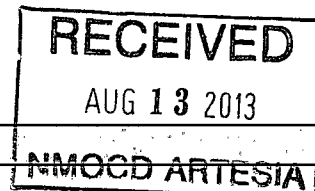


SITE INFORMATION

Report Type: Work Plan Report



General Site Information:			
Site:	SRO 103 State SWD		
Company:	COG Operating LLC		
Section, Township, and Range:	17	26S	28E
Lease Number:	API# 30-015-24462		
County:	Eddy County, NM		
GPS:	N 32 02.232	W 104 06.944	
Surface Owner:	State		
Mineral Owner:			
Directions:	In Malaga, from the intersection of Black River Village Road (CR720) and US Hwy 285, go South 109 miles, turn Right and go West on Whites City Road for 2.9 miles, turn South for 1.8 miles, then go East to location.		

Release Data:	
Date Released:	11/4/2011
Type of Release:	Oil, Produced water
Source of Contamination:	Pump failure at water tanks
Fluid Released:	2 bbls oil, 1000 bbls produced water
Fluids Recovered:	2 bbls oil, 910 bbls produced water

Official Communication:		
Name:	Pat Ellis	Cliff Brunson
Company:	COG Operating LLC	BBC International, Inc.
Address:	550 W. Texas Ave., Ste. 1300	1324 W. Marland
PO Box:		PO Box 805
City, State, Zip Code:	Midland, TX 79701	Hobbs, NM 88241
Phone Number:	(432) 686-3023	(575) 397-6388
Fax:	(432) 684-7137	(575) 397-0397
Email:	pellis@conchoresources.com	cbrunson@bbcinternational.com

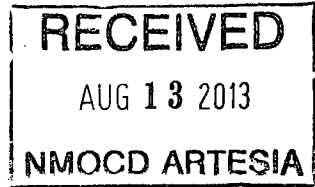
Ranking Criteria:		
Depth to Groundwater:	Ranking Score	Site Data
<50 ft.	20	
50-99 ft.	10	10
>100 ft.	0	

Well Head Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200	20	
Water Source >1,000 ft., Private >200	0	0

Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft. - 1,000 ft.	10	
>1,000 ft.	0	0

Total Ranking Score:	10
-----------------------------	----

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

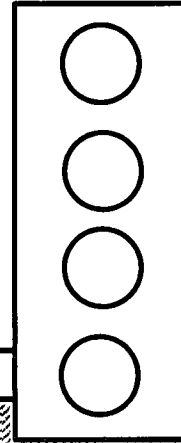
Prepared by:
BBC International, Inc.



COG
SRO 103 State SWD

Lease Pad

Well Head



SP1

SP2

SP3

SP4

SP6

SP5

SP7

504'

Road

Pasture

Road

BBC International, Inc.

