

# Closure Report

RECEIVED

OCT 21 2013

Site Description	
Site Name:	Benson Shugart WFU #11
Company:	Chevron Delaware Basin
Legal Description:	U/L I, Section 26, T18S, R30E
County:	Eddy County, NM
GPS Coordinates:	N 32.71690° W 103.93508°

2RP-1646

NMOCD ARTESIA

Release Data	
Date of Release:	05/01/2013
Type of Release:	Produced Water
Source of Release:	Injection line leak
Volume of Release:	133 bbls
Volume Recovered:	90 bbls

Remediation Specifications	
Remediation Parameters:	Excavate the entire leak area to a depth of 4 feet. Place an impermeable line in the bottom of the excavation area. Backfill the site with clean soil.
Remediation Activities:	09/13/2013 to 10/15/2013

Plan Sent to OCD:	08/12/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	08/13/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	08/14/2013	Email from Cliff Brunson to Mike Burton
BLM Approval of Plan:	08/22/2013	Email from Mike Burton to Bradley Blevins

Supporting Documentation	
Initial C-141	Signed 05/05/2013
Final C-141	Signed 10/17/2013
Site Diagram	May 2013
Groundwater Plot	175'-200'
TOPO Maps	May 2013
Lab Summary	05/28/2013-05/31/2013, 06/27/2013, and 08/22/2013
Lab Analysis	05/28/2013-05/31/2013, 06/27/2013, and 08/22/2013
Correspondence	Request and approval of remediation plan via email

Request for Closure	
Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.	
Cliff Brunson, President of BBC International Inc.	10/18/2013

Site Sanitary at least 10 per MB

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	Chevron Delaware Basin	Contact	Bradley Blevins
Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 391-1462
Facility Name	Benson Shugart #11 Well and Battery	Facility Type	WFU

Surface Owner	BLM	Mineral Owner		API #	30-015-20528
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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
I	26	18S	30E	2310	South	330	East	Eddy County, NM

Latitude N 32.71690° Longitude W 103.93508°

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	133 bbls	Volume Recovered	90 bbls
Source of Release	Injection line leak	Date and Hour of Occurrence	05/01/2013 @ 1:00 am	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- NMOCD; James Amos- BLM		
By Whom?	Bradley Blevins	Date and Hour	05/01/2013 @ 4:25 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

**RECEIVED**  
OCT 21 2013  
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
An injection line leak caused 133 bbls of produced water to leak onto the ground. 90 bbls of fluid were recovered via vacuum truck and the line was repaired.

Describe Area Affected and Cleanup Action Taken.\*  
The area affected was approximately 100' x 250'. An injection line leak caused 133 bbls of produced water to leak onto the ground. 90 bbls of fluid were recovered via vacuum truck and the line was repaired. Further remediation will be performed in accordance with a NMOCD and BLM approved remediation plan.

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: <u>Bradley Blevins</u>	OIL CONSERVATION DIVISION		
Printed Name: Bradley Blevins	Approved by District Supervisor:		
Title: HE Specialist	Approval Date:	Expiration Date:	
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 05/06/2013	Phone: (575) 391-1462		

\* Attach Additional Sheets If Necessary

District I  
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**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

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Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 391-1462
Facility Name	Benson Shugart #11 Well and Battery	Facility Type	WFU
Surface Owner	BLM	Mineral Owner	API # 30-015-20528

**LOCATION OF RELEASE**

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I	26	18S	30E	2310	South	330	East	Eddy County, NM

Latitude N 32.71690° Longitude W 103.93508°

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By Whom?	Bradley Blevins	Date and Hour	05/01/2013 @ 4:25 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

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The area affected us approximately 100' x 250'. An injection line leak caused 133 bbls of produced water to leak onto the ground. 90 bbls of fluid were recovered via vacuum truck and the line was repaired. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 08/13/2013 and approved by Mike Burton of the BLM via email on 08/22/2013.

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:

*Bradley Blevins*

Printed Name: Bradley Blevins

Approved by District Supervisor:

Title: HE Specialist

Approval Date:

Expiration Date:

E-mail Address: Bradley.blevins@chk.com

Conditions of Approval:

Attached ☐

Date: 10/17/2013

Phone: (575) 391-1462

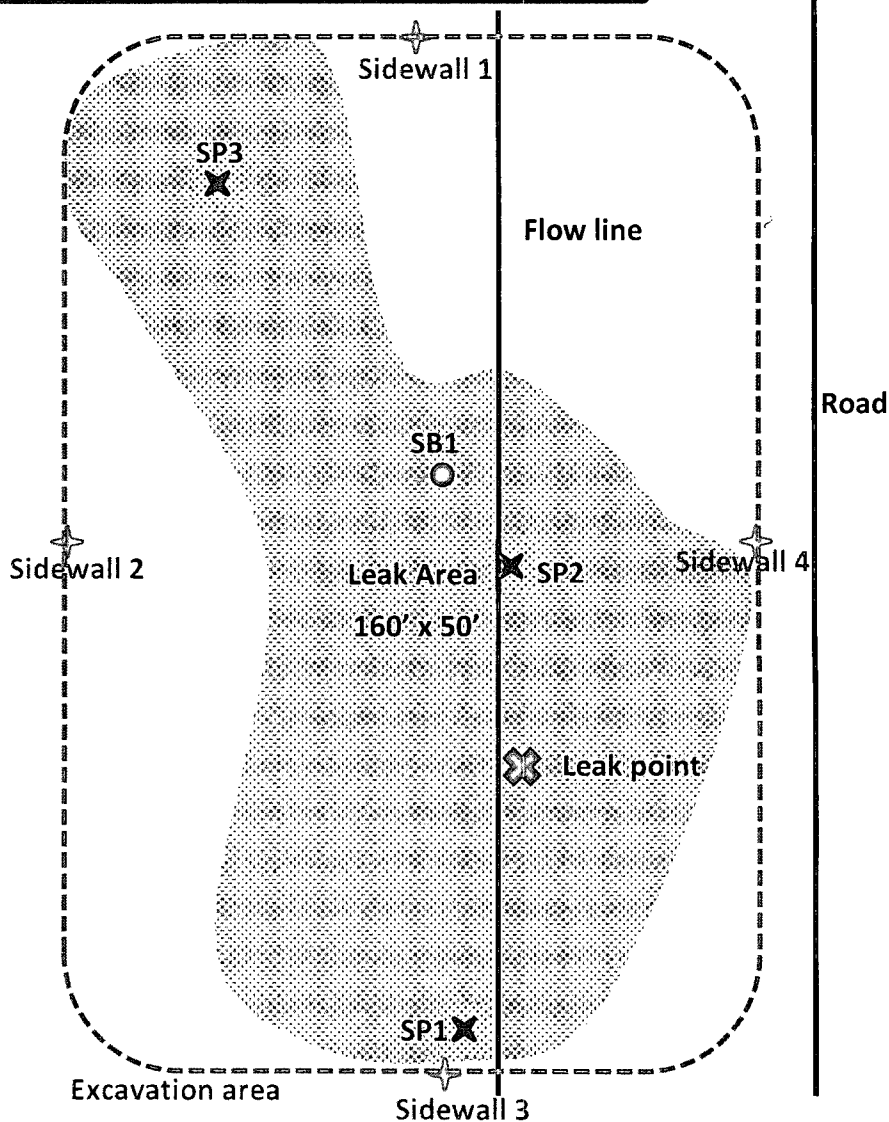
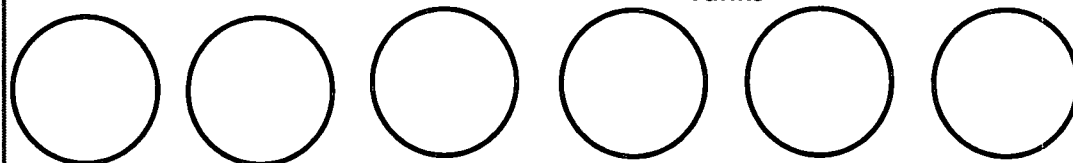
\* Attach Additional Sheets If Necessary



Chevron  
Benson Shugart WFU #11

Firewall

Tanks



✦ Confirmation Sample

U/L I, Section 26, T18S, R30E  
2310' FSL and 330' FEL  
Eddy County, NM  
N 32.71690° W 103.93508°  
API# 30-015-20528

BBC International, Inc.

