

# Closure Report

## Site Description

Site Name:	Neff Federal #1 & #3 SWD Battery
Company:	Oxy Permian Ltd.
Legal Description:	NW ¼, Section 25, T22S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.36754° W 103.73356°

## Release Data

Date of Release:	03/17/2014
Type of Release:	Oil and produced water
Source of Release:	High winds caused power pole trip which lead to tank spill
Volume of Release:	4 bbls oil, 400 bbls produced water
Volume Recovered:	400 bbls

## Remediation Specifications

Remediation Parameters:	Excavate to a depth of 6" in the areas of SP1 & SP2. Obtain a bottom confirmation sample at SP2. Excavate 3'-4' in the area around SP3 & install a liner in this area. Excavate to a depth of 1' in the area of SP4. Clean the liner inside the battery. Backfill excavated areas with clean soil.
Remediation Activities:	11/19/2014 to 12/15/2014

Plan Sent to OCD:	08/14/2014	Email from Cliff Brunson to Heather Patterson
OCD Approval of Plan:	08/20/2014	Email from Heather Patterson to Cliff Brunson
Plan Sent to BLM:	08/28/2014	Email from Cliff Brunson to Sol Hughes
BLM Approval of Plan:	08/29/2014	Email from Sol Hughes to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 03/18/2014
Final C-141	Signed 01/07/2015
Site Diagram	March 2014
Groundwater Plot	175'-200'
TOPO Maps	March 2014
Lab Summary	04/18/2014-04/21/2014 and 11/26/2014
Lab Analysis	04/18/2014-04/21/2014 and 11/26/2014
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.

01/08/2015

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	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Neff Federal #1 and #3 SWD Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API No.30-015-28281(nearest well)

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	25	22S	31E					Eddy County, NM

Latitude N 32.367782° Longitude W 103.733851°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	4 bbls oil, 400 bbls produced water	Volume Recovered	400 bbls
Source of Release	High winds caused power pole trip which lead to the tanks spilling over	Date and Hour of Occurrence	03/17/2014	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 and Jennifer VanCuren, BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	03/18/2014 @ 9:24 am		
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.\*

High winds caused the power pole line fuse to trip which lead to the tanks overflowing and spilling 400 bbls of produced water and 4 bbls of oil onto the ground. A vacuum truck recovered 400 bbls of fluids and the power was restored to the battery location.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is 20' x 60' inside the containment area and 15' x 20' outside the containment area. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>3-18-14</u> Phone: (575) 397-8216			

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
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District III  
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Form C-141  
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Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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Facility Name	Neff Federal #1 and #3 SWD Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
			API No.30-015-28281(nearest well)

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	25	22S	31E					Eddy County, NM

Latitude N 32.367782° Longitude W 103.733851°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	4 bbls oil, 400 bbls produced water	Volume Recovered	400 bbls
Source of Release	High winds caused power pole trip which lead to the tanks spilling over	Date and Hour of Occurrence	03/17/2014	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 and Jennifer VanCuren, BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	03/18/2014 @ 9:24 am		
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.\*

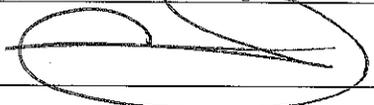
Describe Cause of Problem and Remedial Action Taken.\*

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Describe Area Affected and Cleanup Action Taken.\*

The affected area is 20' x 60' inside the containment area and 15' x 20' outside the containment area. Remediation was completed in accordance with the remediation plan approved by Heather Patterson of NMOCD 08/20/2014 and approved by Sol Hughes of the BLM via email on 08/29/2014.

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: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>1-7-15</u> Phone: (575) 397-8216			