COG

SRO 103 State SWD

Date: 09/05/12

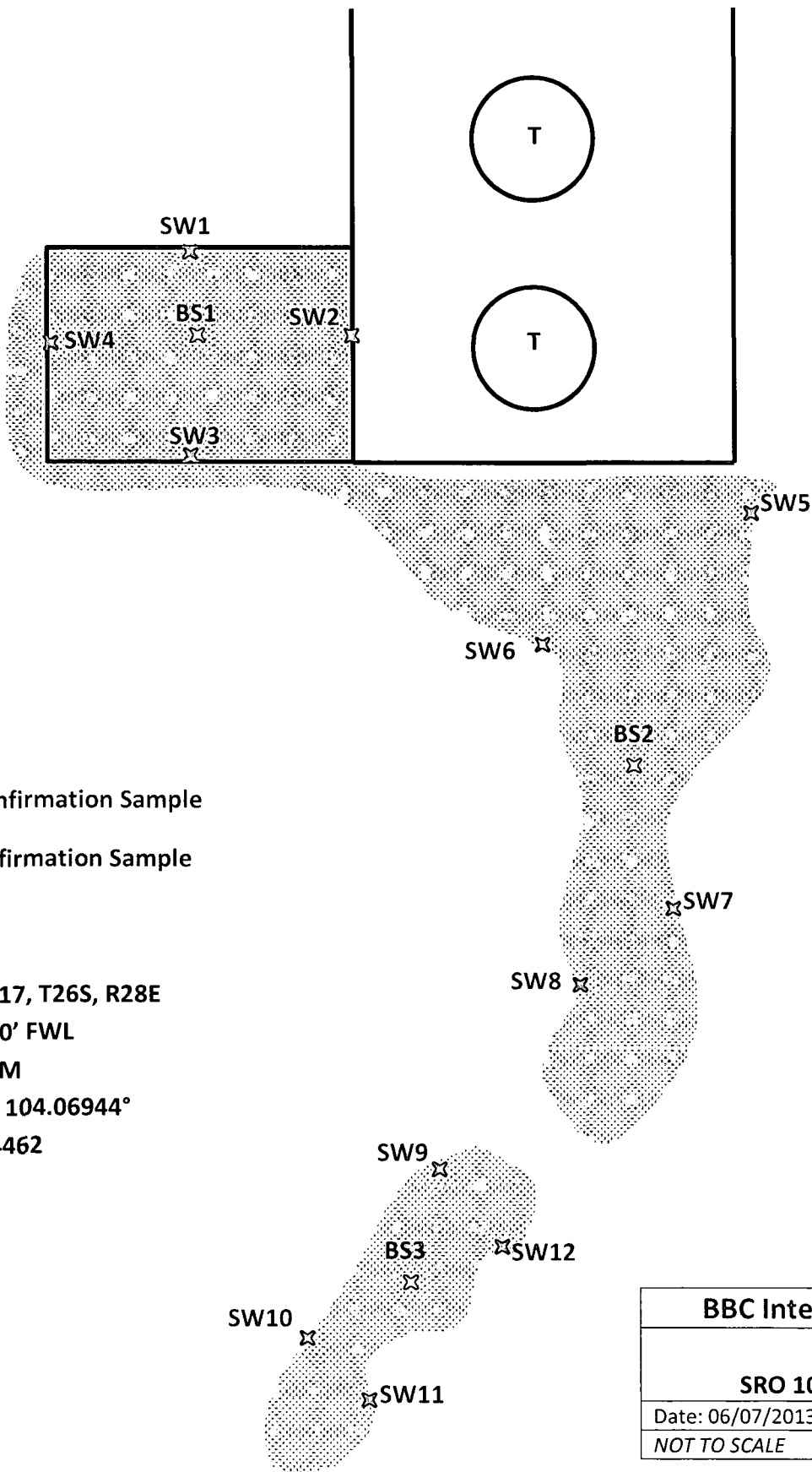
DRWG by: K. Purvis

NOT TO SCALE

File: COG



COG
SRO 103 State SWD



✧ Sidewall Confirmation Sample

✧ Bottom Confirmation Sample

U/L M, Section 17, T26S, R28E
660' FSL and 660' FWL
Eddy County, NM
N 32.02232° W 104.06944°
API # 30-015-34462

BBC International, Inc.