Chevron

Benson Shugart WFU #11

Date: 05/07/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Chevron 2013



# Groundwater Plot

## Chevron Benson Shugart WFU #11

County  
Eddy

Unit Letter  
I

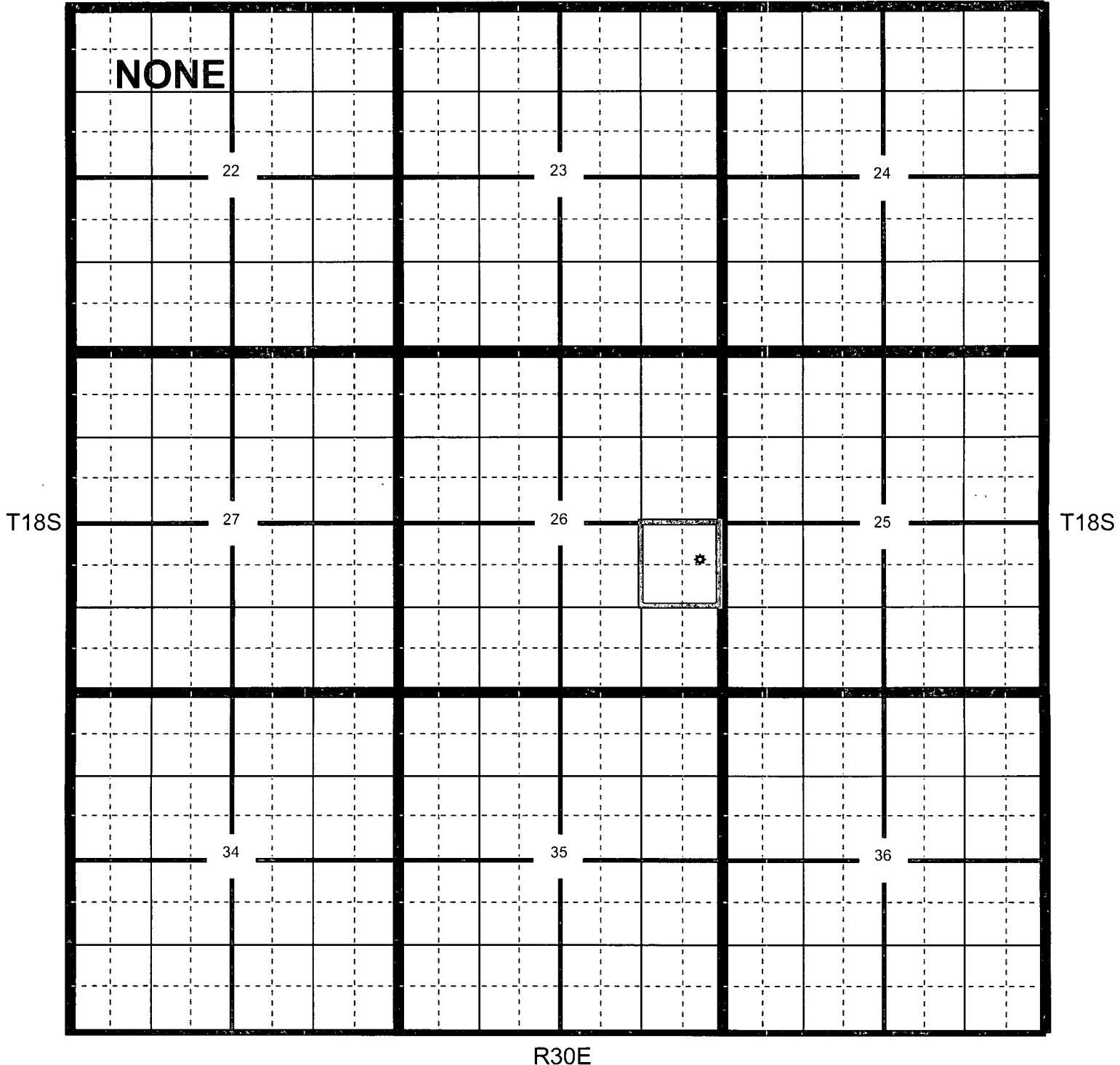
Section  
26

Township  
18S

Range  
30E

Trend Map 175'-200'

R30E



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

# Chevron Benson Shugart WFU #11

County Eddy      Unit Letter I      Section 26      Township 18S      Range 30E

Trend Map 175'-200'

