the amount bai	d by the client for	the										

PLEASE NOTE: Liability and Damages. Cardina's fability and client's exclusive remedy for any dairs attaing whether based in contract or test, shall be firmled to the amount 30'd by the client for the analyses, At edutas inclusing those for negligence and any other cause wantsoever shall be deemed waived unders made in witting and reserved by Cardinal within 30 days after combinion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, ousiness interruptions, loss of use, or loss of profits incurred by client, 43 subskilaries,

	gridates of successors arising out of or reisser to the performance of	or services recreations by Caroman,	. retails 33 of the given such countries on sed oboin any of the source stated	Coulding of Directings.		
	Relinquished By:	Date: - , J Rec	ceived By:	Phone Result: []	IYes 🗓 No [A	Add'I Phone #:
		6-3-1-1	1 H	Fax Result:	Yes 🗆 No 🛭 A	Add'l Fax #:
		屋のムー	MY MINARA	REMARKS:		
_		15.00 14	Luc Gurun -			1
_	Relinquished By:	Date: Rec	ceived By:		^ ~	1 } { {
	·				1111	1
		Time:				, 1 * •
				.)		
	Delivered By: (Circle One)		Sample Condition CHECHED BY:			
	• •		Cool Intact (Initials)	1		
	Sampler - UPS - Bus - Other:	22	1 □ Yes. ☑ Yes !			
		00	O DNO NO I O	1		
			71			

† 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.	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 Fax #: 575-397-0397	Address!	
Project #: Project Owner: CDG	City:	
Project Name: SRO 103 St SWD	State: Zip:	
Project Location: Of AQ	Phone #:	
Sampler Name: Gary RA	Fax #: (
FOR LAB USE ONLY MATRIX	PRESERV SAMPLING	
Tap I.D. Sample I.D. (G)RAB OR (C)OMP (G)RAB OR (C)OMP (SOULD WASTEWATER WASTEWATER (SOULD OIL OIL OIL OIL OIL OIL OIL OIL OIL OIL	OTHER: ACIDIBASE: ICE / COOL OTHER:	
\cdot II $SwII$ 62 X	1 1 1 1 1 1 1 1 1 5 1 5 1 1 1 2 1 5 1 5	
12 SW 2 6 2 X	X 6-5-17 1:36 X	
13 BS 1 6 2 X	X 6-5-13 1:45 A X 6-5-13 2:00 X	
<u>4</u> 85 2 <u>6 7 X</u>		
15 03 3 6 2 X	X 6-5-13 2:10 X	
		
	 - - - - - 	
PLEASE NOTE: Liability and Damages, Cardinal's liability and clerif's exclusive remedy for any claim arising whether based in contr	ct or tort, shall be limited to the amount said by the client for the	

PLEASE NOTE: Liability and Damages. Cardural's liability and ctent's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount caid by the client for the analysis. All claims including those for negigence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardural within 30 days after combelsion of the applicable service, in no event shall Cardinal be liable for incidental or consequential damages, including without limitation, usiness interruptions, loss of use, or loss of profits incurred by claim, its substitatines, affiliates or successors arising out of or related to the performance of services networks by Cardinal, treandless of whether such dain is based upon any of the apove stated reasons or otherwise.

Time:	=	elinquished By elinquished By:	Times: 05	Received By:	Hen	DON	Phone Result: Fax Result: REMARKS:	☐ Yes ☐ Yes	□ No □ No	Add' Phone #: Add' Fax #:	
Delivered By: (Circle One) Sample Condition CHECKED BY: Cool Intact Yes Pres Who No No	l	•	L	Cool In	Yes	71 . J. 74			4 		

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

#54

APPENDIX III

C-141

November 2011 and June 2013

SRO 103 State SWD (11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, NM GPS: N 32 02.232 W 104 06.944

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.