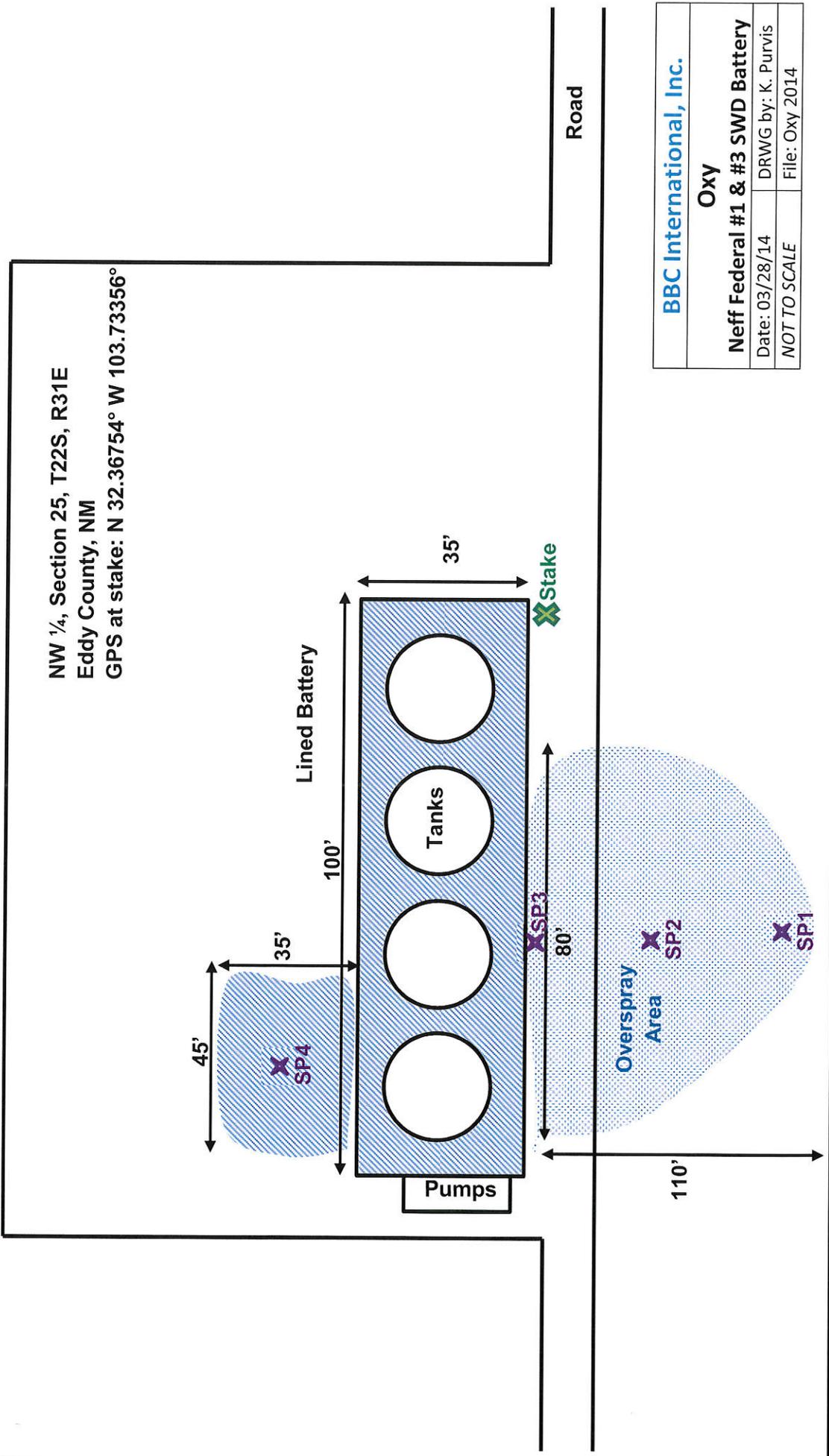
\* Attach Additional Sheets If Necessary

Oxy

# Neff Federal #1 and #3 SWD Battery



NW 1/4, Section 25, T22S, R31E  
Eddy County, NIM  
GPS at stake: N 32.36754° W 103.73356°



<b>BBC International, Inc.</b>	
<b>Oxy</b>	
<b>Neff Federal #1 &amp; #3 SWD Battery</b>	
Date: 03/28/14	DRWG by: K. Purvis
NOT TO SCALE	
File: Oxy 2014	