1

2

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

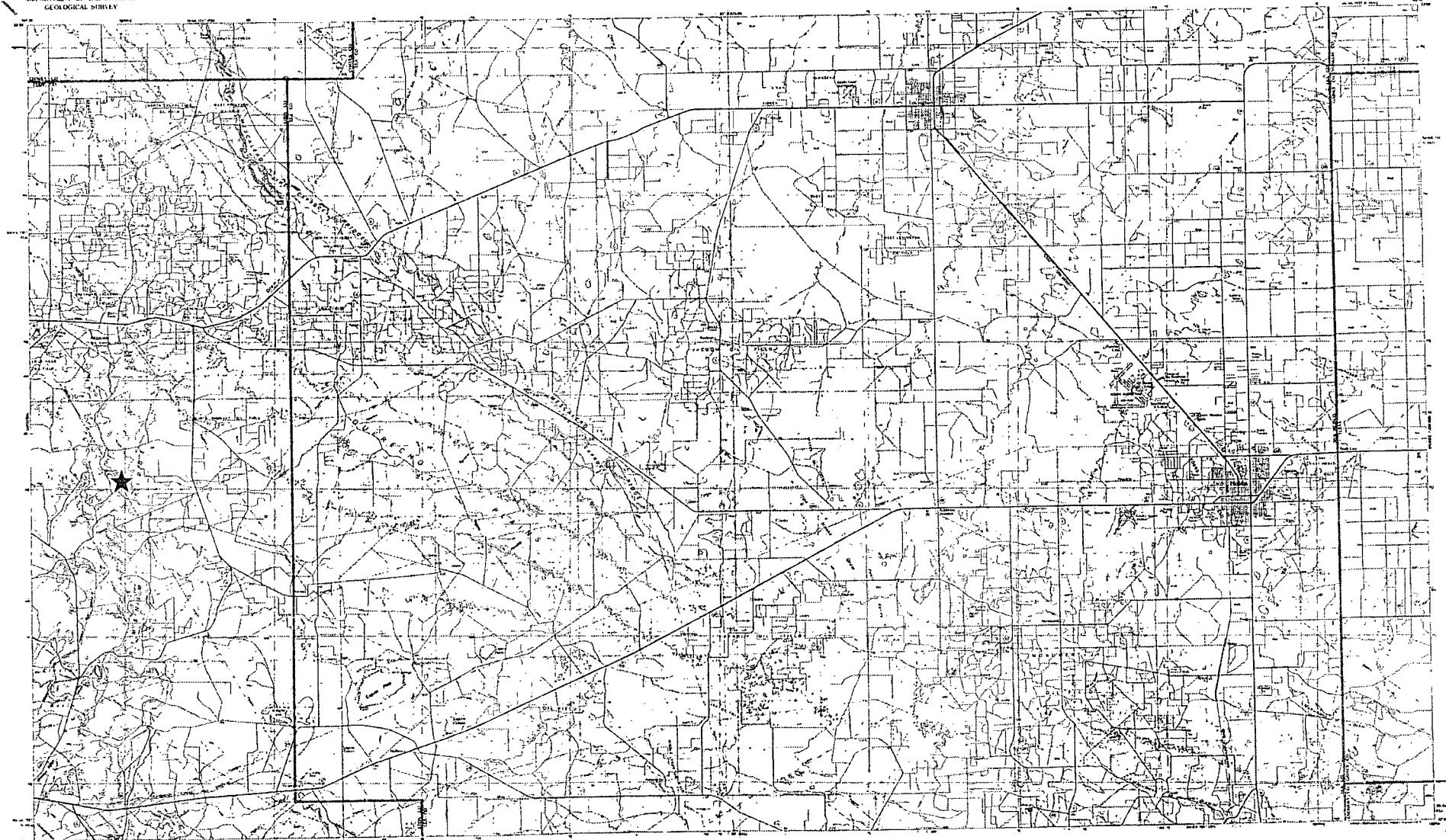
3

4

# Benson Shugart WFU #11

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

HOBBS QUADRANGLE  
NEW MEXICO-TEXAS  
1:100,000 SCALE SERIES (TOPOGRAPHIC)



Produced by the Geological Survey  
in cooperation with the Soil Conservation Service  
Contract No. 1465-1-23000 and 1462-300 with supplementary survey  
done 1952-1960. See notes for dates of publication stages.  
Formerly revised from *soils of the Washington State 1972* and 1978 in  
other forms. See Notes. Additional information on field stations  
May 1972-1979.

Progress and 10 000-acre grid, per 30.  
Unpublished Progress Report.  
10 000-acre grid is based on New 30-30-30 coordinate  
system, with 10 000-acre grid. See Notes. Additional information  
1972. See Notes on field stations.

MAP DATA	
1	10/10/10
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6	10/10/10
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THE UNIVERSITY OF CHICAGO

[illegible]

EXPIRATION DATE 06/01/2005 10:00:00  
 -ADDITIONAL INFORMATION-  
 To receive more information, please call 1-800-858-8888  
 To receive more information, please call 1-800-858-8888

THIS REPORT IS UNCLASSIFIED SINCE IT DOES NOT CONTAIN INFORMATION THAT IS EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION SCHEDULES.



14488

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BLAD CLASIFICACIÓN

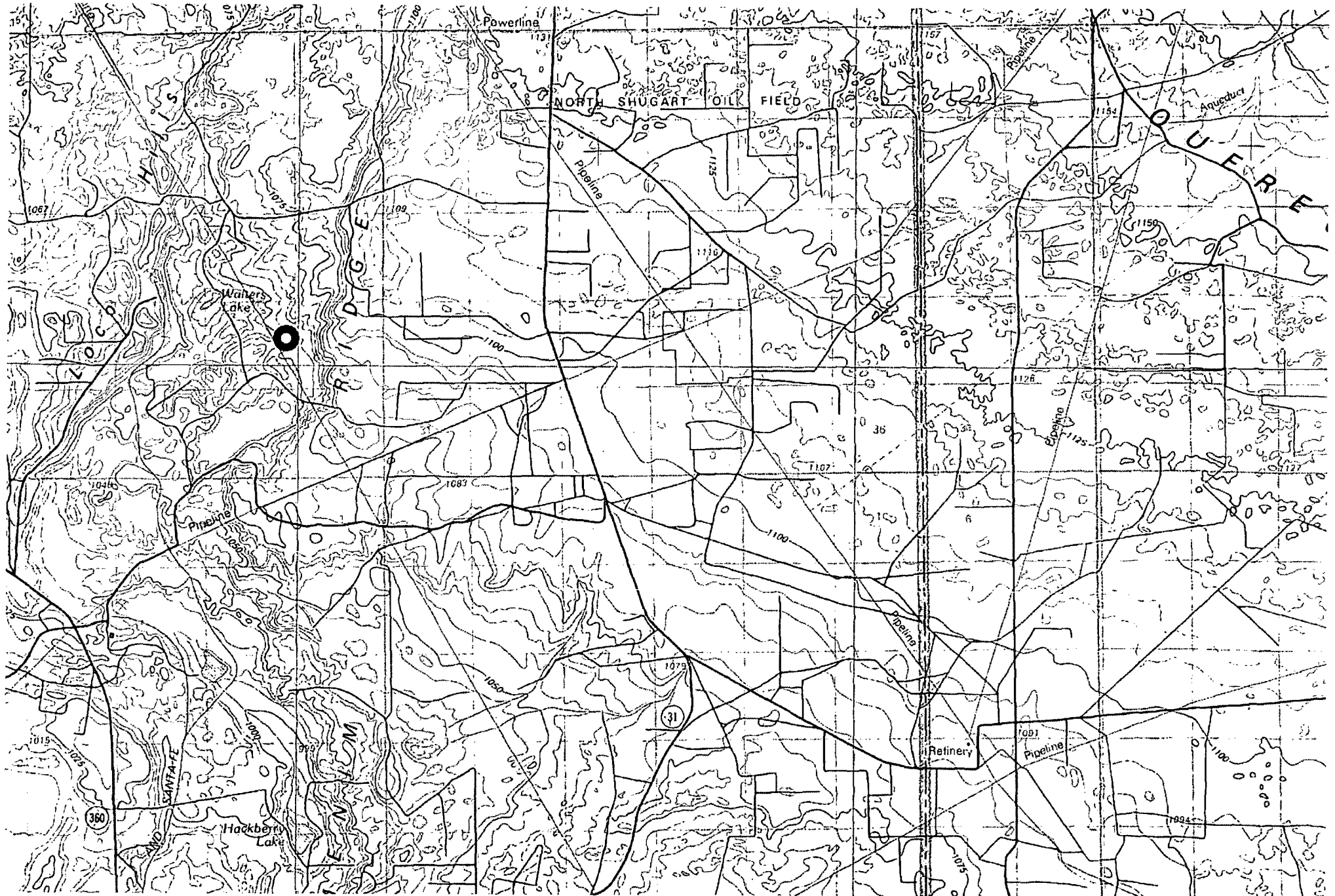
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HOBBS, NEW MEXICO-TEXAS

1972

Oxy

# Benson Shugart WFU #11





**Laboratory Analytical Results Summary**  
**Benson Shugart WFU #11**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 6'	SP1 @ 9'	SP1 @ 12'	SP1 @ 15'	SP1 @ 18'
Analyte	Method	Date	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13
			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
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		7920	4240	2720	3400	4680	5680	12800
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 @ 6'	SP2 @ 9'	SP2 @ 12'	SP2 @ 15'	SP2 @ 18'
Analyte	Method	Date	5/28/13	5/28/13	5/28/13	5/31/13	5/31/13	5/31/13	5/31/13
			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
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		9800	5120	2560	8000	4080	5920	4560
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	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 9'	SP3 @ 12'	SP3 @ 15'	SP3 @ 18'
Analyte	Method	Date	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13
			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
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		3920	5920	4560	5120	6400	4560	5440
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