COG

SRO 103 State SWD

Date: 06/07/2013

DRWG by: K. Purvis

NOT TO SCALE

File: COG 2013



Groundwater Plot

COG SRO 103 State SWD

County
Eddy

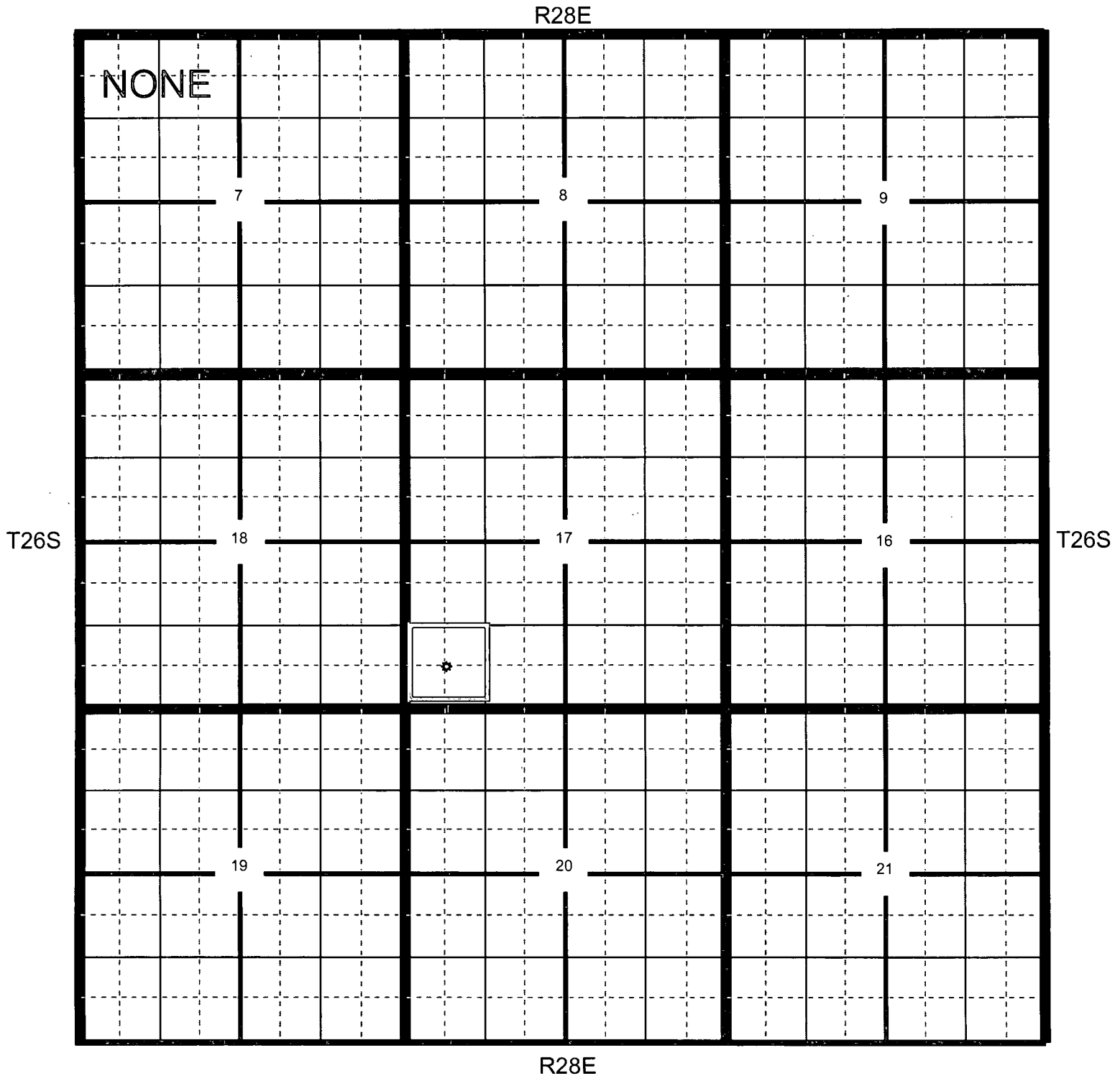
Unit Letter
M

Section
17

Township
T26S

Range
R28E

Trend Map <100'



★ Location

○ 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 NONE Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P

3

4

✱ Location

○ OCD

○ USGS

○ 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
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<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	SM4500Cl-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		<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		<0.150	n/a	n/a
Chloride	SM4500Cl-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	SM4500Cl-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	SM4500Cl-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	SM4500Cl-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	SM4500Cl-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	SM4500Cl-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
			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_accred_certif.html.

