



Oxy – State AR #003 Battery (11/03/2016)

REMEDIATION PLAN, RP # 1RP-4518

Oxy will excavate the spill area as depicted on the following site diagram. The entire leak area will be surface-scraped. The impacted material inside the lined battery area will be removed. The entire site will then be backfilled with clean soil.

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

APPROVED

By Olivia Yu at 12:09 pm, Mar 07, 2017

Delineation workplan for 1RP-4518 is approved with these conditions:

- 1) Complete vertical delineation of two sample locations within the battery.
- 2) Scaled, digital map in closure report.



Oxy

State AR #003 Battery (11/03/16)

✦ North Sample

Surface scrape the entire leak area

45' x 28'

SP1

SP2

Electrical

✦ GPS N 32.59991 W 103.22853

West Sample ✦

SP3

30' x 20'

Lined
Battery

✦ East Sample

30' x 90'

1' tall Berm

Overspray and
Burn Area
60' x 90'

SP4

SP5

✦ South Sample

U/L L, Section 2, T20S, R37E

Lea County, NM

N 32.59991° W 103.22853°

API# 30-025-37155

BBC International, Inc.

Oxy

State AR #003 Battery

Date: 12/08//2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



Groundwater Plot

Oxy State AR #003 Battery

County
Lea

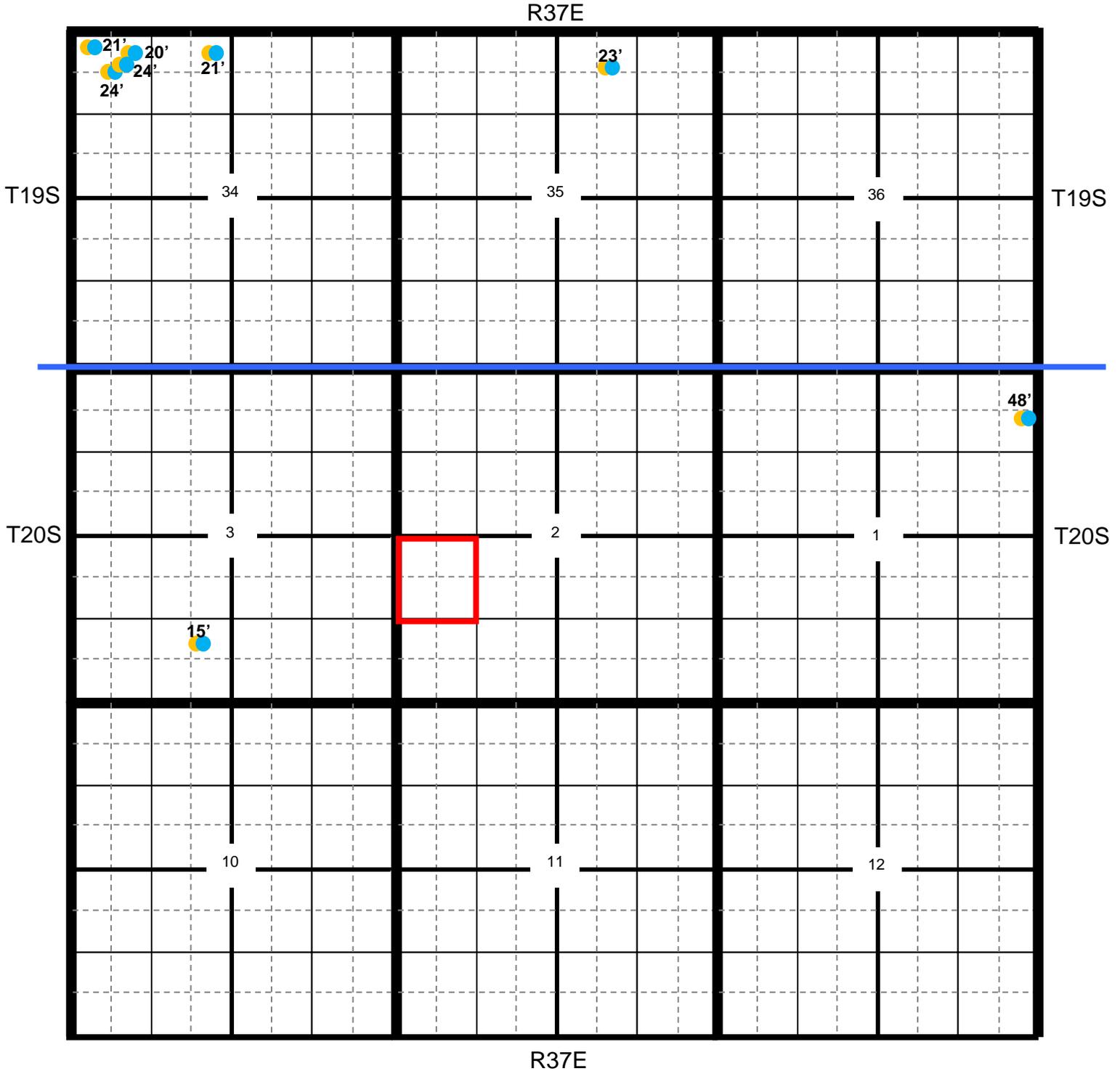
Unit Letter
L

Section
2

Township
20S

Range
37E

Trend Map <50'



Location

OCD

USGS

SEO

All Databases

Oxy State AR #003 Battery

County: Lea Unit Letter: L Section: 2 Township: 20S Range: 37E

Trend Map <50'

1

2

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

3

4

📍 Location

● OCD

● USGS

● SEO

● All Databases

Laboratory Analytical Results Summary
State AR #003 Battery

		Sample	SP1 @ 1'
Analyte	Method	Date	12/23/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	NORTH SAMPLE
Analyte	Method	Date	12/23/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP2 @ 1'
Analyte	Method	Date	12/23/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	EAST SAMPLE
Analyte	Method	Date	12/23/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.05
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP3 @ 1'
Analyte	Method	Date	12/23/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH SAMPLE
Analyte	Method	Date	12/23/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP4 @ SURFACE
Analyte	Method	Date	12/23/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.058
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		64.9

		Sample	WEST SAMPLE
Analyte	Method	Date	12/23/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP5 @ SURFACE
Analyte	Method	Date	12/23/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



January 04, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE AR #003 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/27/16 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink 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:	12/27/2016	Sampling Date:	12/23/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	STATE AR #003 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H602872-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTEX	<0.300	0.300	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348	
DRO >C10-C28	<10.0	10.0	12/28/2016	ND	187	93.5	200	2.11	

Surrogate: 1-Chlorooctane 88.8 % 35-147
Surrogate: 1-Chlorooctadecane 101 % 28-171