**Laboratory Analytical Results Summary**  
**BS WFU #11**

		Sample	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB1 @ 60'	SB1 @ 70'	SB1 @ 80'	SB1 @ 85'
Analyte	Method	Date	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		2160	2320	2400	2600	2000	1560	208	144

**Laboratory Analytical Results Summary  
Benson Shugart WFU #11**

<b>Confirmation</b>		<b>Sample</b>	<b>Sidewall 1</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	8/22/13
			<b>mg/Kg</b>
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0
<b>GRO</b>	TPH 8015M		<10.0
<b>DRO</b>	TPH 8015M		<10.0

		<b>Sample</b>	<b>Sidewall 2</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	8/22/13
			<b>mg/Kg</b>
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0
<b>GRO</b>	TPH 8015M		<10.0
<b>DRO</b>	TPH 8015M		<10.0

		<b>Sample</b>	<b>Sidewall 3</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	8/22/13
			<b>mg/Kg</b>
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0
<b>GRO</b>	TPH 8015M		<10.0
<b>DRO</b>	TPH 8015M		<10.0

		<b>Sample</b>	<b>Sidewall 4</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	8/22/13
			<b>mg/Kg</b>
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0
<b>GRO</b>	TPH 8015M		<10.0
<b>DRO</b>	TPH 8015M		<10.0

June 06, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BS WFU #11

Enclosed are the results of analyses for samples received by the laboratory on 06/03/13 10:55.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

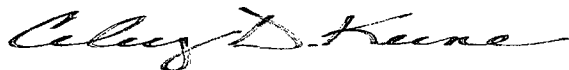
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 06/03/2013  
 Reported: 06/06/2013  
 Project Name: BS WFU #11  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 05/28/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1 FT (H301290-01)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40		
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20		
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4		
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90		
Total BTEX	<0.300	0.300	06/05/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	06/06/2013	ND	432	108	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	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

**Sample ID: SP 1 @ 3 FT (H301290-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	06/06/2013	ND	432	108	400	3.77	

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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: 06/03/2013  
Reported: 06/06/2013  
Project Name: BS WFU #11  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 05/28/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 6 FT (H301290-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	06/06/2013	ND	432	108	400	3.77		

**Sample ID: SP 1 @ 9 FT (H301290-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	06/06/2013	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 12 FT (H301290-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4680	16.0	06/06/2013	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 15 FT (H301290-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	06/06/2013	ND	432	108	400	3.77		

**Sample ID: SP 1 @ 18 FT (H301290-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	06/06/2013	ND	416	104	400	3.77	

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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: 06/03/2013  
 Reported: 06/06/2013  
 Project Name: BS WFU #11  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 05/28/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1 FT (H301290-08)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40	
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20	
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4	
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90	
Total BTEX	<0.300	0.300	06/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	06/06/2013	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	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

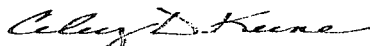
**Sample ID: SP 2 @ 3 FT (H301290-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/06/2013	ND	416	104	400	3.77	

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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: 06/03/2013  
Reported: 06/06/2013  
Project Name: BS WFU #11  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 05/28/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 6 FT (H301290-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	06/06/2013	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 9 FT (H301290-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	06/06/2013	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 12 FT (H301290-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	06/06/2013	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 15 FT (H301290-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/06/2013	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 18 FT (H301290-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	

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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: 06/03/2013  
Reported: 06/06/2013  
Project Name: BS WFU #11  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 05/31/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1 FT (H301290-15)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40		
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20		
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4		
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90		
Total BTEx	<0.300	0.300	06/05/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	06/06/2013	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	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	

Surrogate: 1-Chlorooctane 93.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

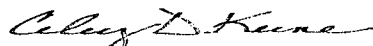
**Sample ID: SP 3 @ 3 FT (H301290-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/06/2013	ND	416	104	400	3.77	

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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: 06/03/2013  
 Reported: 06/06/2013  
 Project Name: BS WFU #11  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 05/31/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 6 FT (H301290-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 9 FT (H301290-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/06/2013	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 12 FT (H301290-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	06/06/2013	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 15 FT (H301290-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 18 FT (H301290-21)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	06/06/2013	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

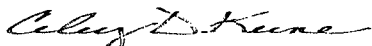
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

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---

Celey D. Keene, Lab Director/Quality Manager



## Page 9 of 11

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

#154



## Page 10 of 11

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# 54



## Page 11 of 11

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

#54

July 09, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BS WF #11

Enclosed are the results of analyses for samples received by the laboratory on 07/01/13 16:35.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

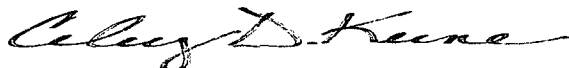
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 07/01/2013  
Reported: 07/09/2013  
Project Name: BS WF #11  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 06/27/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 20' (H301552-01)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: SB 1 @ 30' (H301552-02)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: SB 1 @ 40' (H301552-03)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: SB 1 @ 50' (H301552-04)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/09/2013	ND	432	108	400	0.00	

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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: 07/01/2013  
Reported: 07/09/2013  
Project Name: BS WF #11  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 06/27/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 60' (H301552-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	07/09/2013	ND	432	108	400	0.00		

**Sample ID: SB 1 @ 70' (H301552-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1560	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: SB 1 @ 80' (H301552-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/09/2013	ND	432	108	400	0.00	


**Sample ID: SB 1 @ 85' (H301552-08)**

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	07/09/2013	ND	416	104	400	0.00	

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\* = Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

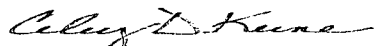
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

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\*=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**

Page 5 of 5

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
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>Chevron</i>				City: <i>SANP</i>																			
Project Name: <i>BS WF #12</i>				State: <i>SA</i> Zip:																			
Project Location: <i>Loon Hills</i>				Phone #:																			
Sampler Name: <i>Cory Ray</i>				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(GIRAB OR C)COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME									
<i>H301552</i>																							
	<i>1 SB2 @ 20</i>	<i>6</i>	<i>2</i>			<i>X</i>					<i>X</i>		<i>6-27-13</i>	<i>9:20</i>	<i>X</i>								
	<i>2 SB2 @ 30</i>	<i>6</i>	<i>2</i>			<i>X</i>					<i>X</i>		<i>6-27-13</i>	<i>9:42</i>	<i>X</i>								
	<i>3 SB2 @ 40</i>	<i>6</i>	<i>2</i>			<i>X</i>					<i>X</i>		<i>6-27-13</i>	<i>10:05</i>	<i>X</i>								
	<i>4 SB2 @ 50</i>	<i>6</i>	<i>2</i>			<i>X</i>					<i>X</i>		<i>6-27-13</i>	<i>10:24</i>	<i>X</i>								
	<i>5 SB2 @ 60</i>	<i>6</i>	<i>2</i>			<i>X</i>					<i>X</i>		<i>6-27-13</i>	<i>10:49</i>	<i>X</i>								
	<i>6 SB2 @ 70</i>	<i>6</i>	<i>2</i>			<i>X</i>					<i>X</i>		<i>6-27-13</i>	<i>11:10</i>	<i>X</i>								
	<i>7 SB2 @ 80</i>	<i>6</i>	<i>2</i>			<i>X</i>					<i>X</i>		<i>6-27-13</i>	<i>11:42</i>	<i>X</i>								
	<i>8 SB2 @ 85</i>	<i>6</i>	<i>2</i>			<i>X</i>					<i>X</i>		<i>6-27-13</i>	<i>11:55</i>	<i>X</i>								

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Relinquished By: <i>[Signature]</i>	Date: <i>11/1/13</i>	Received By: <i>Jodi Jensen</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>4:35</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>		
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

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

#54



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

---

September 03, 2013

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

RE: BENSON SHUGART WFU #11

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 16:20.