# Groundwater Plot

## Oxy Neff Federal #1 & #3 SWD Battery

County  
Eddy

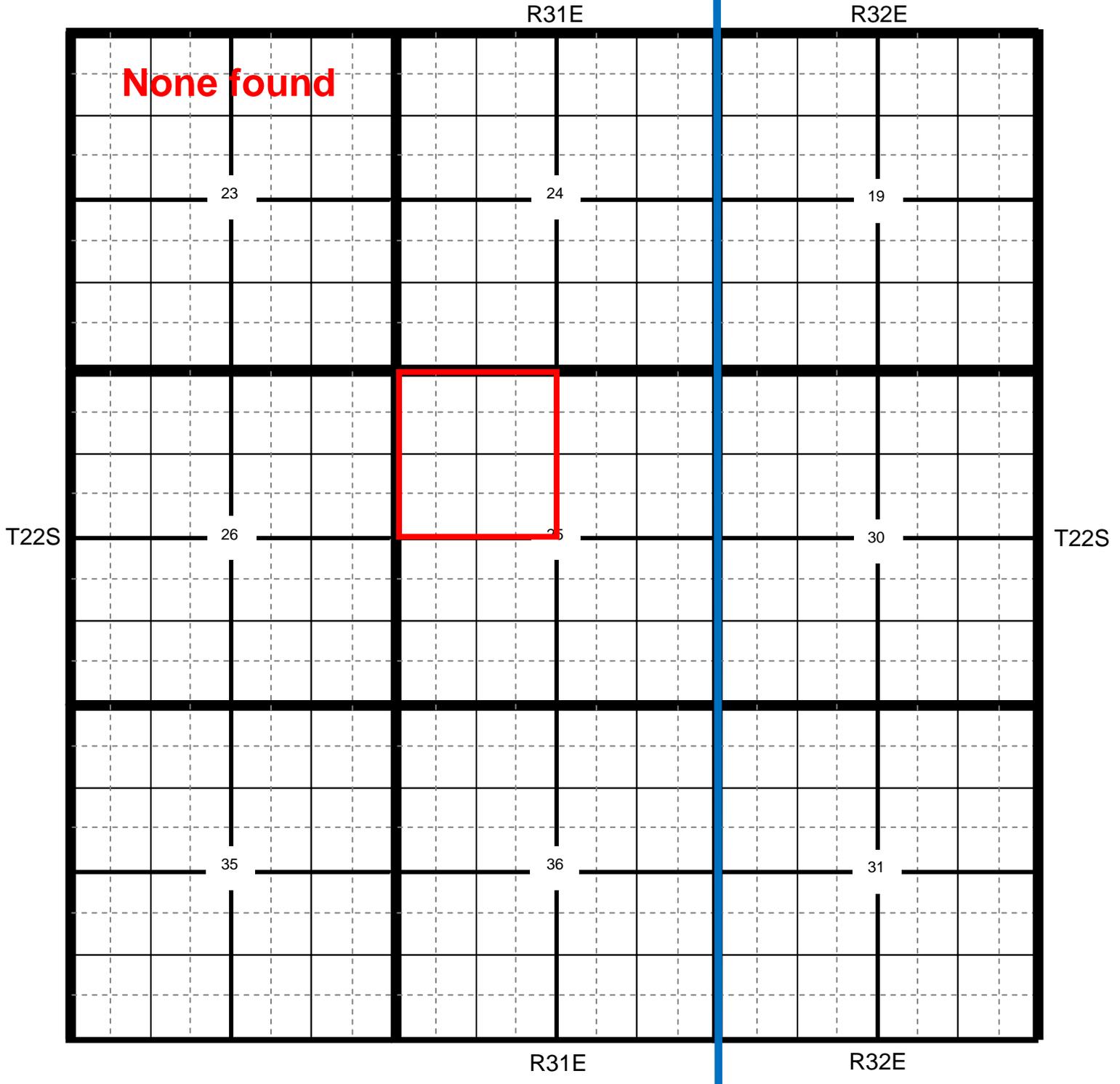
Unit Letter  
NW ¼

Section  
25

Township  
22S

Range  
31E

Trend Map 175'-200'



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Neff Federal #1 & #3 SWD Battery

County Eddy      Unit Letter NW ¼      Section 25      Township 22S      Range 31E

Trend Map 175'-200'