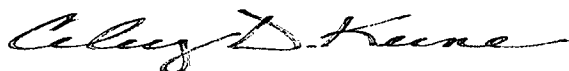
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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: 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 1 @ 1 FT (H102721-01)

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 (PIL) 108 % 64.4-134

Chloride, SM4500Cl-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		Analyzed By: MS					

Surrogate: 1-Chlorooctane 99.5 % 55.5-154

Surrogate: 1-Chlorooctadecane 115 % 57.6-158

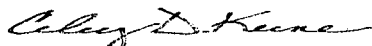
Sample ID: SP 1 @ 4 FT (H102721-02)

Chloride, SM4500Cl-B		mg/kg		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 Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: 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 1 @ 7 FT (H102721-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	12/20/2011	ND	432	108	400	0.00		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	12/20/2011	ND	432	108	400	0.00	

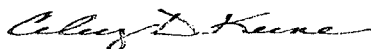
Sample ID: SP 1 @ 12 FT (H102721-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	12/20/2011	ND	432	108	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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 2 @ 1 FT (H102721-06)

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 (PIL) 107 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	12/20/2011	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 55.5-154

Surrogate: 1-Chlorooctadecane 114 % 57.6-158


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

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

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 Cliff Brunson
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 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 2 @ 5 FT (H102721-08)

Chloride, SM4500Cl-B		mg/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)

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 (PIE) 110 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	12/20/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 55.5-154

Surrogate: 1-Chlorooctadecane 111 % 57.6-158

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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)

Chloride, SM4500Cl-B		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		

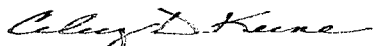
Sample ID: SP 3 @ 6 FT (H102721-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

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Analytical Results For:

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 Received: 12/16/2011
 Reported: 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 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 (PIL) 108 % 64.4-134

Chloride, SM4500Cl-B		mg/kg	Analyzed 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	Analyzed 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

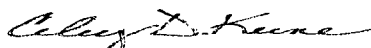
Sample ID: SP 4 @ 3 FT (H102721-13)

Chloride, SM4500Cl-B		mg/kg	Analyzed 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	

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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: 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 4 @ 5 FT (H102721-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
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 (H102721-15)

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 (PIL) 109 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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	

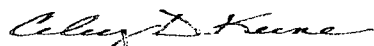
Surrogate: 1-Chlorooctane 87.5 % 55.5-154

Surrogate: 1-Chlorooctadecane 91.7 % 57.6-158

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Analytical Results For:

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: 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 5 @ 3 FT (H102721-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	12/20/2011	ND	416	104	400	3.77		

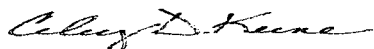
Sample ID: SP 5 @ 5 FT (H102721-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	12/20/2011	ND	416	104	400	3.77	

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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 6 @ 1 FT (H102721-18)

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 (PIL) 112 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 55.5-154

Surrogate: 1-Chlorooctadecane 115 % 57.6-158

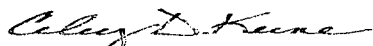
Sample ID: SP 6 @ 2 FT (H102721-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

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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: 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		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 (PIL) 107 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					

Surrogate: 1-Chlorooctane 94.3 % 55.5-154

Surrogate: 1-Chlorooctadecane 108 % 57.6-158

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

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Fax To: (505) 397-0397

Received:	12/16/2011	Sampling Date:	12/15/2011
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 7 @ 5 FT (H102721-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/20/2011	ND	416	104	400	3.77		

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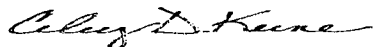
Notes and Definitions

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

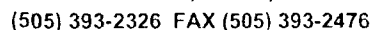
Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