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](http://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: 08/23/2013  
 Reported: 09/03/2013  
 Project Name: BENSON SHUGART WFU #11  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 08/22/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SIDE WALL #1 (H302042-01)**

BTEx 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEx	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 99.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SIDE WALL #2 (H302042-02)**

BTX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2013	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AR/						

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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: 08/23/2013  
 Reported: 09/03/2013  
 Project Name: BENSON SHUGART WFU #11  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 08/22/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SIDE WALL #3 (H302042-03)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45	

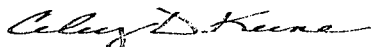
Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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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: (575) 397-0397

Received:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SIDE WALL #4 (H302042-04)**

BTEx 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEx	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74		
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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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

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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**

Page 7 of 7

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CHLORIDE</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> </div>											
Address: P.O. Box 805				Company:															
City: Hobbs		State: NM Zip: 88241		Attn: <i>SAME</i>															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:															
Project #:		Project Owner: <i>CHEVRON</i>		City:															
Project Name: <i>Benson Shugart WPA # 11</i>				State: Zip:															
Project Location: <i>Loco Hills NM</i>				Phone #:															
Sampler Name: <i>ROGER HERNANDEZ</i>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME						
<i>H30204</i>																			
<i>1</i>	<i>Side wall # 1</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>8-22-13</i>	<i>1:07</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>			
<i>2</i>	<i>Side wall # 2</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>8-22-13</i>	<i>1:09</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>			
<i>3</i>	<i>Side wall # 3</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>8-22-13</i>	<i>1:13</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>			
<i>4</i>	<i>Side wall # 4</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>8-22-13</i>	<i>1:25</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>			

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Relinquished By: <i>Roger Hernandez</i>	Date: <i>8-23-13</i> Time: <i>4:12</i>	Received By: <i>SL - RLB</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>SL - RLB</i>	Date: <i>8-23-13</i> Time: <i>4:20</i>	Received By: <i>Jodi Benson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>5.78</i>			REMARKS:	
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			CHECKED BY: <i>JA</i>	

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

*#54*

## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Tuesday, August 13, 2013 8:48 AM  
**To:** Cliff P. Brunson  
**Cc:** Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: Chevron Benson Shugart WFU #11 Leak Site

Cliff,

Your proposed amendment for this site is approved by OCD, pending like approval by BLM.

Thank you for your time to discuss this incident and reach an amenable solution.

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:** Monday, August 12, 2013 6:47 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** FW: Chevron Benson Shugart WFU #11 Leak Site

Mike,

Per our discussion this afternoon, Chevron would now like to amend the previously submitted remediation plan to now include an excavation of 4 feet with an impermeable liner placed in the bottom of the excavation area and then backfill the site with clean soil. The existing line in the leak area will be abandoned and re-routed through another area per an agreement with the BLM as well.

If you would please respond via e-mail with your agreement to this new plan, it would be greatly appreciated.

Thanks,

Cliff

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

E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

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\*\*\*\*\*

---

**From:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>

**Date:** Monday, August 5, 2013 7:25 PM

**To:** Mike Bratcher <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>

**Cc:** Bradley Blevins <[bradley.blevins@chevron.com](mailto:bradley.blevins@chevron.com)>, Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>, Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>, Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>

**Subject:** Chevron Benson Shugart WFU #11 Leak Site

Mike,

I have attached a remediation packet that includes a site drawing, lab summary table, groundwater plot, and original lab data for your review. I would like to call you early Tuesday morning to discuss this remediation plan on the phone so we could get an approval to move forward on this leak site. I would like to talk to you before 10 a.m. if possible. Please let me know.

Here is the proposal that I would like to make: BBC sampled three spots to a depth of 18 feet without reaching the 250 ppm range for chloride. We then drilled a soil boring to a depth of 85 feet when we did get results below 250 ppm. As depicted in the diagram, the injection line that leaked runs right down the center of the leak area. This line is approximately 3.5 to 4 feet below the surface. With depth to water being in the range of 175 to 200 feet, Chevron would like to propose an excavation of 3 feet in depth then install a compacted clay liner and back fill the leak site. This depth will allow for revegetation and in the interest of safety, the excavation will stay above the line and the line will not be compromised by being potentially damaged by excavation or being put in danger by a free span or having to block up the line to support it.

I appreciate your time and I look forward to discussing this plan with you.

Thanks, Cliff

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\*\*\*\*\*

## Kathy Purvis

---

**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Wednesday, September 04, 2013 7:05 PM  
**To:** Kathy Purvis  
**Subject:** FW: Chevron Benson Shugart WFU #11 Leak Site

Kathy,

Here is the approval from the BLM.

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
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Hobbs, NM 88241-0805 USA  
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\*\*\*\*\*

---

**From:** Bradley Blevins <[bradley.blevins@chevron.com](mailto:bradley.blevins@chevron.com)>  
**Date:** Thursday, August 22, 2013 3:26 PM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>, Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>  
**Subject:** Fwd: Chevron Benson Shugart WFU #11 Leak Site

Sent from my iPhone

Begin forwarded message:

**From:** "Burton, Michael" <[mburton@blm.gov](mailto:mburton@blm.gov)>  
**Date:** August 22, 2013, 3:23:06 PM MDT  
**To:** "Blevins, Bradley G" <[Bradley.Blevins@chevron.com](mailto:Bradley.Blevins@chevron.com)>  
**Subject:** Re: FW: Chevron Benson Shugart WFU #11 Leak Site

This plan is approved as written. Please keep myself informed of any changing condition's or changes to this plan.  
Thanks

**Mike Burton**  
**BLM-CFO**  
**Environmental Protection Specialist**

**575-234-2226 office**  
**575-361-3574 cell**  
**mburton@blm.gov**

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On Thu, Aug 22, 2013 at 10:30 AM, Blevins, Bradley G <[Bradley.Blevins@chevron.com](mailto:Bradley.Blevins@chevron.com)> wrote:

Mike,

Do you approve the proposed plan?

Thanks

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Wednesday, August 14, 2013 9:50 AM  
**To:** Burton, Michael  
**Cc:** Blevins, Bradley G; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: Chevron Benson Shugart WFU #11 Leak Site

Mike,

I have attached the remediation packet to this message. I originally sent it to you on August 5th, however, as you know Chevron has amended the excavation depth to 4 feet. Also, we would ask to waive the stipulation of bottom sampling as we know that chloride will be left in place and we already have data below the excavation depth as you will see in the packet. If you have any questions, please let me know.

Thanks,

Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

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\*\*\*\*\*

---

**From:** "Burton, Michael" <[mburton@blm.gov](mailto:mburton@blm.gov)>  
**Date:** Wednesday, August 14, 2013 6:28 AM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>  
**Subject:** Re: FW: Chevron Benson Shugart WFU #11 Leak Site

Cliff,

I do not believe I have this plan or I misplaced it. Can you fwd it to me so I can attach my stips to it? Thanks

**Mike Burton**  
**BLM-CFO**  
**Environmental Protection Specialist**  
**575-234-2226 office**  
**575-361-3574 cell**  
**mburton@blm.gov**

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On Tue, Aug 13, 2013 at 6:23 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:

Mike,

Chevron has amended the remediation plan to now excavate down to 4 feet rather than 3 feet then add an impermeable liner. As you can see below, Mike Bratcher of the NMOCD has agreed to this amended plan. We are therefore asking for the BLM's approval as well. If you would please reply back via e-mail, it would be greatly appreciated.