1

2

NW/NW	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

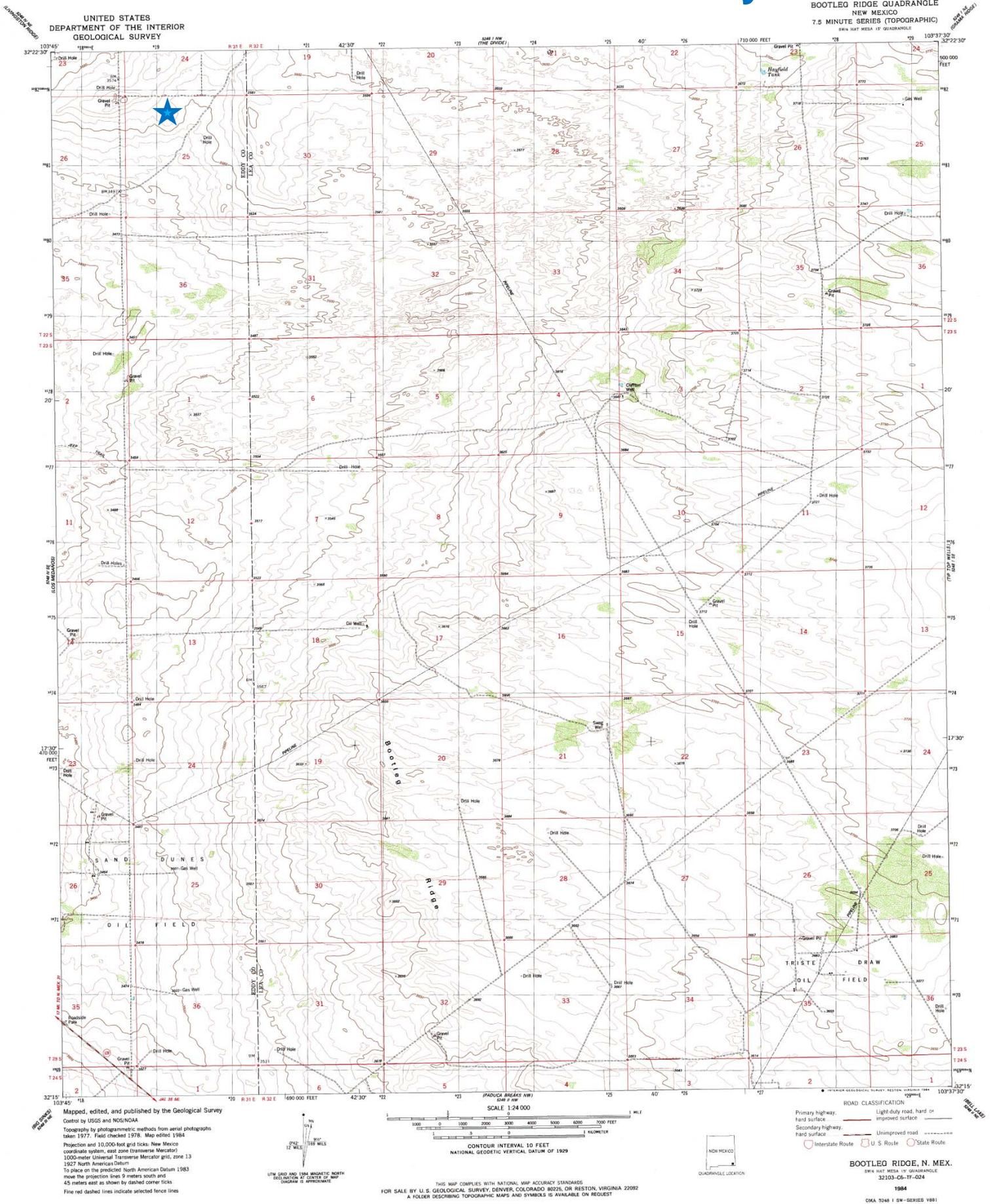
**None found**

3

4

# Oxy

## Neff Fed #1 & #3 SWD Btry



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

BOOTLEG RIDGE QUADRANGLE  
NEW MEXICO  
7.5 MINUTE SERIES (TOPOGRAPHIC)  
SIX HAT MESA 10' QUADRANGLE

Mapped, edited, and published by the Geological Survey  
Control by USGS and MICHONAK  
Topography by photogrammetric methods from aerial photographs taken 1977. Field checked 1978. Map edited 1984  
Projection and 10,000-foot grid ticks: New Mexico coordinate system, east zone (transverse Mercator)  
1000-meter Universal Transverse Mercator grid, zone 13 1927 North American Datum  
To place on the projected North American Datum 1983 move the projection lines 9 meters south and 4.5 meters east as shown by dashed corner ticks.  
Fine red dashed lines indicate selected fence lines

