



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805  
E-MAIL: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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## **OXY – NEFF FEDERAL #1 & #3 SWD BATTERY**

### **REMEDIATION PLAN**

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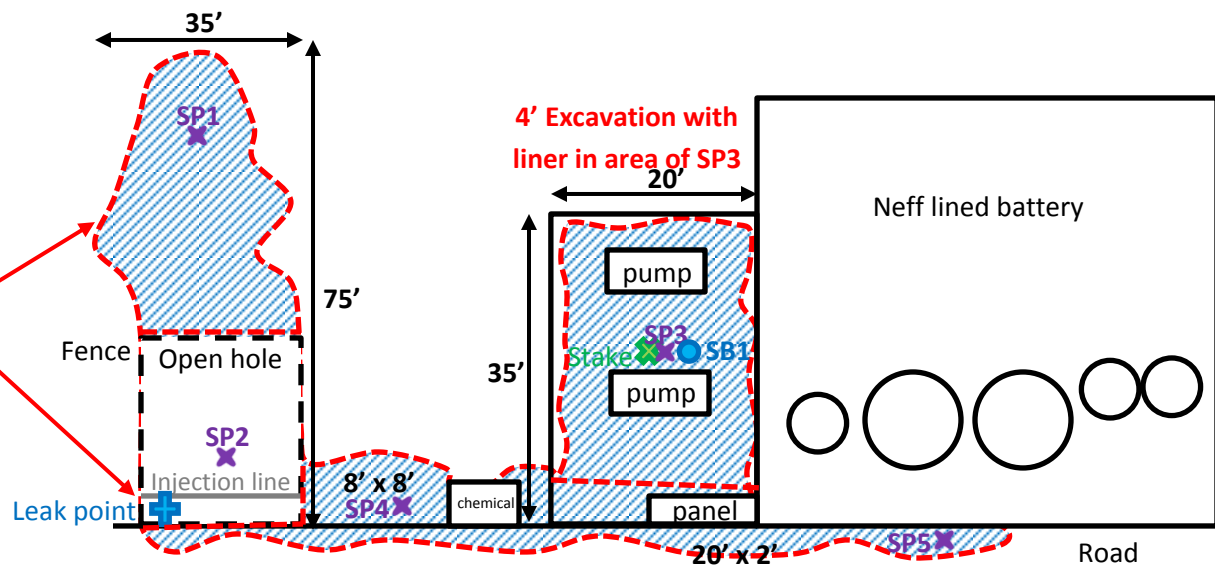
OXY will excavate the spill area as depicted on the following site diagram. The spill area near sample point SP3 will be excavated to a depth of 4 feet and then lined with a 20 mil liner. The rest of the spill area has already been excavated to a depth of 3 feet during battery re-construction activities and backfilled. This area includes SP1, SP2, SP4, and SP5. The excavated area will be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Oxy  
Neff Federal #1 & #3 SWD Battery

These areas covering SP1, SP2, SP4, and SP5 have already been excavated to a depth of 3 feet during battery reconstruction activities.



U/L C, Section 25, T22S, R31E

Eddy County, NM

N 32.36767° W 103.73404°

API# 30-015-28281

BBC International, Inc.

