

# Closure Report

**APPROVED**

## Site Description

Site Name:	State II-23 Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L D, Section 23, T10S, R32E
County:	Lea County, NM
GPS Coordinates:	N 33.43878° W 103.64761°

## Release Data

Date of Release:	02/02/2016
Type of Release:	Produced water
Source of Release:	Stress/fatigue of 6" fiberglass water transfer SWD
Volume of Release:	35 bbls
Volume Recovered:	30 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the area around the orphan line to a depth of 2' or as practicable. Place a 20 mil liner in the excavation and backfill with clean soil. Add straw to the top soil to assist in erosion control.
Remediation Activities:	May 2016

Plan Sent to OCD:	04/06/2016	Email from Cliff Brunson to Jamie Keyes
OCD Approval of Plan:	04/07/2016	Email from Jamie Keyes to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Signed 02/10/2016
Final C-141	Signed 05/19/2016
Site Diagram	February 2016
Groundwater Plot	<50'
TOPO Maps	February 2016
Lab Summary	02/05/2016, 02/17/2016-02/19/2016, & 02/15/2016-02/16/2016
Lab Analysis	02/05/2016, 02/17/2016-02/19/2016, & 02/15/2016-02/16/2016
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.

05/24/2016

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	State II-23 Battery	Facility Type	Battery

Surface Owner	State	Mineral Owner	API No.	30-25-20501
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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
D	23	10S	32E					Lea County, NM

Latitude N 33.43878° Longitude W 103.64761°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	35 bbls	Volume Recovered	30 bbls
Source of Release	Stress/fatigue of 6" fiberglass water transfer SWD line	Date and Hour of Occurrence	02/02/2016	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?	Kellie Jones, Jamie Keyes- NMOCD		
By Whom?	Kathy Purvis @ BBC International, Inc.	Date and Hour	02/03/2016 @ 3:46 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.\*

Stress/fatigue of a 6" fiberglass water transfer SWD line caused a spill of 35 bbls of produced water. A vacuum truck recovered 30 bbls of produced water and the line was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 150' x 40' by the right of way. Remediation will be completed in accordance with the remediation plan approved by NMOCD.

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>OIL CONSERVATION DIVISION</u>		
Printed Name:	Casey Summers	Approved by Environmental Specialist:	
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:
E-mail Address:	Casey_Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	2-10-16	Phone:	(575) 513-8289

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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  
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☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	State II-23 Battery	Facility Type	Battery
Surface Owner	State	Mineral Owner	API No. 30-25-20501

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	23	10S	32E					Lea County, NM

Latitude N 33.43878° Longitude W 103.64761°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	35 bbls	Volume Recovered	30 bbls
Source of Release	Stress/fatigue of 6" fiberglass water transfer SWD line	Date and Hour of Occurrence	02/02/2016	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?	Kellie Jones, Jamie Keyes- NMOCD		
By Whom?	Kathy Purvis @ BBC International, Inc.	Date and Hour	02/03/2016 @ 3:46 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.\*

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Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 150' x 40' by the right of way. Remediation was completed in accordance with the remediation plan approved by Jamie Keyes of NMOCD via email on 04/07/2016.