SCALE 1:24,000  
CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

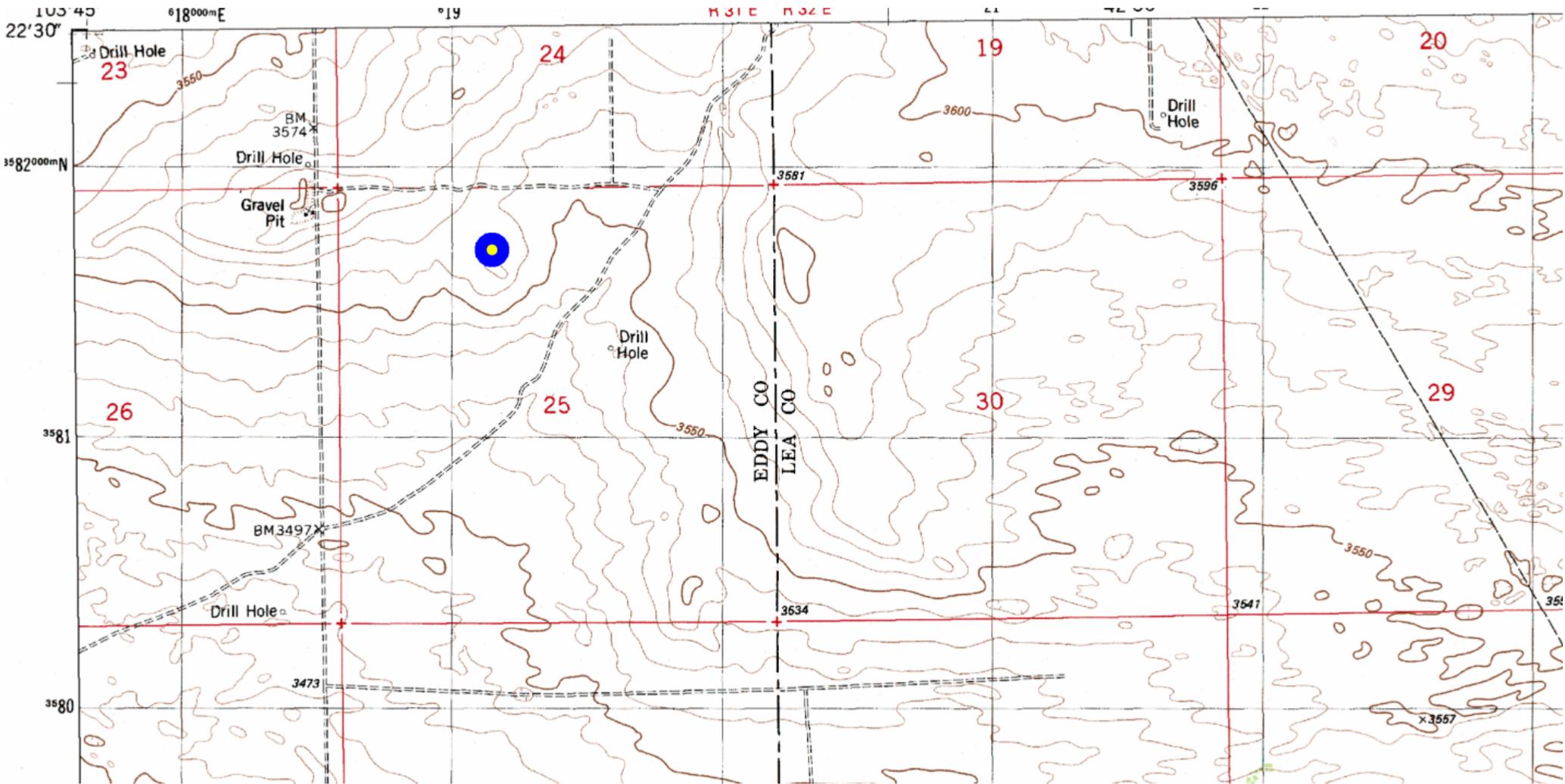
ROAD CLASSIFICATION  
Primary highway, hard surface  
Secondary highway, hard surface  
Interstate Route  
U.S. Route  
State Route  
Light-duty road, hard or improved surface  
Unimproved road  
U.S. Route  
State Route

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

BOOTLEG RIDGE, N. MEX.  
SIX HAT MESA 10' QUADRANGLE  
32103-C6-17-024  
1984  
GMA 5248 1 SW-SERIES V881

# Oxy

## Neff Fed #1 & #3 SWD Btry



**Laboratory Analytical Results Summary**  
**Neff Federal #1 and #3 SWD Battery**

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	4/18/14	4/18/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	<0.050
<b>Toluene</b>	BTEX 8021B		n/a	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		n/a	<0.050
<b>Total Xylenes</b>	BTEX 8021B		n/a	<0.150
<b>Total BTEX</b>	BTEX 8021B		n/a	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>384</b>	<16.0
<b>GRO</b>	TPH 8015M		n/a	<10.0
<b>DRO</b>	TPH 8015M		n/a	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	4/18/14	4/18/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	<0.050
<b>Toluene</b>	BTEX 8021B		n/a	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		n/a	<0.050
<b>Total Xylenes</b>	BTEX 8021B		n/a	<0.150
<b>Total BTEX</b>	BTEX 8021B		n/a	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>1230</b>	<b>80</b>
<b>GRO</b>	TPH 8015M		n/a	<10.0
<b>DRO</b>	TPH 8015M		n/a	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 9'	SP3 @ 12'	SP3 @ 14'
Analyte	Method	Date	4/18/14	4/18/14	4/18/14	4/21/14	4/21/14	4/21/14	4/21/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<0.050	<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.200	<0.050	<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.200	<0.050	<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.600	<0.150	<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<1.20	<0.300	<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>9860</b>	<b>192</b>	<b>10800</b>	<b>2000</b>	<b>2800</b>	<b>2000</b>	<b>240</b>
<b>GRO</b>	TPH 8015M		<200	<10.0	<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>12800</b>	<10.0	<b>35.1</b>	n/a	n/a	n/a	n/a

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'
Analyte	Method	Date	4/18/14	4/18/14	4/18/14	4/21/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<0.050	<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.200	<0.050	<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.200	<0.050	<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.600	<0.150	<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<1.20	<0.300	<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>10900</b>	<b>448</b>	<b>784</b>	<b>176</b>
<b>GRO</b>	TPH 8015M		<200	<10.0	<10.0	n/a
<b>DRO</b>	TPH 8015M		<b>14700</b>	<10.0	<10.0	n/a

**Laboratory Analytical Results Summary**  
**Neff Federal #1 #3 SWD Battery**

<b>Confirmation</b>		<b>Sample</b>	<b>SP2 @ 6"</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	11/26/14
			mg/Kg
<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



May 01, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NEFF FEDERAL #1 & #3 SWD BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/24/14 12:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 cursive script that reads "Celey D. Keene".