CARDINAL 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: <i>Cencho</i>				City:																																			
Project Name: <i>SRC 103 ST SWD</i>				State: Zip:																																			
Project Location: <i>Malaga, NM</i>				Phone #:																																			
Sampler Name: <i>JORDAN WOODFIN</i>				Fax #:																																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																													
Lab I.D.		Sample I.D.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL														OIL		SLUDGE		OTHER:		ACID/BASE:		ICE/COOL		OTHER:		DATE		TIME	
<i>AID2721</i>																																							
<i>21 SP7 @ 341</i>				<i>1</i>						<i>X</i>																				<i>X</i>						<i>12-15-11</i>		<i>232</i>	
<i>22 SP7 @ 541</i>				<i>1</i>						<i>X</i>																				<i>X</i>						<i>11</i>		<i>250</i>	
<i>23 SP7 @ 741</i>				<i>1</i>						<i>X</i>																				<i>X</i>						<i>11</i>		<i>332</i>	

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Relinquished By: <i>Jordan Woodfin</i>		Date: <i>12/15/11</i>		Received By: <i>Jodi Benson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Time: <i>2:45</i>		Sample Condition		CHECKED BY: (Initials)		REMARKS: <i>EMAIL ALL</i>	
Sampler - UPS - Bus - Other:				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		<i>GH</i>			

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

#26

3 of 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_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/27/2012
 Reported: 03/29/2012
 Project Name: SRO 103 ST SWD
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

 Sampling Date: 03/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

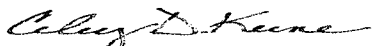
Sample ID: SP 5 @ 7 FT (H200727-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/27/2012
Reported: 03/29/2012
Project Name: SRO 103 ST SWD
Project Number: NONE GIVEN
Project Location: MALAGA, NM

Sampling Date: 03/26/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	03/27/2012	ND	416	104	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/27/2012	ND	416	104	400	0.00	

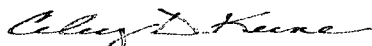
Sample ID: SP 6 @ 5 FT (H200727-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/27/2012	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

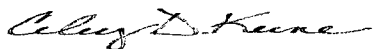
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL 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: COG		City:															
Project Name: OKC 103 SWID				State: Zip:															
Project Location: Malaga NM				Phone #:															
Sampler Name: Teddon Woodfin				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		GRAB OR (COMP.)		# CONTAINERS		MATRIX		PRESERV.		SAMPLING							
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:					
				ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME							
H2007127		SP 10 @ 14 ft		1		1		X		X		3-26-12		925					
2		SP 10 @ 16 ft		1		1		X		X		11		953					
3		SP 5 @ 10 ft		1		1		X		X		11		1129					
4		SP 5 @ 7 ft		1		1		X		X		11		1115					
5		SP 10 @ 2 ft		1		1		X		X		11		104					
6		SP 10 @ 4 ft		1		1		X		X		11		114					
7		SP 10 @ 5 ft		1		1		X		X		11		130					

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Relinquished By: <i>Teddon Woodfin</i>		Date: 3/27/12		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 3:00		Time: 3:00		Time: 4:06		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: 3/27/12		Received By: <i>[Signature]</i>		REMARKS: <i>ENR 100</i>			
Time: 4:06		Time: 4:06		Time: 4:06					
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)					
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>					

† 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

 Received: 06/05/2013
 Reported: 06/06/2013
 Project Name: SRO 103 ST SWD
 Project Number: NONE GIVEN
 Project Location: ORLA

 Sampling Date: 06/05/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SW 1 (H301315-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/06/2013	ND	416	104	400	3.77		

Sample ID: SW 2 (H301315-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	06/06/2013	ND	416	104	400	3.77		

Sample ID: SW 3 (H301315-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/06/2013	ND	416	104	400	3.77	

Sample ID: SW 4 (H301315-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/06/2013	ND	432	108	400	3.77		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

 Received: 06/05/2013
 Reported: 06/06/2013
 Project Name: SRO 103 ST SWD
 Project Number: NONE GIVEN
 Project Location: ORLA

 Sampling Date: 06/05/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SW 5 (H301315-05)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
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 (H301315-06)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
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 (H301315-07)

Chloride, SM4500Cl-B			mg/kg		Analyzed 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 (H301315-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed 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 (H301315-09)