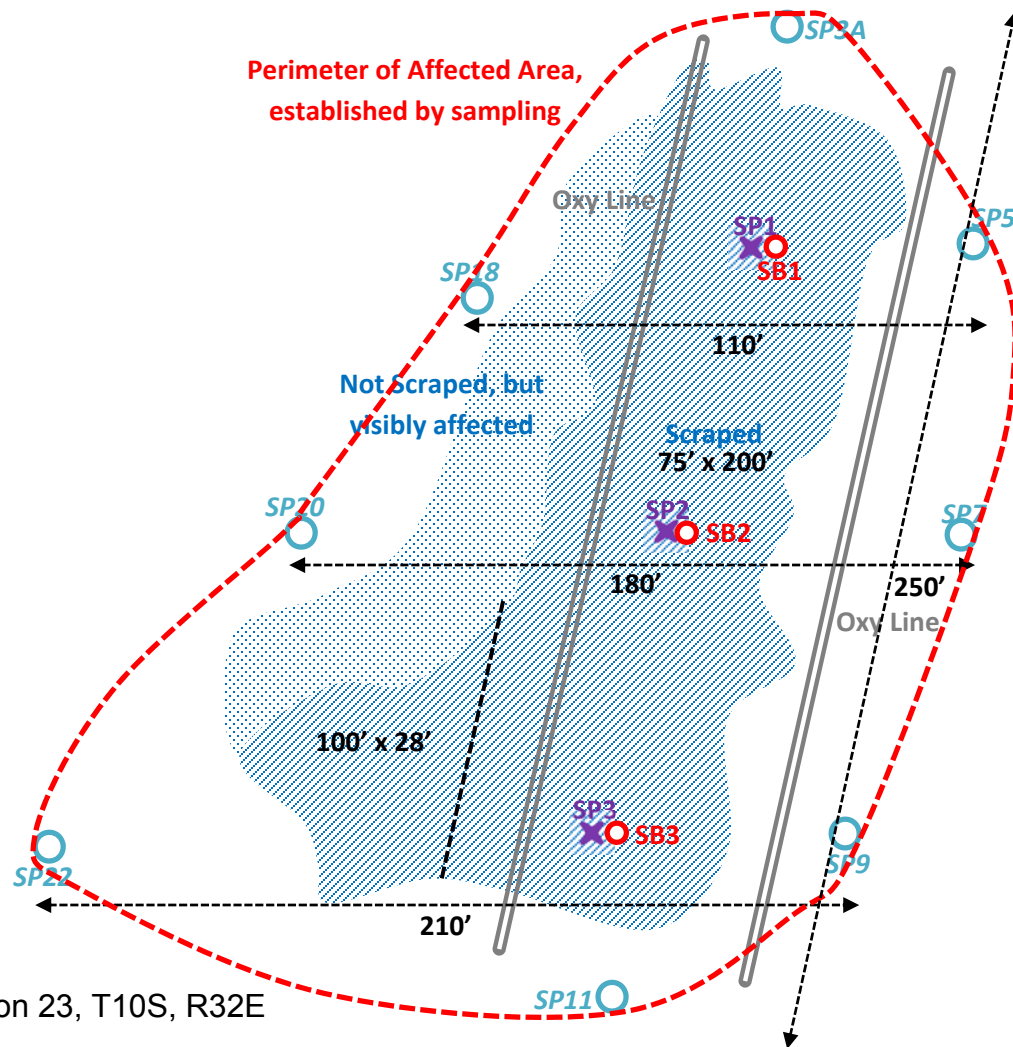
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist: <i>Jamie Keyes</i>		
Title: NM Environmental Advisor	Approval Date: 05/24/2016	Expiration Date: ///	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval: ///	Attached <input type="checkbox"/> IRP 4179	
Date: 5-19-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary



Oxy  
State II-23 Battery (2/2/16)



U/L D, Section 23, T10S, R32E

Lea County, NM

N 33.43878° W 103.64761

API# 30-025-20501

BBC International, Inc.