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:	04/24/2014	Sampling Date:	04/18/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ SURFACE (H401235-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/25/2014	ND	416	104	400	0.00	

**Sample ID: SP 1 @ 1' (H401235-02)**

BTEX 8260B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2014	ND	2.35	118	2.00	6.15	
Toluene*	<0.050	0.050	04/29/2014	ND	2.13	106	2.00	8.09	
Ethylbenzene*	<0.050	0.050	04/29/2014	ND	2.03	102	2.00	7.15	
Total Xylenes*	<0.150	0.150	04/29/2014	ND	6.25	104	6.00	8.15	
Total BTEX	<0.300	0.300	04/29/2014	ND					

*Surrogate: Dibromofluoromethane*      96.2 %      61.3-142

*Surrogate: Toluene-d8*      99.8 %      71.3-129

*Surrogate: 4-Bromofluorobenzene*      101 %      65.7-141

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	04/25/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2014	ND	186	92.9	200	11.1	
DRO >C10-C28	<10.0	10.0	04/25/2014	ND	207	103	200	12.5	

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:	04/24/2014	Sampling Date:	04/18/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ 1' (H401235-02)**

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane	111 %	65.2-140							
Surrogate: 1-Chlorooctadecane	108 %	63.6-154							

**Sample ID: SP 2 @ SURFACE (H401235-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1230</b>	16.0	04/25/2014	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey 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:	04/24/2014	Sampling Date:	04/18/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 1' (H401235-04)**

BTEX 8260B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2014	ND	2.35	118	2.00	6.15		
Toluene*	<0.050	0.050	04/29/2014	ND	2.13	106	2.00	8.09		
Ethylbenzene*	<0.050	0.050	04/29/2014	ND	2.03	102	2.00	7.15		
Total Xylenes*	<0.150	0.150	04/29/2014	ND	6.25	104	6.00	8.15		
Total BTEX	<0.300	0.300	04/29/2014	ND						

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

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>80.0</b>	16.0	04/25/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2014	ND	187	93.6	200	2.79		
DRO >C10-C28	<10.0	10.0	04/25/2014	ND	202	101	200	2.79		

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 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:	04/24/2014	Sampling Date:	04/18/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ SURFACE (H401235-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/30/2014	ND	2.06	103	2.00	5.94	
Toluene*	<0.200	0.200	04/30/2014	ND	2.06	103	2.00	6.37	
Ethylbenzene*	<0.200	0.200	04/30/2014	ND	2.06	103	2.00	6.68	
Total Xylenes*	<0.600	0.600	04/30/2014	ND	6.18	103	6.00	6.99	
Total BTEX	<1.20	1.20	04/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>9860</b>	16.0	04/25/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	04/25/2014	ND	187	93.6	200	2.79		
<b>DRO &gt;C10-C28</b>	<b>12800</b>	200	04/25/2014	ND	202	101	200	2.79		

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 425 % 63.6-154

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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:	04/24/2014	Sampling Date:	04/18/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ 1' (H401235-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2014	ND	2.06	103	2.00	5.94	
Toluene*	<0.050	0.050	04/30/2014	ND	2.06	103	2.00	6.37	
Ethylbenzene*	<0.050	0.050	04/30/2014	ND	2.06	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	04/30/2014	ND	6.18	103	6.00	6.99	
Total BTEX	<0.300	0.300	04/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	04/25/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2014	ND	187	93.6	200	2.79	
DRO >C10-C28	<10.0	10.0	04/25/2014	ND	202	101	200	2.79	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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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:	04/24/2014	Sampling Date:	04/18/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ 3' (H401235-07)**

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	04/30/2014	ND	2.06	103	2.00	5.94	
Toluene*	<0.050	0.050	04/30/2014	ND	2.06	103	2.00	6.37	
Ethylbenzene*	<0.050	0.050	04/30/2014	ND	2.06	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	04/30/2014	ND	6.18	103	6.00	6.99	
Total BTEX	<0.300	0.300	04/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>10800</b>	16.0	04/25/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2014	ND	187	93.6	200	2.79	
<b>DRO &gt;C10-C28</b>	<b>35.1</b>	10.0	04/25/2014	ND	202	101	200	2.79	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

**Sample ID: SP 3 @ 6' (H401235-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2000</b>	16.0	04/25/2014	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:	04/24/2014	Sampling Date:	04/21/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ 9' (H401235-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2800</b>	16.0	04/25/2014	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 12' (H401235-10)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2000</b>	16.0	04/25/2014	ND	432	108	400	3.64	