Thank you,

Cliff

Cliff P. Brunson, CEI, CRS

President

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\*\*\*\*\*

---

**From:** Mike Bratcher <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Date:** Tuesday, August 13, 2013 8:47 AM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>  
**Cc:** Bradley Blevins <[bradley.blevins@chevron.com](mailto:bradley.blevins@chevron.com)>, Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>, Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>, Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** RE: Chevron Benson Shugart WFU #11 Leak Site

Cliff,

Your proposed amendment for this site is approved by OCD, pending like approval by BLM.

Thank you for your time to discuss this incident and reach an amenable solution.

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:** Monday, August 12, 2013 6:47 PM

**To:** Bratcher, Mike, EMNRD

**Cc:** Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis

**Subject:** FW: Chevron Benson Shugart WFU #11 Leak Site

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**Date:** Monday, August 5, 2013 7:25 PM  
**To:** Mike Bratcher <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Cc:** Bradley Blevins <[bradley.blevins@chevron.com](mailto:bradley.blevins@chevron.com)>, Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>, Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>, Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>  
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Cliff P. Brunson, CEI, CRS

President

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\*\*\*\*\*

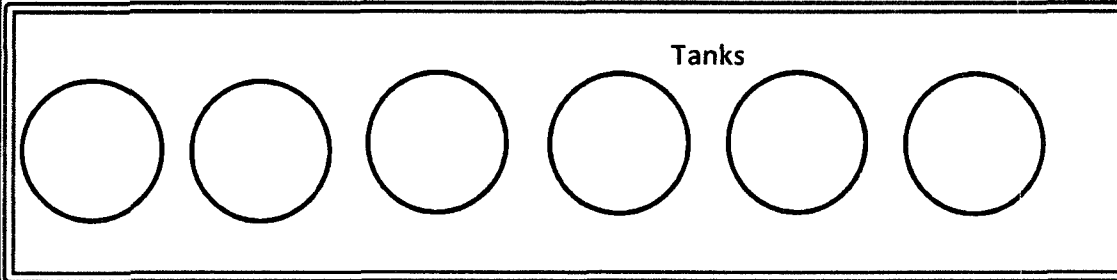
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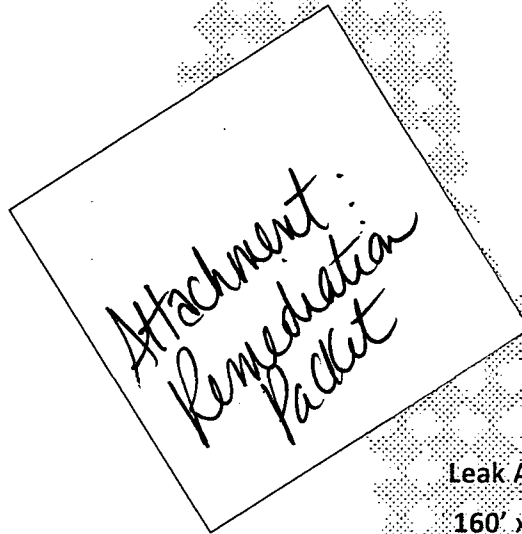


Chevron  
Benson Shugart WFU #11

Firewall



Tanks



Flow line

Road

Leak Area ✕ SP2  
160' x 50'

✕ Leak point

SP1 ✕

U/L I, Section 26, T18S, R30E  
2310' FSL and 330' FEL  
Eddy County, NM  
N 32.71690° W 103.93508°  
API# 30-015-20528

BBC International, Inc.