Oxy  
State II-23 Battery

Date: 02/10/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016





# Groundwater Plot

## Oxy State II-23 Battery

County  
Lea

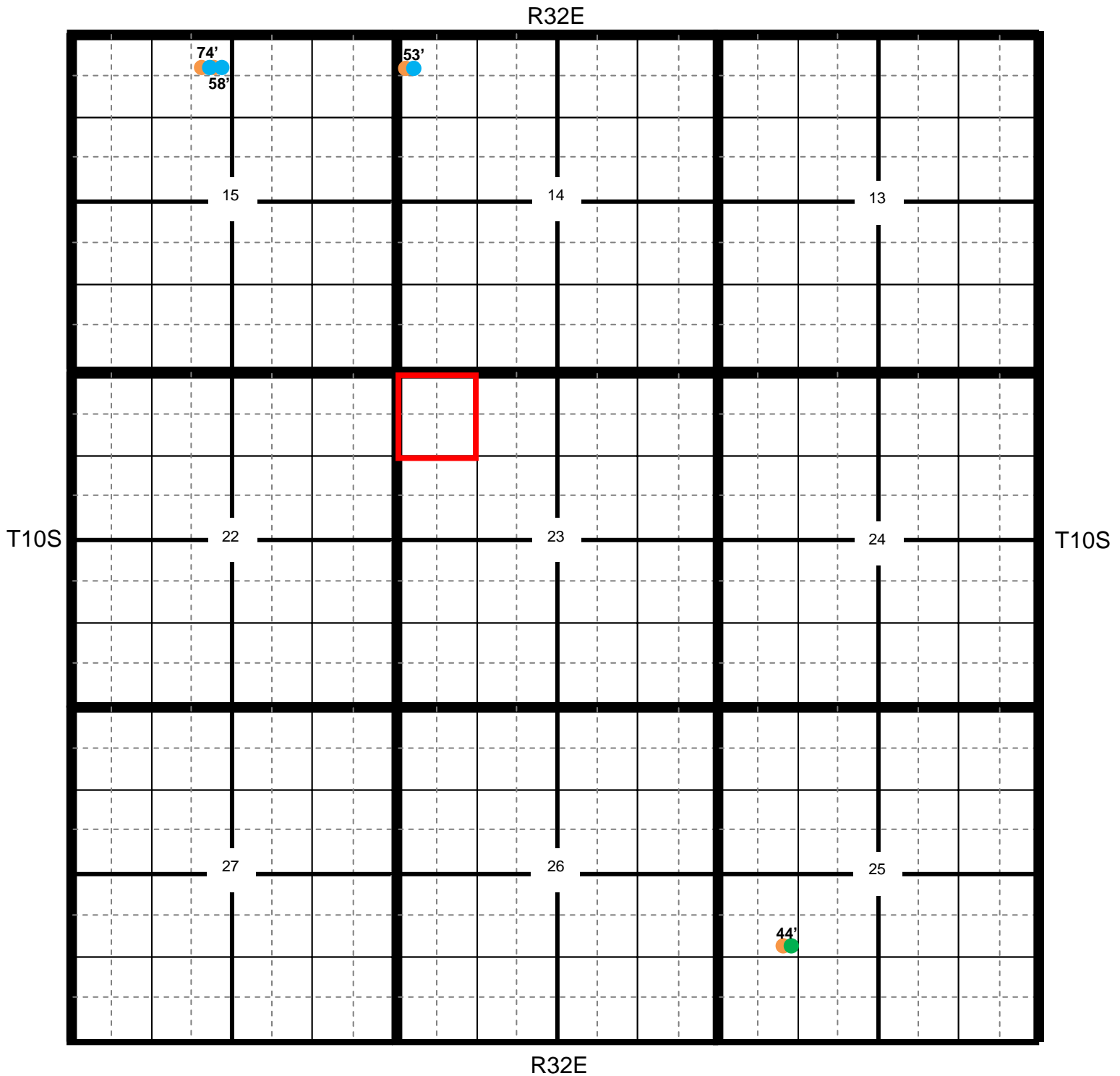
Unit Letter  
D

Section  
23

Township  
10S

Range  
32E

Trend Map <50'