**Sample ID: SP 3 @ 14' (H401235-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	04/25/2014	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:	04/24/2014	Sampling Date:	04/21/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ SURFACE (H401235-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	04/30/2014	ND	2.06	103	2.00	5.94		
Toluene*	<0.200	0.200	04/30/2014	ND	2.06	103	2.00	6.37		
Ethylbenzene*	<0.200	0.200	04/30/2014	ND	2.06	103	2.00	6.68		
Total Xylenes*	<0.600	0.600	04/30/2014	ND	6.18	103	6.00	6.99		
Total BTEX	<1.20	1.20	04/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>10900</b>	16.0	04/25/2014	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<200	200	04/25/2014	ND	187	93.6	200	2.79			
<b>DRO &gt;C10-C28</b>	<b>14700</b>	200	04/25/2014	ND	202	101	200	2.79			

Surrogate: 1-Chlorooctane 93.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 477 % 63.6-154

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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:	04/24/2014	Sampling Date:	04/21/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ 1' (H401235-13)**

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	04/30/2014	ND	2.06	103	2.00	5.94		
Toluene*	<0.050	0.050	04/30/2014	ND	2.06	103	2.00	6.37		
Ethylbenzene*	<0.050	0.050	04/30/2014	ND	2.06	103	2.00	6.68		
Total Xylenes*	<0.150	0.150	04/30/2014	ND	6.18	103	6.00	6.99		
Total BTEX	<0.300	0.300	04/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>448</b>	16.0	04/25/2014	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2014	ND	187	93.6	200	2.79		
DRO >C10-C28	<10.0	10.0	04/25/2014	ND	202	101	200	2.79		

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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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:	04/24/2014	Sampling Date:	04/22/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ 3' (H401235-14)**

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	04/30/2014	ND	2.06	103	2.00	5.94	
Toluene*	<0.050	0.050	04/30/2014	ND	2.06	103	2.00	6.37	
Ethylbenzene*	<0.050	0.050	04/30/2014	ND	2.06	103	2.00	6.68	
Total Xylenes*	<0.150	0.150	04/30/2014	ND	6.18	103	6.00	6.99	
Total BTEX	<0.300	0.300	04/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>784</b>	16.0	04/25/2014	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2014	ND	187	93.6	200	2.79	
DRO >C10-C28	<10.0	10.0	04/25/2014	ND	202	101	200	2.79	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

**Sample ID: SP 4 @ 5' (H401235-15)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	04/25/2014	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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



---

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**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc. **BILL TO**

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: Oxy City:

Project Name: Neff Federal #1 & #3 SWD Bty State: Zip:

Project Location: Eddy County, NM Phone #:

Sampler Name: Jeff Ornelas Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	CL	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H4D1235	SP1 @ SURFACE	✓	1	✓							4/18/14	9:00 AM	✓		
	SP1 @ 1'	✓	1	✓							4/18/14	9:07 AM	✓		
	SP2 @ SURFACE	✓	1	✓							4/18/14	9:50 AM	✓		
	SP2 @ 1'	✓	1	✓							4/18/14	10:11 AM	✓		
	SP3 @ SURFACE	✓	1	✓							4/18/14	10:45 AM	✓		
	SP3 @ 1'	✓	1	✓							4/18/14	11:30 AM	✓		
	SP3 @ 3'	✓	1	✓							4/18/14	1:29 PM	✓		
	SP3 @ 6'	✓	1	✓							4/21/14	9:09 AM	✓		
	SP3 @ 9'	✓	1	✓							4/21/14	10:40 AM	✓		
	SP3 @ 12'	✓	1	✓							4/21/14	12:48 PM	✓		

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Relinquished By: Jeff Ornelas  
 Date: 4/21/14  
 Time: 5:00 pm

Received By: Cecilia Jimeno  
 Date: 4/21/14  
 Time: 12:03 PM

Delivered By: (Circle One) Cecilia Jimeno  
 Sampler - UPS - Bus - Other: 0.49

Sample Condition: Cool  Intact   
 Yes  No

CHECKED BY: (Initials) [Signature]

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

REMARKS:

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

#54



**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 #:

State: NIM zip: 88241  
Fax #: 575-397-0397  
Project Owner: Oxy

Project Name: Neff Federal #1 & #3 SWD Btry  
Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Address

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
11	SP3 @ 14'		1			✓							4/21/14	1:49 PM
12	SP4 @ SURFACE		1			✓							4/21/14	2:19 PM
13	SP4 @ 1'		1			✓							4/21/14	2:38 PM
14	SP4 @ 3'		1			✓							4/22/14	8:41 AM
15	SP4 @ 5'		1			✓							4/22/14	9:47 AM

*Handwritten:* VAP 4/21/14

CI	TPH	BTEX												
✓	✓	✓												
✓	✓	✓												
✓	✓	✓												

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.