Chloride, SM4500Cl-B			mg/kg		Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

 Received: 06/05/2013
 Reported: 06/06/2013
 Project Name: SRO 103 ST SWD
 Project Number: NONE GIVEN
 Project Location: ORLA

 Sampling Date: 06/05/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SW 10 (H301315-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 (H301315-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 (H301315-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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-B		mg/kg		Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 06/05/2013
Reported: 06/06/2013
Project Name: SRO 103 ST SWD
Project Number: NONE GIVEN
Project Location: ORLA

Sampling Date: 06/05/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: BS 3 (H301315-15)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2013	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

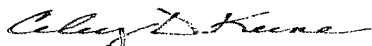
Notes and Definitions

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

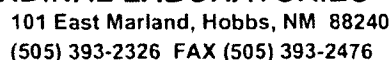
Cardinal Laboratories

*=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 D. Keene, Lab Director/Quality Manager



Page 7 of 8

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

#54



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

Page 8 of 8

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 the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

† 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 Name	SRO 103 State SWD	Facility Type	SWD Facility
Surface Owner State	Mineral Owner	Lease No. (API# 30-015-24462)	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	17	26S	28E					Eddy

Latitude 32 02.232 Longitude 104 06.944

NATURE OF RELEASE

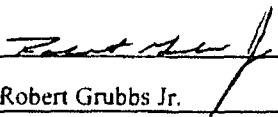
Type of Release	Oil, Produced water	Volume of Release	2 bbls oil, 1000 bbls produced water	Volume Recovered	2 bbls oil, 1000 bbls produced water
Source of Release	Water tanks	Date and Hour of Occurrence	11/04/2011	Date and Hour of Discovery	11/04/2011 7:00 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-OCD			
By Whom?	Josh Russo	Date and Hour 11/07/2011 9:16 a.m.			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*				<div style="border: 2px solid black; padding: 5px; text-align: center;">RECEIVED AUG 13 2013 NMOCD ARTESIA</div>	
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:		
Printed Name: Robert Grubbs Jr.	Approval Date:	Expiration Date:	
Title: Sr. Environmental Coordinator	Conditions of Approval:		
E-mail Address: rgrubbs@concho.com	Attached <input type="checkbox"/>		
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

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 Name	SRO 103 State SWD	Facility Type	SWD Facility

Surface Owner	State	Mineral Owner		Lease No. (API#)	30-015-24462
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	17	26S	28E					Eddy

Latitude 32 02.232 Longitude 104 06.944

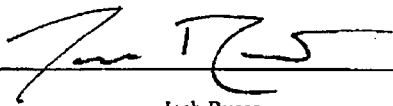
NATURE OF RELEASE

Type of Release	Oil, Produced water	Volume of Release	2bbls Oil, 1000bbls Produced water	Volume Recovered	2bbls Oil, 910bbls Produced water
Source of Release	Water tanks	Date and Hour of Occurrence	11/04/2011	Date and Hour of Discovery	11/04/2011 7:00 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher OGD		
By Whom?	Josh Russo	Date and Hour	11/07/2011 9:16 a.m.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	AUG 13 2013		
If a Watercourse was Impacted, Describe Fully.*				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 1000bbls of produced water and 2bbls of oil were released from the SWD tanks at the SRO 103 State SWD and we were able to recover 2bbls of oil and 910bbls of produced water with vacuum trucks. Most of the release was contained inside the berm walls of the facility. This facility is lined with a 40mil plastic liner. Some of the release spilled over the lined berm walls and streamed into the pasture. BBC will sample the spill site area in the pasture to delineate any possible contamination from the release.

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.

Signature:		OIL CONSERVATION DIVISION	
Printed Name:	Josh Russo	Approved by District Supervisor:	
Title:	HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address:	jrusso@conchoresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	11/14/2011	Phone:	432-212-2399

* Attach Additional Sheets If Necessary

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 SP2 & 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
E-Mail: cbrunson@bbcinternational.com

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