Oxy

Neff Federal #1 & #3 SWD Battery

Date: 08/28/15

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015



# Groundwater Plot

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

County  
Eddy

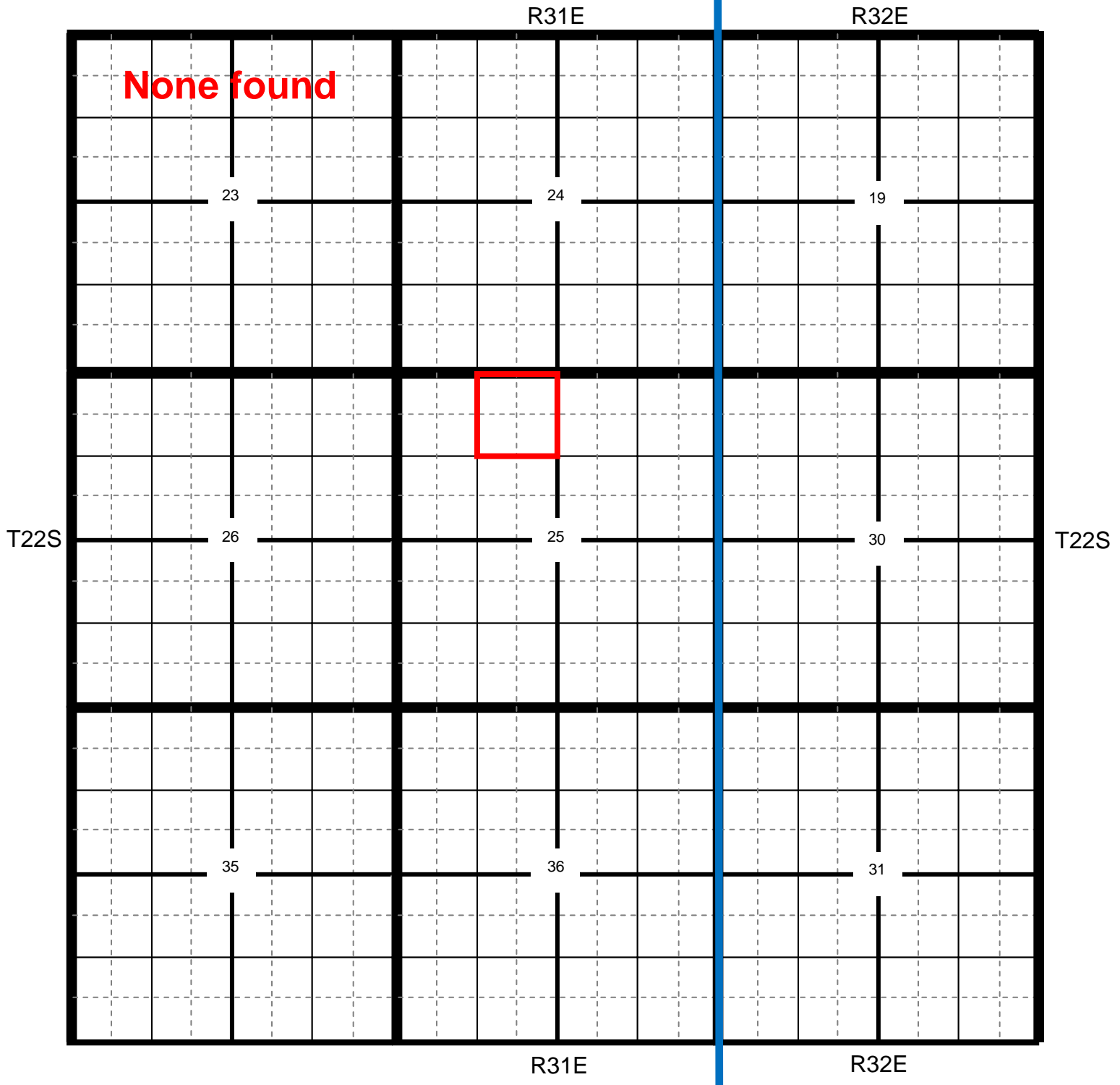
Unit Letter  
C

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 C      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

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

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	9/22/15	9/22/15	9/22/15	9/22/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		1410	560	320	448

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'
Analyte	Method	Date	9/22/15	9/22/15	9/22/15	9/22/15	9/22/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		5440	3640	1020	368	384

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'	SP3 @ 9'	SP3 @ 10'	SP3 @ 12'	SP3 @ 14'	SP3 @ 16'	SP3 @ 18'
Analyte	Method	Date	9/22/15	9/23/15	9/23/15	9/23/15	9/23/15	2/22/16	2/22/16	2/22/16	2/22/26	2/22/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		11500	22400	21200	24800	22400	11200	13200	10200	8400	11000

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'
Analyte	Method	Date	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		34000	1280	1100	352	368

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'
Analyte	Method	Date	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15	9/23/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		36400	1260	400	464	352	<16.0

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

		Sample	SB1 @ 20'	SB1 @ 25'	SB1 @ 30'	SB1 @ 35'	SB1 @ 40'	SB1 @ 45'
Analyte	Method	Date	4/19/16	4/19/16	4/19/16	4/19/16	4/19/16	4/19/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		8800	8400	12000	6200	5300	16



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

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September 30, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NEFF 1 & 3

Enclosed are the results of analyses for samples received by the laboratory on 09/24/15 11:44.