Relinquished By: Jeff Ornelas  
Date: 4/21/14  
Time: 5:00 PM

Received By: Jeff Ornelas  
Date: 4/21/14  
Time: 12:45 PM

Delivered By: (Circle One)  
UPS - UPS - Bus - Other: 0.492

Sample Condition: Cool  Intact   
Yes  No   
Checked By: Jeff Ornelas

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

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #54



December 04, 2014

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

RE: NEFF FEDERAL #1 & #3 SWD BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/26/14 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 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:	11/26/2014	Sampling Date:	11/26/2014
Reported:	12/04/2014	Sampling Type:	Soil
Project Name:	NEFF FEDERAL #1 & #3 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 6" (H403656-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2014	ND	1.85	92.4	2.00	3.28	
Toluene*	<0.050	0.050	12/02/2014	ND	1.82	91.1	2.00	2.76	
Ethylbenzene*	<0.050	0.050	12/02/2014	ND	1.72	85.8	2.00	4.19	
Total Xylenes*	<0.150	0.150	12/02/2014	ND	5.23	87.2	6.00	4.56	
Total BTEX	<0.300	0.300	12/02/2014	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154*

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	12/01/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/01/2014	ND	194	97.1	200	3.40	
DRO >C10-C28	<10.0	10.0	12/01/2014	ND	193	96.6	200	4.16	

*Surrogate: 1-Chlorooctane 123 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 144 % 52.1-176*

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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: BBC International, Inc.

P.O. #:

**BILL TO**

**ANALYSIS REQUEST**

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

State: NM Zip: 88241

Phone #: 575-397-6388

Fax #: 575-397-0397

Project #:

Project Owner: OXY

Project Name:

Moffitt 1 + 3 SWD

Project Location:

Mills Ranch

Sampler Name:

VP Ft. Ordinals

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

H403656

SP20611

(G)GRAB OR (C)COMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CL-  
TPH  
BTEX

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Relinquished By:

*CP*

Date: 11-26-14

Received By:

*Yodi Henderson*

Relinquished By:

*CP*

Date: 5:00

Received By:

*Yodi Henderson*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

1.22

Sample Condition  
Cool  Intact  
Yes  No

CHECKED BY: (Initials)  
*CP*

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

REMARKS:

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

#54

## Kathy Purvis

---

**From:** Patterson, Heather, EMNRD <Heather.Patterson@state.nm.us>  
**Sent:** Wednesday, August 20, 2014 9:55 AM  
**To:** Cliff P. Brunson; Bratcher, Mike, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-Neff Federal #1 and #3 SWD Battery - Remediation Plan

Cliff,

This remediation plan is approved.

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

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson  
Environmental Specialist  
NMOCD District II  
(575)748-1283 ext.101

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Thursday, August 14, 2014 6:56 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Patterson, Heather, EMNRD; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Neff Federal #1 and #3 SWD Battery - Remediation Plan

Mike,

This e-mail is to confirm our conversation on August 11, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 6 inches in the area of SP1 and SP2. In the area around SP3, the excavation will be 3 to 4 feet with a liner then put in place. In the area of SP4, the excavation will be 1 foot. The liner inside the battery will be cleaned as well. All of these areas are depicted on the attached diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

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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\*\*\*\*\*

## **Kathy Purvis**

---

**From:** Hughes, Solomon <shughes@blm.gov>  
**Sent:** Friday, August 29, 2014 12:28 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Heather.Patterson@state.nm.us; Bratcher, Mike, EMNRD  
**Subject:** Re: FW: OXY-Neff Federal #1 and #3 SWD Battery - Remediation Plan

Cliff,

I have one stipulation for this one:

Let's get a confirmation sample, after the six-inch scrape, at SP2.

Thanks,  
Sol

### **Sol Hughes**

Environmental Protection Division  
Bureau of Land Management  
620 E. Greene St  
Carlsbad, NM

Office: 575.234.5951  
Cell: 575.499.3378

On Thu, Aug 28, 2014 at 11:27 AM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:

Sol,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD as the approval e-mail is below. Oxy will excavate to a depth of 6 inches in the area of SP1 and SP2. In the area around SP3, the excavation will be 3 to 4 feet with a liner then put in place. In the area of SP4, the excavation will be 1 foot. The liner inside the battery will be cleaned as well. All of these areas are depicted on the attached diagram. Then the site will then be backfilled with clean soil.

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Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
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World-Wide Environmental Specialists  
Mailing Address:  
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Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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\*\*\*\*\*

---

**From:** Heather Patterson <[heather.patterson@state.nm.us](mailto:heather.patterson@state.nm.us)>  
**Date:** Wednesday, August 20, 2014 at 9:54 AM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>, Mike Bratcher <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Cc:** C J Summers <[Chancey\\_Summers@oxy.com](mailto:Chancey_Summers@oxy.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: OXY-Neff Federal #1 and #3 SWD Battery - Remediation Plan

Cliff,

This remediation plan is approved.

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Environmental Specialist

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Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

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