Location

OCD

USGS

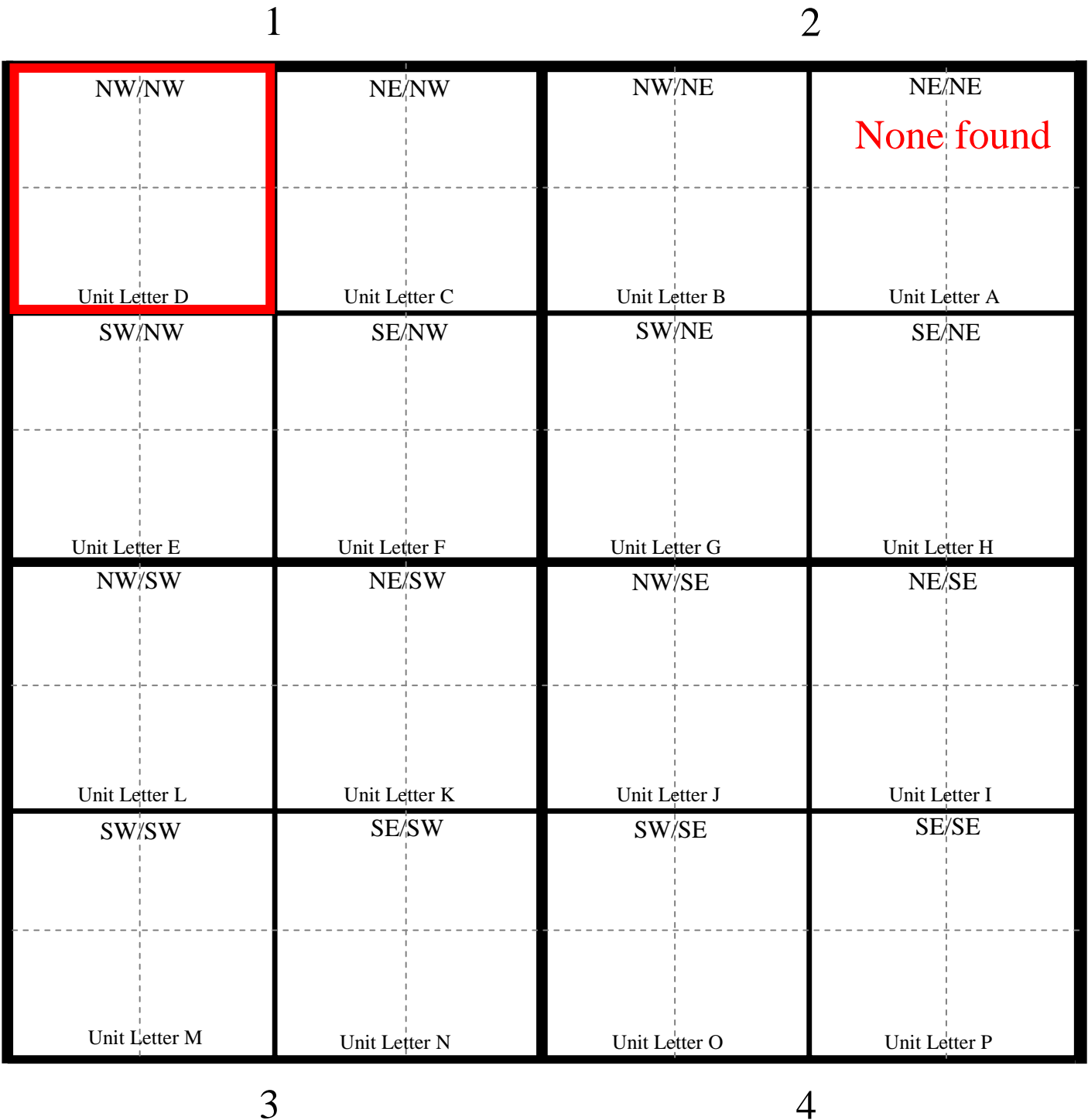
SEO

All Databases

# Oxy State II-23 Battery

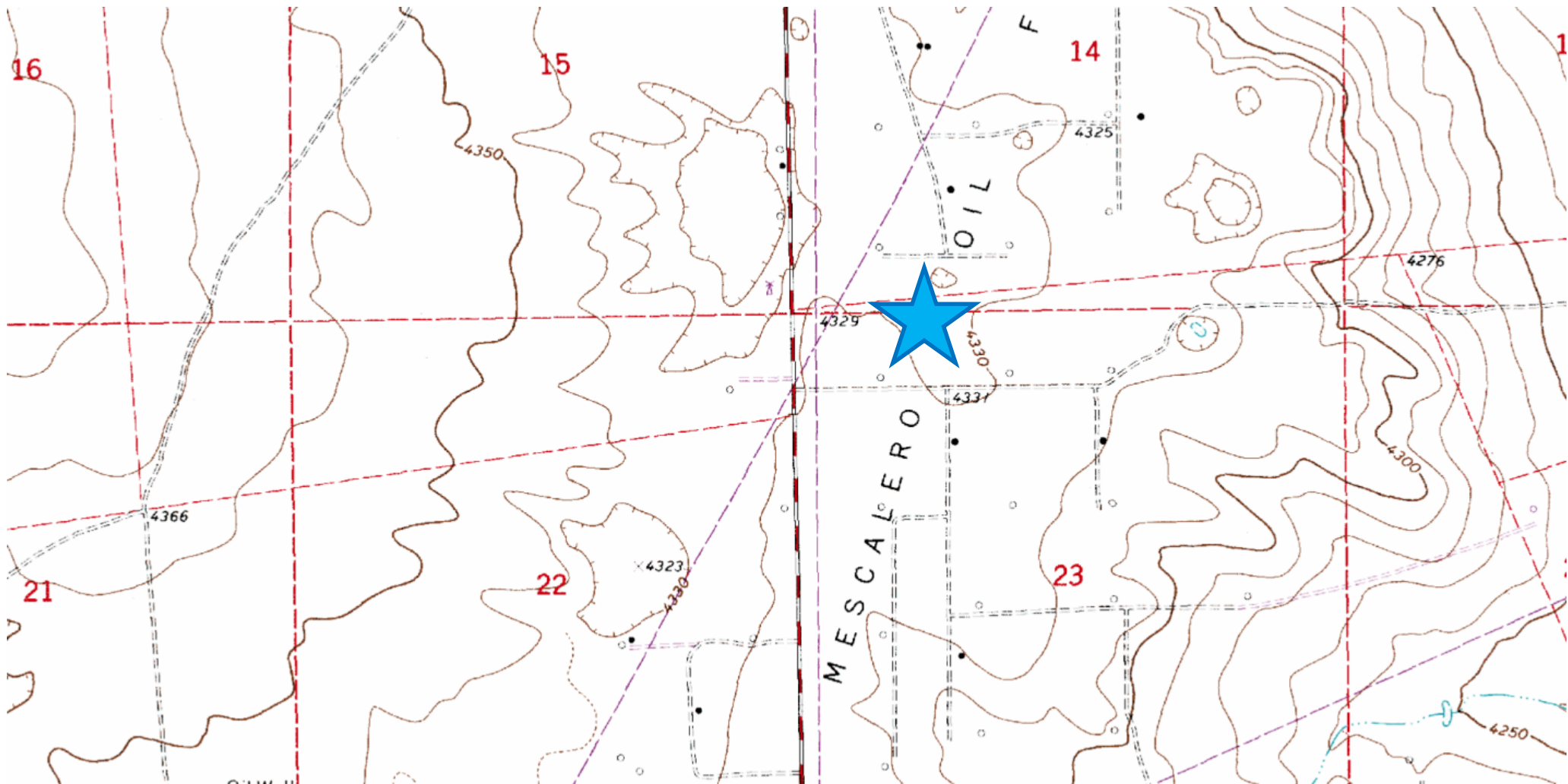
<b>County</b> Lea	<b>Unit Letter</b> D	<b>Section</b> 23	<b>Township</b> 10S	<b>Range</b> 32E
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Trend Map <50'