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, 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: 09/24/2015  
 Reported: 09/30/2015  
 Project Name: NEFF 1 & 3  
 Project Number: NONE GIVEN  
 Project Location: MILLS RANCH

 Sampling Date: 09/22/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Judy Garcia

**Sample ID: SP1 @ 1 (H502534-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP1 @ 2 (H502534-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP1 @ 3 (H502534-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP1 @ 4 (H502534-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/29/2015	ND	464	116	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

 Received: 09/24/2015  
 Reported: 09/30/2015  
 Project Name: NEFF 1 & 3  
 Project Number: NONE GIVEN  
 Project Location: MILLS RANCH

 Sampling Date: 09/22/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Judy Garcia

**Sample ID: SP2 @ 1 (H502534-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP2 @ 3 (H502534-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP2 @ 4 (H502534-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP2 @ 5 (H502534-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP2 @ 6 (H502534-09)**

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	09/29/2015	ND	464	116	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 09/24/2015  
Reported: 09/30/2015  
Project Name: NEFF 1 & 3  
Project Number: NONE GIVEN  
Project Location: MILLS RANCH

Sampling Date: 09/22/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP3 @ 1 (H502534-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP3 @ 3 (H502534-11)**

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	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP3 @ 5 (H502534-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP3 @ 7 (H502534-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP3 @ 9 (H502534-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	09/29/2015	ND	464	116	400	0.00	

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Fax To: (575) 397-0397

Received: 09/24/2015  
Reported: 09/30/2015  
Project Name: NEFF 1 & 3  
Project Number: NONE GIVEN  
Project Location: MILLS RANCH

Sampling Date: 09/23/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP4 @ 1 (H502534-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP4 @ 2 (H502534-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP4 @ 3 (H502534-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	09/29/2015	ND	464	116	400	0.00	

**Sample ID: SP4 @ 4 (H502534-18)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/29/2015	ND	416	104	400	0.00	

**Sample ID: SP4 @ 5 (H502534-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/29/2015	ND	416	104	400	0.00	

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Cliff Brunson  
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Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 09/24/2015  
Reported: 09/30/2015  
Project Name: NEFF 1 & 3  
Project Number: NONE GIVEN  
Project Location: MILLS RANCH

Sampling Date: 09/23/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP5 @ 1 (H502534-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36400	16.0	09/29/2015	ND	416	104	400	0.00	

**Sample ID: SP5 @ 2 (H502534-21)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	09/29/2015	ND	416	104	400	0.00	

**Sample ID: SP5 @ 3 (H502534-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/29/2015	ND	416	104	400	0.00	

**Sample ID: SP5 @ 4 (H502534-23)**

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	09/29/2015	ND	416	104	400	0.00	

**Sample ID: SP5 @ 5 (H502534-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/29/2015	ND	416	104	400	0.00	

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

Received: 09/24/2015  
Reported: 09/30/2015  
Project Name: NEFF 1 & 3  
Project Number: NONE GIVEN  
Project Location: MILLS RANCH

Sampling Date: 09/23/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP5 @ 6 (H502534-25)****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	09/29/2015	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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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/3