Chevron

Benson Shugart WFU #11

Date: 05/07/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Chevron 2013



# Groundwater Plot

## Chevron Benson Shugart WFU #11

County  
Eddy

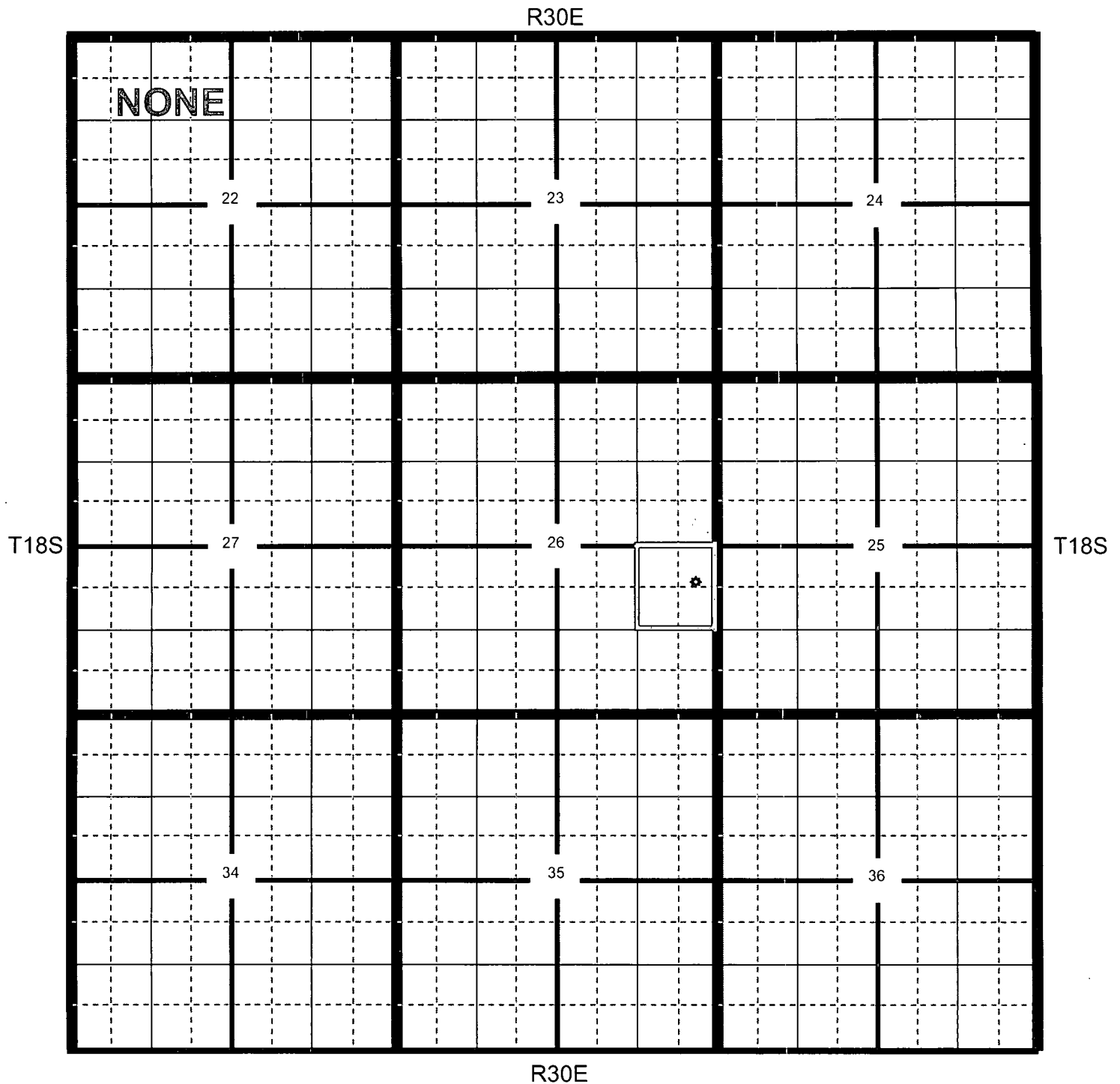
Unit Letter  
I

Section  
26

Township  
18S

Range  
30E

Trend Map 175'-200'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases



Section Quarters

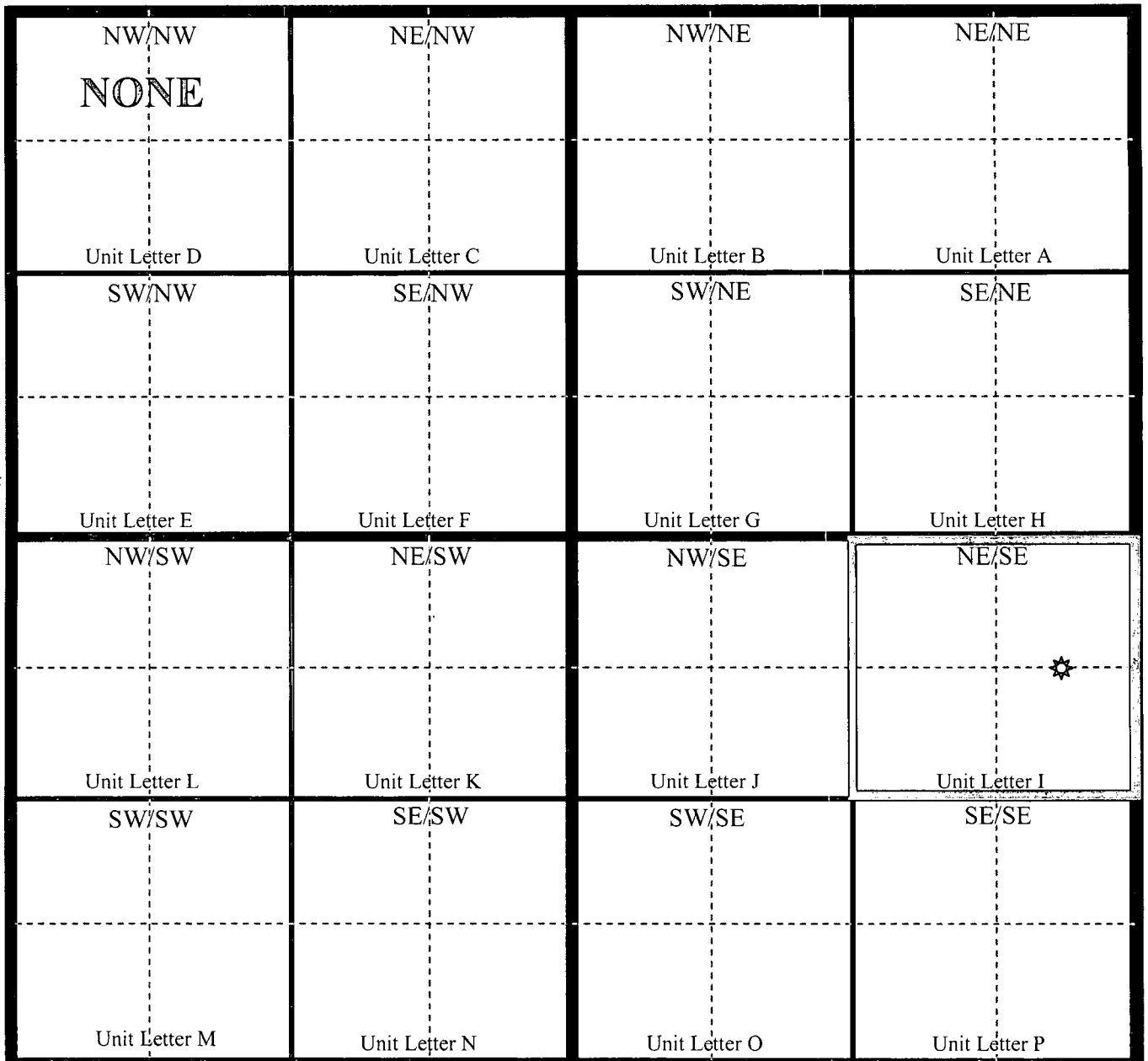
Chevron Benson Shugart WFU #11

County Eddy      Unit Letter I      Section 26      Township 18S      Range 30E

Trend Map 175'-200'

1

2



3

4

⊛ Location      ○ OCD      ○ USGS      ○ SEO      ● All Databases

**Laboratory Analytical Results Summary  
Benson Shugart WFU #11**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 6'	SP1 @ 9'	SP1 @ 12'	SP1 @ 15'	SP1 @ 18'
Analyte	Method	Date	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13
			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
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		7920	4240	2720	3400	4680	5680	12800
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 @ 6'	SP2 @ 9'	SP2 @ 12'	SP2 @ 15'	SP2 @ 18'
Analyte	Method	Date	5/28/13	5/28/13	5/28/13	5/31/13	5/31/13	5/31/13	5/31/13
			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
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		9800	5120	2560	8000	4080	5920	4560
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	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 9'	SP3 @ 12'	SP3 @ 15'	SP3 @ 18'
Analyte	Method	Date	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13
			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
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		3920	5920	4560	5120	6400	4560	5440
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



**Laboratory Analytical Results Summary**  
**BS WFU #11**

		Sample	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB1 @ 60'	SB1 @ 70'	SB1 @ 80'	SB1 @ 85'
Analyte	Method	Date	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		2160	2320	2400	2600	2000	1560	208	144

June 06, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BS WFU #11

Enclosed are the results of analyses for samples received by the laboratory on 06/03/13 10:55.

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](http://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,



Caley 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: 06/03/2013  
Reported: 06/06/2013  
Project Name: BS WFU #11  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 05/28/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1 FT (H301290-01)**

BTEX 80218		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40	
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20	
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4	
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90	
Total BTEX	<0.300	0.300	06/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	06/06/2013	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					

Surrogate: 1-Chlorooctane 103 % 63.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

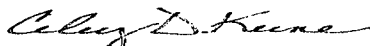
**Sample ID: SP 1 @ 3 FT (H301290-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	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: 06/03/2013  
 Reported: 06/06/2013  
 Project Name: BS WFU #11  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 05/28/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 6 FT (H301290-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	06/06/2013	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 9 FT (H301290-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	06/06/2013	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 12 FT (H301290-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4680	16.0	06/06/2013	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 15 FT (H301290-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/06/2013	ND	432	108	400	3.77	


**Sample ID: SP 1 @ 18 FT (H301290-07)**

Chloride, SM4500Cl-B			mg/kg								Analyzed By: DW		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
Chloride	12800	16.0	06/06/2013	ND	416	104	400	3.77					

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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: 06/03/2013  
 Reported: 06/06/2013  
 Project Name: BS WFU #11  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 05/28/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1 FT (H301290-08)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40		
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20		
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4		
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90		
Total BTEX	<0.300	0.300	06/05/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9800	16.0	06/06/2013	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	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154


**Sample ID: SP 2 @ 3 FT (H301290-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/06/2013	ND	416	104	400	3.77	

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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: (575) 397-0397