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

Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Name of Company COG Operating LLC Contact Pat Ellis Address 550 W. Texas, Suite 100, Midland, TX 79701 Telephone No. 432-230-0077 Facility Type SWD Facility Facility Name SRO 103 State SWD Mineral Owner Lease No. (API# 30-015-24462) Surface Owner State LOCATION OF RELEASE Unit Letter Section Feet from the North/South Line Feet from the East/West Line Township Range County 28E 17 **26S** M Eddy Latitude 32 02.232 Longitude 104 06.944

NATURE OF RELEASE Type of Release Oil, Produced water Volume of Release . 2 bbls oil. Volume Recovered 2 bbls oil. 1000 bbls produced water 1000 bbls produced water Source of Release Water tanks Date and Hour of Occurrence Date and Hour of Discovery 11/04/2011 11/04/2011 7:00 a.m. If YES, To Whom? Was Immediate Notice Given? Mike Bratcher-OCD Josh Russo By Whom? Date and Hour 11/07/2011 9:16 a.m. Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes 🛛 No RECEIVE If a Watercourse was Impacted, Describe Fully.* AUG 13 2013 NMOCD ARTESIA Describe Cause of Problem and Remedial Action Taken.* SWD tanks ran over due to the pump being down. The electrician reported a bad sensor on the water tanks and a faulty relay panel. All problems have been corrected. Describe Area Affected and Cleanup Action Taken.* Initially 1000 bbls of produced water and 2 bbls of oil were released from the SWD tanks at the SRO 103 State SWD. We were able to recover 2 bbls of oil and 910 bbls of produced water via vacuum trucks. Most of the release was contained inside the berm walls of the facility. This facility is lined with a 40 mil liner. Some of the release spilled over the lined berm walls and streamed into the pasture. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 10/17/2012. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Robert Grubbs Jr. Printed Name: Title: Sr. Environmental Coordinator Approval Date: **Expiration Date:** E-mail Address: rgrubbs@concho.com Conditions of Approval: Attached [Date: 06-19-2013 Phone: 432-661-6601