### BILL TO

### ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:	
Project Manager: Cliff Brunson		Company:	
Address: P.O. Box 805		Attn: CV	
City: Hobbs		Address: Sumner	
Phone #: 575-397-6388		City:	
Fax #: 575-397-0397		State:	
Project #: Project Owner: OXY		Zip:	
Project Name: Mett 143		Phone #:	
Project Location: Mills Ranch		Fax #:	
Sample Name: 1.0		PRESERV	
FOR LAB USE ONLY		SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	
1502534	SP101	# CONTAINERS	
	02	GROUNDWATER	
	03	WASTEWATER	
	04	SOIL	
	SP201	OIL	
	03	SLUDGE	
	04	OTHER :	
	05	ACID/BASE:	
	06	ICE / COOL	
	SP301	OTHER :	
		DATE	
		TIME	
		C1-	
PLEASE NOTE: Liability and Damage: 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.		REMARKS:	
Relinquished By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By: [Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date: 9/24/15		Add'l Phone #:	
Time: 11:44		Add'l Fax #:	
Received By: [Signature]			
Date: 9/24/15			
Time: 11:44			
Delivered By: (Circle One)			
Sampler - UPS - Bus - Other:			
1.8c			
#54			





# CARDINAL LABORATORIES

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

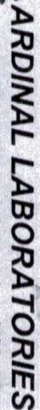
## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/3

Company Name: BBC International, Inc.		<b>BILL TO</b>		ANALYSIS REQUEST																					
Project Manager: Cliff Brunson		P.O. #:																							
Address: P.O. Box 805		Company:																							
City: Hobbs		Attn: CV																							
State: NM Zip: 88241		Address: Janneres																							
Phone #: 575-397-6388 Fax #: 575-397-0397		City:																							
Project #:		State:																							
Project Name: NHT 143		Zip:																							
Project Location: Mills Ranch		Phone #:																							
Sampler Name: V.O.		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.		SAMPLING																	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
4502524	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	851	X										
14	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	950	X										
15	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	1010	X										
16	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	1049	X										
17	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	1100	X										
18	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	1111	X										
19	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	1138	X										
20	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	1200	X										
	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	1250	X										
	SP303	X	X	X	X	X	X	X	X	X	X	X	9.23	1339	X										
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: VHT Onekz	Date: 9-21-15	Received By: [Signature]	Time: 11:44																						
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Date: 9-24-15	Received By: [Signature]	Time: 1:44																						
Sample Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: [Signature]																					
Geol. Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				INITIALS: [Signature]																					
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #: [ ]																					
REMARKS:																									

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





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

$$\frac{W}{W}$$
Page 11 of 11





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

---

March 04, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NEFF 1 & 3

Enclosed are the results of analyses for samples received by the laboratory on 03/01/16 16:50.

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 style with a large, stylized 'C' and 'K'.

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: 03/01/2016  
Reported: 03/04/2016  
Project Name: NEFF 1 & 3  
Project Number: NONE GIVEN  
Project Location: MILLS RANCH

Sampling Date: 02/22/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 10' (H600457-01)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	03/04/2016	ND	400	100	400	3.92	

**Sample ID: SP 3 @ 12' (H600457-02)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	03/04/2016	ND	400	100	400	3.92	

**Sample ID: SP 3 @ 14' (H600457-03)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	03/04/2016	ND	400	100	400	3.92	

**Sample ID: SP 3 @ 16' (H600457-04)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	03/04/2016	ND	400	100	400	3.92	

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: 03/01/2016  
Reported: 03/04/2016  
Project Name: NEFF 1 & 3  
Project Number: NONE GIVEN  
Project Location: MILLS RANCH

Sampling Date: 02/22/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 18 (H600457-05)****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>11000</b>	16.0	03/04/2016	ND	400	100	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



**ORDINAL LABORATORIES**

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: NPT 1+3 SUB

Project Location: Mills Ranch

Sample Name: Left barrel

State: NM

Fax #: 575-397-0397

Project Owner: ok

City:

State:

Zip:

Phone #:

Fax #:

Company:

Attn: Jumper

Address:

City:

State:

Zip:

Phone #:

Fax #:

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

SP3010

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

---

April 26, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NEFF 1 & 3

Enclosed are the results of analyses for samples received by the laboratory on 04/21/16 8:40.

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).

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

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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 with a large, stylized 'C' and 'K'.