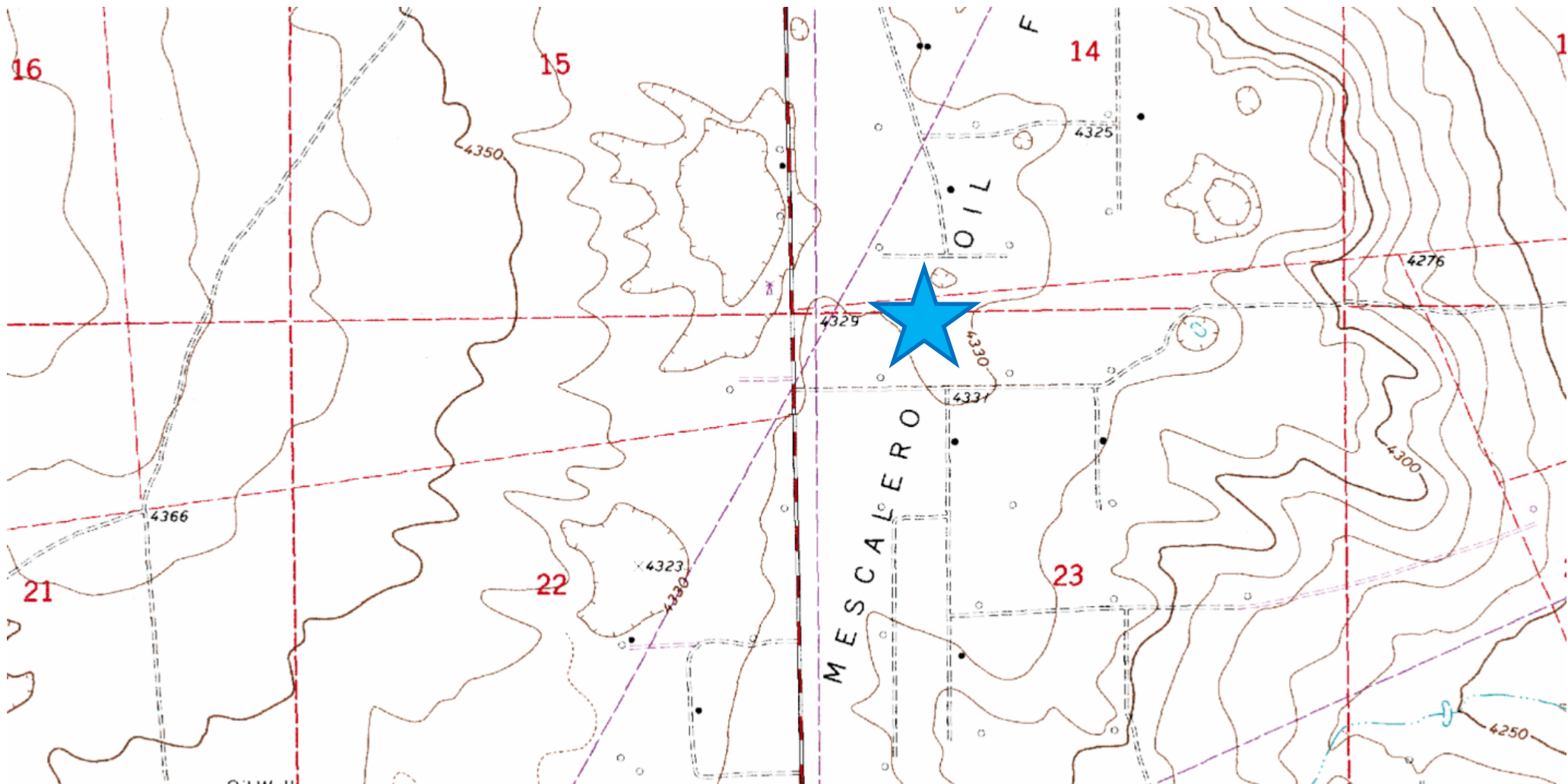
Oxy

## State II-23 Battery



Oxy

## State II-23 Battery





**Laboratory Analytical Results Summary  
State II-23 Battery**

		Sample	SB1 @ 5'	SB1 @ 6'	SB1 @ 7'
Analyte	Method	Date	2/15/16	2/15/16	2/15/16
			mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>464</b>	<b>144</b>	<b>112</b>

		Sample	SB2 @ 5'	SB2 @ 8'	SB2 @ 11'	SB2 @ 15'	SB2 @ 18'	SB2 @ 20'	SB2 @ 25'	SB2 @ 27'	SB2 @ 28'
Analyte	Method	Date	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16	2/15/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>11000</b>	<b>16600</b>	<b>17600</b>	<b>18400</b>	<b>10800</b>	<b>6400</b>	<b>912</b>	<b>160</b>	<b>32</b>

		Sample	SB3 @ 5'	SB3 @ 8'	SB3 @ 11'	SB3 @ 15'	SB3 @ 18'	SB3 @ 20'	SB3 @ 21'
Analyte	Method	Date	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>22000</b>	<b>6260</b>	<b>13000</b>	<b>1840</b>	<b>256</b>	<b>48</b>	<b>192</b>