 Received: 06/03/2013  
 Reported: 06/06/2013  
 Project Name: BS WFU #11  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 05/28/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 6 FT (H301290-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	06/06/2013	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 9 FT (H301290-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	06/06/2013	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 12 FT (H301290-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	06/06/2013	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 15 FT (H301290-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	06/06/2013	ND	416	104	400	3.77		


**Sample ID: SP 2 @ 18 FT (H301290-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	

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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: 06/03/2013  
Reported: 06/06/2013  
Project Name: BS WFU #11  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 05/31/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1 FT (H301290-15)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40		
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20		
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4		
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90		
Total BTEX	<0.300	0.300	06/05/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	06/06/2013	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					

Surrogate: 1-Chlorooctane 93.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

**Sample ID: SP 3 @ 3 FT (H301290-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	06/06/2013	ND	416	104	400	3.77		

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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: 06/03/2013  
 Reported: 06/06/2013  
 Project Name: BS WFU #11  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 05/31/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 6 FT (H301290-17)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 9 FT (H301290-18)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/06/2013	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 12 FT (H301290-19)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	06/06/2013	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 15 FT (H301290-20)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	

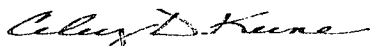
**Sample ID: SP 3 @ 18 FT (H301290-21)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	06/06/2013	ND	416	104	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

---

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---

Celey D. Keene, Lab Director/Quality Manager

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 11

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:														City:									
Project #:		Project Owner: Chevron		State:														Zip:									
Project Name: BS WFO# 11		Phone #:		Fax #:																							
Project Location: 600 Hills																											
Sampler Name: Gary Ray																											
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		MATRIX		PRESERV		SAMPLING		CL- TPH B-TEX													
								GROUNDWATER		WASTEWATER		DATE														TIME	
H301290								SOIL		OIL																	
1 SP 20 2 FT		G 1										X														5-28 9:05	
2 SP 20 3 FT		G 1										X														5-28 9:48	
3 SP 20 6 FT		G 1										X														5-28 10:38	
4 SP 20 9 FT		G 2										X														5-28 11:20	
5 SP 20 12 FT		G 1										X														5-28 12:00	
6 SP 20 15 FT		G 1										X														5-28 1:38	
7 SP 20 18 FT		G 2										X														5-28 2:25	
8 SP 20 2 FT		G 1										X		5-28 2:45													
9 SP 20 3 FT		G 1										X		5-28 3:20													
10 SP 20 6 FT		G 1										X		5-28 2:55													
<small>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 hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Relinquished By: [Signature]				Date: 6/3/13		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: 8:40 AM						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By: [Signature]				Date: 6/3/13		Received By: Jodi Benson				REMARKS:																	
				Time: 10:55																							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: [Signature]																					
Sampler - UPS - Bus - Other:				Cool Intact																							
				<input type="checkbox"/> Yes <input type="checkbox"/> No																							

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

#154



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 11  
Page 10 of 11

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
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 #:		City:													
Project Name: BS WFO#11		State: Zip:													
Project Location: Loco Hills		Phone #:													
Sampler Name: Gary Ray		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME	
H301290															
	11 SP2@ 9FT	G 2			X					X			5-31	9:30	X
	12 SP2@ 12FT	G 2			X					X			5-31	10:15	X
	13 SP2@ 15FT	G 2			X					X			5-31	11:00	X
	14 SP2@ 18FT	G 1			X					X			5-31	11:45	X
	15 SP3@ 2FT	G 2			X					X			1:00	2:00	X
	16 SP3@ 3FT	G 2			X					X			5-31	1:30	X
	17 SP7@ 6FT	G 2			X					X			5-31	1:55	X
	18 SP3@ 9FT	G 2			X					X			5-31	2:30	X
	19 SP3@ 12FT	G 2			X					X			5-31	3:10	X
	20 SP3@ 15FT	G 2			X					X			5-31	3:39	X

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Relinquished By:	Date: 6/3/13 Time: 8:10am	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 6/3/13 Time: 10:55	Received By: Jodi Benson	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	50	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: 	REMARKS:

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

#54



## Page 11 of 11

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

#54

July 09, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BS WF #11

Enclosed are the results of analyses for samples received by the laboratory on 07/01/13 16:35.

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](http://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: 07/01/2013  
Reported: 07/09/2013  
Project Name: BS WF #11  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 06/27/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 20' (H301552-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	07/09/2013	ND	432	108	400	0.00		

**Sample ID: SB 1 @ 30' (H301552-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: SB 1 @ 40' (H301552-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: SB 1 @ 50' (H301552-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/09/2013	ND	432	108	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: (575) 397-0397

Received: 07/01/2013  
Reported: 07/09/2013  
Project Name: BS WF #11  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 06/27/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 60' (H301552-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: SB 1 @ 70' (H301552-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1560	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: SB 1 @ 80' (H301552-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/09/2013	ND	432	108	400	0.00		

**Sample ID: SB 1 @ 85' (H301552-08)**

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	07/09/2013	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

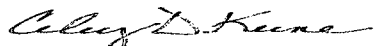
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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\*=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.				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
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>Chevron</i>		City:															
Project Name: <i>BS WF #11</i>		State: <i>SA</i>		Zip:															
Project Location: <i>Loon Hills</i>		Phone #:		Fax #:															
Sampler Name: <i>Gary Ray</i>																			

FOR LAB USE ONLY		GRAB OR (COMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING		DATE	TIME	CL
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:			
H301552		G 1			X				X			6-27-13	9:30	X
	1 SB1 @ 20	G 2			X				X			6-27-13	9:42	X
	2 SB1 @ 30	G 1			X				X			6-27-13	10:05	X
	3 SB1 @ 40	G 2			X				X			6-27-13	10:24	X
	4 SB1 @ 50	G 1			X				X			6-27-13	10:49	X
	5 SB1 @ 60	G 2			X				X			6-27-13	11:10	X
	6 SB1 @ 70	G 2			X				X			6-27-13	11:42	X
	7 SB1 @ 80	G 1			X				X			6-27-13	11:55	X
	8 SB1 @ 85	G 1			X				X					

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Relinquished By: <i>[Signature]</i>	Date: <i>11/1/13</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>4:35</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	<i>[Signature]</i>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

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

#54

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	Chevron Delaware Basin	Contact	Bradley Blevins
Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 391-1462
Facility Name	Benson Shugart #11 Well and Battery	Facility Type	WFU
Surface Owner	BLM	Mineral Owner	
		API #	30-015-20528

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	26	18S	30E	2310	South	330	East	Eddy County, NM

Latitude N 32.71690° Longitude W 103.93508°

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	133 bbls	Volume Recovered	90 bbls
Source of Release	Injection line leak	Date and Hour of Occurrence	05/01/2013 @ 1:00 am	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- NMOCD; James Amos- BLM		
By Whom?	Bradley Blevins	Date and Hour	05/01/2013 @ 4:25 pm		
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.\*


Describe Cause of Problem and Remedial Action Taken.\*

An injection line leak caused 133 bbls of produced water to leak onto the ground. 90 bbls of fluid were recovered via vacuum truck and the line was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The area affected was approximately 100' x 250'. An injection line leak caused 133 bbls of produced water to leak onto the ground. 90 bbls of fluid were recovered via vacuum truck and the line was repaired. Further remediation will be performed in accordance with a NMOCD and BLM approved remediation plan.

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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Bradley Blevins	Approved by District Supervisor:		
Title: HE Specialist	Approval Date:	Expiration Date:	
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 05/06/2013	Phone: (575) 391-1462		

\* Attach Additional Sheets If Necessary