^{*} Attach Additional Sheets If Necessary

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

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'	ГOR		🛛 Init	ial Report		Final Report
Name of Co		COG OP				Contact	P	at Ellis				
Address				dland, TX 7970		Telephone l	No. 432-	230-00	77			
Facility Nar	ne	SRO 10	3 State S	WD		Facility Typ	e SW	D Facil	ity			
Surface Ow	ner State			Mineral O	wner				Lease	No. (API#)	30-01	5-24462
				TOCA	TIO	N OF RE	FACE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	Fact/V	Vest Line	County		
M	17	268	28E	I cet non the	140.111	South Line	7 CCt Bolli (Be	2430 1	vest Line		Eddy	
				Latitude 32 0	2.232	Longitu	ıde 104 06.944	· · · · · · · · · · · · · · · · · · ·		, <u>, , , , , , , , , , , , , , , , , , </u>		
				NAT	URE	OF REL	EASE					
Type of Rele	ase Oil, P	roduced water		11112		Volume of		Oil,	Volume	Recovered	2bbls	Oil.
							bblis Produced w			910bbls Proc	luced v	vater
Source of Re	lease Wat	er tanks				Date and H 11/04/2011	lour of Occurrence	:e		Hour of Dis		
Was Immedia	ate Notice (If YES, To	Whom?					
		×	Yes ∟	No Not Re	quired			Mike E	Bratcher C	MEC	EI	/ED L
By Whom?	Josh Rus						four 11/07/2011					
Was a Water	course Rea		Yes 🗵	No		If YES, Vo	olume Impacting	the Wate	rcourse	AUG	137	2013
If a Watercou	ırse was lm	pacted, Descri	ibe Fully.	ř	•	.1,				AMOCE	AR	TESIA
Describe Cau	se of Probl	em and Remed	díal Actio	n Taken *	<u>-</u>				,			
Describe Card	13C 01 1001	ciii dila recirci	diai Actio	i lakon.								
SWD tanks ra		to the pump b	eing dow	n. The electrician	reporte	d a bad sensor	r on the water tan	ks and a	faulty rela	ay panel. Al	proble	ms have
Describe Are	a Affected	and Cleanup A	Action Tak	ten.*								
Initially 1000	bbls of pro	duced water a	nd 2bbls o	of oil were released	l from t	he SWD tank	s at the SRO 103	State SV	WD and w	re were able t	o recov	er 2bbls of
				trucks. Most of th								
				over the lined bern	walls	and streamed	into the pasture.	BBC w	ill sample	the spill site	area in	the pasture
to delineate a	ny possible	contamination	n from the	release.								
I hereby certi	fy that the i	nformation gi	ven ahove	is true and compl	ete to t	he hest of my	knowledge and u	inderstar	d that nur	MV of tague	OCD r	ules and
				d/or file certain re								
public health	or the envi	ronment. The	acceptance	e of a C-141 repor	rt by th	e NMOCD m	arked as "Final R	eport" d	oes not re	lieve the ope	rator of	liability
				investigate and re								
federal, state,				tance of a C-141 r	eport a	oes not renev	e the operator of	responsi	bility for c	compliance v	nth any	other
reactur, state,	Or rocar lay		141107131				OIL CON	SERV	ATION	DIVISIO)NI	
		/ T	$\overline{}$.				01200111		211101	. D1 V 101 C	<u> </u>	
Signature:		<u> </u>	(<u>. </u>								
Printed Name	: (Josh	Russo			Approved by	District Supervis	or:				······································
Title:		HSE Co	ordinator			Approval Dat	<u>e:</u>	£	Expiration	Date:		<u></u>
E-mail Addre	ss:	jrusso@concl	horesource	es.com_		Conditions of	Approval:			A **	[
										Attached	L	
	14/2011	Pho		32-212-2399			V					
Attach Addit	ional Shee	is II Necessa	ary .									

APPENDIX IV

Correspondence

October 2012

SRO 103 State SWD (11/04/2011)

Unit M, Section 17, Township 26 South, Range 28 East Eddy County, NM GPS: N 32 02.232 W 104 06.944

> Prepared for: COG Operating LLC Midland, Texas

Prepared by: BBC International, Inc.

Kathy Purvis

From:

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

Sent:

Wednesday, October 17, 2012 2:52 PM

To:

Cliff P. Brunson

Cc:

Josh Russo; Ken Swinney; Kathy Purvis; Jennifer Gilkey

Subject:

RE: Concho Operating - SRO 103 State SWD

Reference: COG SRO SWD 103 * 30-015-24462 * M-17-26s-28e * Eddy County, New Mexico

OCD Tracking Number: 2RP-961 * Date of Release: 11/4/11

Cliff,

The proposal for remediation of the above referenced release is approved. It is OCD's understanding that the areas of <u>SP2</u> & SP3 are being referenced in your email request.

Notify OCD 48 hours prior to commencement of remedial activities.

Notify OCD 48 prior to obtaining samples when the analyses are to be presented to OCD.

Confirmation samples from excavation bottoms and sidewalls are to be obtained prior to backfill.

OCD approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notifications, 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 7:52 PM

To: Bratcher, Mike, EMNRD

Cc: Josh Russo; Ken Swinney; Kathy Purvis; Jennifer Gilkey

Subject: Concho Operating - SRO 103 State 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 COG SRO 103 State SWD. As agreed, COG will excavate impacted soil in the area of SP1 to a depth of 5 to 6 feet, in the areas of SP3 and SP3 to a depth of 1 foot, in the areas of SP4 and SP5 it will just be scraped in the near surface, and in the areas of SP6 and SP7 to a depth of 3 feet. The excavations will then be backfilled with clean soil.

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 plan, it would be greatly appreciated.

COG 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

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.