**Laboratory Analytical Results Summary  
State II-23 Battery**

		Sample	SP3A @ SURFACE	SP3A @ 1'	SP3A @ 2.5'	SP3A @ 3'
Analyte	Method	Date	2/17/16	2/17/16	2/17/16	2/17/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		58400	3360	112	1010

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	2/17/16	2/17/16	2/17/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		112	<16.0	176

		Sample	SP7 @ SURFACE	SP7 @ 1'
Analyte	Method	Date	2/17/16	2/17/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		80	<16.0

		Sample	SP9 @ SURFACE	SP9 @ 2'
Analyte	Method	Date	2/18/16	2/18/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		272	128

		Sample	SP11 @ SURFACE	SP11 @ 2'	SP11 @ 2.5'
Analyte	Method	Date	2/18/16	2/18/16	2/18/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		896	384	160

		Sample	SP12 @ SURFACE	SP12 @ 2'	SP12 @ 2.5'
Analyte	Method	Date	2/18/16	2/18/16	2/18/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		32000	144	160

		Sample	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 2'
Analyte	Method	Date	2/18/16	2/18/16	2/18/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		80	1230	128

		Sample	SP18 @ SURFACE	SP18 @ 1'
Analyte	Method	Date	2/19/16	2/19/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		80	48

		Sample	SP20 @ SURFACE	SP20 @ 1'
Analyte	Method	Date	2/19/16	2/19/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		32	<16.0

		Sample	SP22 @ SURFACE	SP22 @ 1'
Analyte	Method	Date	2/19/16	2/19/16
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		192	80

**Laboratory Analytical Results Summary  
State II-23 Battery**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	2/5/16	2/5/16	2/5/16	2/5/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.05</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>86000</b>	<b>39600</b>	<b>20400</b>	<b>20400</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	2/5/16	2/5/16	2/5/16	2/5/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.07</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.07</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.051</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>122000</b>	<b>22400</b>	<b>21600</b>	<b>13500</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	2/5/16	2/5/16	2/5/16	2/5/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<b>0.114</b>	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<b>0.093</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>98600</b>	<b>30400</b>	<b>12500</b>	<b>4400</b>
<b>Chloride</b>	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0

February 23, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE II-23 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/16 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 02/17/2016  
Reported: 02/23/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/15/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 5' (H600377-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 1 @ 6' (H600377-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 1 @ 7' (H600377-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 2 @ 5' (H600377-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	02/22/2016	ND	448	112	400	11.3	

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: (575) 397-0397

Received: 02/17/2016  
Reported: 02/23/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/15/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 8' (H600377-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16600	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 2 @ 11' (H600377-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 2 @ 15' (H600377-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 2 @ 18' (H600377-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 2 @ 20' (H600377-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	02/22/2016	ND	448	112	400	11.3	

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: (575) 397-0397

 Received: 02/17/2016  
 Reported: 02/23/2016  
 Project Name: STATE II-23 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: TATUM, NM

 Sampling Date: 02/15/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 25' (H600377-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 2 @ 27' (H600377-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 2 @ 28' (H600377-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2016	ND	448	112	400	11.3	

**Sample ID: SP 3 @ 5' (H600377-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	02/22/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 8' (H600377-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	02/22/2016	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: (575) 397-0397

 Received: 02/17/2016  
 Reported: 02/23/2016  
 Project Name: STATE II-23 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: TATUM, NM

 Sampling Date: 02/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 11' (H600377-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	02/22/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 15' (H600377-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	02/22/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 18' (H600377-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/22/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 20' (H600377-18)**

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	02/22/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 21' (H600377-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/22/2016	ND	416	104	400	0.00	

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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

1 of 2

### BILL TO

### ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: State II 23 City

Project Location:

Sample Name: Jeff Omedas

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H1600371

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV	SAMPLING	DATE	TIME	CL						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE											
1	SB 105	✓	1	✓							2/5/6	1145	✓						
2	SB 106	✓	1	✓							2/5/6	1200	✓						
3	SB 107	✓	1	✓							2/5/6	1210	✓						
4	SB 205	✓	1	✓							2/5/6	125	✓						
5	SB 208	✓	1	✓							2/5/6	140	✓						
6	SB 2011	✓	1	✓							2/5/6	205	✓						
7	SB 2015	✓	1	✓							2/5/6	230	✓						
8	SB 2018	✓	1	✓							2/5/6	255	✓						
9	SB 2020	✓	1	✓							2/5/6	300	✓						
10	SB 2025	✓	1	✓							2/5/6	335	✓						

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Relinquished By:

Date: 2/17/6

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date: 2/17/6

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 2/17/6

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date: 2/17/6

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

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

#54





February 24, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE II-23 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/22/16 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 02/22/2016  
Reported: 02/24/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/17/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3A @ SURFACE (H600402-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	58400	16.0	02/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 3A @ 1' (H600402-02)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	02/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 3A @ 2.5' (H600402-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 3A @ 3' (H600402-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	02/23/2016	ND	416	104	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: (575) 397-0397