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: 04/21/2016  
Reported: 04/26/2016  
Project Name: NEFF 1 & 3  
Project Number: NONE GIVEN  
Project Location: MILLS RANCH

Sampling Date: 04/19/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 20' (H600864-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	04/22/2016	ND	416	104	400	0.00	

**Sample ID: SB 1 @ 25' (H600864-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	04/22/2016	ND	416	104	400	0.00	

**Sample ID: SB 1 @ 30' (H600864-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	04/22/2016	ND	416	104	400	0.00	

**Sample ID: SB 1 @ 35' (H600864-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6200	16.0	04/22/2016	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: 04/21/2016  
Reported: 04/26/2016  
Project Name: NEFF 1 & 3  
Project Number: NONE GIVEN  
Project Location: MILLS RANCH

Sampling Date: 04/19/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 40' (H600864-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5300	16.0	04/22/2016	ND	416	104	400	0.00		

**Sample ID: SB 1 @ 45' (H600864-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/22/2016	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager





**ARDINAL LABORATORIES**

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10/1

**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: NEFF FEE # 183  
Project Location:   
Sample Name: ROGER HERMAN  
FOR LAB USE ONLY

P.O. #:  
Company: ORY  
Attn: Alyssa  
Address:  
City:  
State:  
Zip:

State: NM Zip: 88241  
Fax #: 575-397-0397

City: Hobbs  
State: NM Zip: 88241  
Attn: Alyssa  
Address:  
City:  
State:  
Zip:

Phone #: 575-397-6388  
Fax #: 575-397-0397  
Project Owner: ORY  
City:  
State:  
Zip:

Project #:   
Project Name: NEFF FEE # 183  
Project Location:   
Sample Name: ROGER HERMAN  
FOR LAB USE ONLY

Project Location:   
Sample Name: ROGER HERMAN  
FOR LAB USE ONLY

Sample Name: ROGER HERMAN  
FOR LAB USE ONLY

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H100864

1 SBIC 20'

2 25'

3 30'

4 35'

5 40'

6 45'

Date: 9/20/16  
Time: 8:40  
Relinquished By: [Signature]  
Received By: [Signature]

Date: 9/20/16  
Time: 8:40  
Relinquished By: [Signature]  
Received By: [Signature]

Date: 9/20/16  
Time: 8:40  
Relinquished By: [Signature]  
Received By: [Signature]

Date: 9/20/16  
Time: 8:40  
Relinquished By: [Signature]  
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Date: 9/20/16  
Time: 8:40  
Relinquished By: [Signature]  
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Date: 9/20/16  
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Relinquished By: [Signature]  
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Date: 9/20/16  
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Relinquished By: [Signature]  
Received By: [Signature]

Date: 9/20/16  
Time: 8:40  
Relinquished By: [Signature]  
Received By: [Signature]

Date: 9/20/16  
Time: 8:40  
Relinquished By: [Signature]  
Received By: [Signature]

Date: 9/20/16  
Time: 8:40  
Relinquished By: [Signature]  
Received By: [Signature]

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:



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	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	Neff Federal #1 and #3 SWD Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API No.30-015-28281

### LOCATION OF RELEASE

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

Latitude N 32.36758° Longitude W 103.73418°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	Unknown, mixed with rain water	Volume Recovered	80 bbls, mostly rain water
Source of Release	Corrosion of a 4" discharge line	Date and Hour of Occurrence	08/24/2015	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 and Heather Patterson, NMOCD and Shelly Tucker, BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	08/25/2015 @ 3:06 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.\*

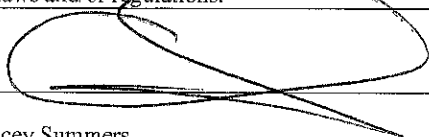
Describe Cause of Problem and Remedial Action Taken.\*

Corrosion of a 4" steel discharge line caused an unknown amount of produced water to leak onto the ground. The line was repaired and a vacuum truck recovered 80 bbls of fluids, mostly rain water.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 80' x 75' just west of the lined battery. 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 Lead			Approval Date:	Expiration Date:
E-mail Address:	Chancey_Summers@oxy.com			Conditions of Approval:	Attached <input type="checkbox"/>
Date:	9-11-15			Phone:	(432) 685-5824

\* Attach Additional Sheets If Necessary