 Received: 02/22/2016  
 Reported: 02/24/2016  
 Project Name: STATE II-23 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: TATUM, NM

 Sampling Date: 02/17/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ SURFACE (H600402-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/23/2016	ND	416	104	400	0.00		

**Sample ID: SP 5 @ 1' (H600402-06)**

Chloride, SM4500CI-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	02/23/2016	ND	416	104	400	0.00		

**Sample ID: SP 5 @ 2' (H600402-07)**

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	02/23/2016	ND	416	104	400	0.00		

**Sample ID: SP 7 @ SURFACE (H600402-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 7 @ 1' (H600402-09)**

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	02/23/2016	ND	416	104	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: 02/22/2016  
Reported: 02/24/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 9 @ SURFACE (H600402-10)**

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	02/23/2016	ND	416	104	400	0.00		

**Sample ID: SP 9 @ 2' (H600402-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 11 @ SURFACE (H600402-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	02/23/2016	ND	416	104	400	0.00		

**Sample ID: SP 11 @ 2' (H600402-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 11 @ 2.5' (H600402-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/23/2016	ND	416	104	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: 02/22/2016  
 Reported: 02/24/2016  
 Project Name: STATE II-23 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: TATUM, NM

 Sampling Date: 02/18/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 12 @ SURFACE (H600402-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32000	16.0	02/23/2016	ND	416	104	400	0.00		

**Sample ID: SP 12 @ 2' (H600402-16)**

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	02/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 12 @ 2.5' (H600402-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 13 @ SURFACE (H600402-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 13 @ 1' (H600402-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	02/23/2016	ND	448	112	400	3.64	

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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:	02/22/2016	Sampling Date:	02/18/2016
Reported:	02/24/2016	Sampling Type:	Soil
Project Name:	STATE II-23 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	TATUM, NM		

**Sample ID: SP 13 @ 2' (H600402-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/23/2016	ND	448	112	400	3.64	

**Sample ID: SP 18 @ SURFACE (H600402-21)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/23/2016	ND	448	112	400	3.64	

**Sample ID: SP 18 @ 1' (H600402-22)**

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	02/23/2016	ND	448	112	400	3.64	

**Sample ID: SP 20 @ SURFACE (H600402-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/23/2016	ND	448	112	400	3.64	

**Sample ID: SP 20 @ 1' (H600402-24)**

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	02/23/2016	ND	448	112	400	3.64		

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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: 02/22/2016  
Reported: 02/24/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/19/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 22 @ SURFACE (H600402-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/23/2016	ND	448	112	400	3.64		

**Sample ID: SP 22 @ 1' (H600402-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/23/2016	ND	448	112	400	3.64	

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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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### BILL TO

### ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

Relinquished By:

Date:

Received By:

Phone Result:

Yes

No

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date:

Received By:

Phone Result:

Yes

No

Yes

No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

CHECKED BY:

(Initials)

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









**CARDINAL LABORATORIES**

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/3

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: State II-23 Battery

Project Location: 12th Avenue

Sampler Name: Cliff Brunson

P.O. #:

Company:

Attn: Jimmy

Address:

City:

State:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H000402

21

22

23

24

25

26

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

2-19

11:50

11:51

11:55

11:55

11:55

11:55

11:55

11:55

11:55

11:55

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Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Date: 2-19-16

Time: 3:00pm

Date: 2-19-16

Time: 2:30pm

Date: 2-19-16

Time: 2:30pm

Received By:

Received By:

Received By:

Received By:

Received By:

Received By:

Sample Condition

Sample Condition

Sample Condition

Sample Condition

Sample Condition

Sample Condition

Cool / Intact

Cool / Intact

Cool / Intact

Cool / Intact

Cool / Intact

Cool / Intact

Yes

Yes

Yes

Yes

Yes

Yes

No

No

No

No

No

No

Checked By:

Checked By:

Checked By:

Checked By:

Checked By:

Checked By:

Phone Result:

Phone Result:

Phone Result:

Phone Result:

Phone Result:

Phone Result:

Yes

Yes

Yes

Yes

Yes

Yes

No

No

No

No

No

No

Add'l Phone #:

Add'l Phone #:

Add'l Phone #:

Add'l Phone #:

Add'l Phone #:

Add'l Phone #:

Fax Result:

Fax Result:

Fax Result:

Fax Result:

Fax Result:

Fax Result:

Yes

Yes

Yes

Yes

Yes

Yes

No

No

No

No

No

No

Add'l Fax #:

Add'l Fax #:

Add'l Fax #:

Add'l Fax #:

Add'l Fax #:

Add'l Fax #:

REMARKS:

REMARKS:

REMARKS:

REMARKS:

REMARKS:

REMARKS:

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





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

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February 08, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE II-23 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/05/16 17:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	02/05/2016	Sampling Date:	02/05/2016
Reported:	02/08/2016	Sampling Type:	Soil
Project Name:	STATE II-23 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	TATUM, NM		

**Sample ID: SP 1 @ SURFACE (H600271-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.050</b>	0.050	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>86000</b>	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 76.4 % 35-147

Surrogate: 1-Chlorooctadecane 83.7 % 28-171

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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H600271-02)**

BTX 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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	39600	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 72.1 % 35-147

Surrogate: 1-Chlorooctadecane 77.6 % 28-171

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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: 02/05/2016  
 Reported: 02/08/2016  
 Project Name: STATE II-23 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: TATUM, NM

 Sampling Date: 02/05/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H600271-03)**

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEx	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 83.4 % 35-147

Surrogate: 1-Chlorooctadecane 91.6 % 28-171

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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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H600271-04)**

BTX 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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 83.8 % 35-147

Surrogate: 1-Chlorooctadecane 89.6 % 28-171

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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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H600271-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.070	0.050	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	0.070	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	0.051	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	122000	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 83.2 % 35-147

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H600271-06)**

BTX 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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 78.9 % 35-147

Surrogate: 1-Chlorooctadecane 84.7 % 28-171

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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H600271-07)**

BTX 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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 83.5 % 35-147

Surrogate: 1-Chlorooctadecane 91.9 % 28-171

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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H600271-08)**

BTX 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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13500	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 83.4 % 35-147

Surrogate: 1-Chlorooctadecane 89.4 % 28-171

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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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ SURFACE (H600271-09)**

BTX 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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	98600	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 80.3 % 35-147

Surrogate: 1-Chlorooctadecane 87.7 % 28-171

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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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H600271-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.114	0.050	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	0.093	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30400	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 84.2 % 35-147

Surrogate: 1-Chlorooctadecane 94.5 % 28-171

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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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H600271-11)**

BTX 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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 79.3 % 35-147

Surrogate: 1-Chlorooctadecane 85.6 % 28-171

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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: 02/05/2016  
Reported: 02/08/2016  
Project Name: STATE II-23 BATTERY  
Project Number: NONE GIVEN  
Project Location: TATUM, NM

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H600271-12)**

BTX 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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	02/08/2016	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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 81.5 % 35-147

Surrogate: 1-Chlorooctadecane 87.6 % 28-171

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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





# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### BILL TO

### ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Zip:

Lab I.D.

Sample I.D.

H000271

SP10304

SP20304

SP20304

SP20304

SP20304

SP20304

SP20304

SP20304

SP20304

SP20304

SP20304

SP20304

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

CHECKED BY:

(Initials)

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

#54





# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX  
TPH  
Cl-

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Relinquished By:

Date: 2-5-16  
Time: 5:10  
Received By: Cliff Brunson

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☒ Intact ☒  
Yes ☒ No ☒

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

RESTH!!

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

#54



## Kathy Purvis

---

**From:** Keyes, Jamie, EMNRD <Jamie.Keyes@state.nm.us>  
**Sent:** Thursday, April 07, 2016 7:51 AM  
**To:** Cliff Brunson  
**Cc:** Casey Summers; Dusty Wilson; Jennifer\_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Amber Groves; Kathy Purvis  
**Subject:** RE: OXY-State II-23 Battery-Remediation Plan

Good morning,

The work plan is approved.

Thank you,

Jamie

---

**From:** Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Wednesday, April 06, 2016 8:32 PM  
**To:** Keyes, Jamie, EMNRD; Amber Groves  
**Cc:** Casey Summers; Dusty Wilson; [Jennifer\\_Duarte@oxy.com](mailto:Jennifer_Duarte@oxy.com); Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-State II-23 Battery-Remediation Plan

Jamie and Amber,

This email is to confirm our conversation on Monday, April 4, 2016 concerning the remediation plan for the Oxy State II-23 Battery leak. As agreed upon, Oxy will excavate the leak area to a depth of 2 feet or as practicable around the unknown (orphan) line. There is a concern around this line since no ownership has been identified and the condition of the line is unknown. Therefore, for safety reasons, conditions may alter the excavation around this line. Oxy will then place a 20 mil liner in the bottom of the excavation and backfill the entire excavation with clean top soil supplied by the Johnson's. During the course of the remediation, Oxy will have the flexibility to adjust the horizontal size of the of the leak area by utilizing the use of field screening for chlorides to guide the excavation edges. This information, if used, will be provided in the final report.

Oxy will add straw/hay to the top soil to assist in anchoring the top soil for erosion control due to winds primarily. The area will not be reseeded according to the Johnson's request. Natural seeding will be allowed.

In addition, Oxy is working on the ownership and movement/removal of the lines in the leak area that Oxy has control over. The attached remediation plan has all of the materials that we used in our discussion.

I appreciate your assistance in this project. Oxy will keep you informed of the progress and timeline of the remediation. 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:  
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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No virus found in this message.

Checked by AVG - [www.avg.com](http://www.avg.com)

Version: 2015.0.6189 / Virus Database: 4545/11981 - Release Date: 04/07/16