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:	12/27/2016	Sampling Date:	12/23/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	STATE AR #003 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H602872-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTEX	<0.300	0.300	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348	
DRO >C10-C28	<10.0	10.0	12/28/2016	ND	187	93.5	200	2.11	

Surrogate: 1-Chlorooctane 91.5 % 35-147

Surrogate: 1-Chlorooctadecane 87.5 % 28-171

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Received:	12/27/2016	Sampling Date:	12/23/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	STATE AR #003 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H602872-03)

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	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTEX	<0.300	0.300	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348	
DRO >C10-C28	<10.0	10.0	12/28/2016	ND	187	93.5	200	2.11	

Surrogate: 1-Chlorooctane 88.5 % 35-147

Surrogate: 1-Chlorooctadecane 87.2 % 28-171

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Received:	12/27/2016	Sampling Date:	12/23/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	STATE AR #003 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H602872-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2016	ND	2.06	103	2.00	1.01		
Toluene*	0.058	0.050	12/29/2016	ND	2.16	108	2.00	0.806		
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955		
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865		
Total BTEX	<0.300	0.300	12/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/28/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348		
DRO >C10-C28	64.9	10.0	12/28/2016	ND	187	93.5	200	2.11		

Surrogate: 1-Chlorooctane 62.0 % 35-147

Surrogate: 1-Chlorooctadecane 68.9 % 28-171

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Received:	12/27/2016	Sampling Date:	12/23/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	STATE AR #003 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H602872-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2016	ND	2.06	103	2.00	1.01		
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806		
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955		
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865		
Total BTEX	<0.300	0.300	12/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/28/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348		
DRO >C10-C28	<10.0	10.0	12/28/2016	ND	187	93.5	200	2.11		

Surrogate: 1-Chlorooctane 86.6 % 35-147

Surrogate: 1-Chlorooctadecane 94.2 % 28-171

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

Received:	12/27/2016	Sampling Date:	12/23/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	STATE AR #003 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NORTH SAMPLE (H602872-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2016	ND	2.06	103	2.00	1.01		
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806		
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955		
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865		
Total BTEX	<0.300	0.300	12/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/28/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348		
DRO >C10-C28	<10.0	10.0	12/28/2016	ND	187	93.5	200	2.11		

Surrogate: 1-Chlorooctane 76.5 % 35-147

Surrogate: 1-Chlorooctadecane 83.5 % 28-171

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Received:	12/27/2016	Sampling Date:	12/23/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	STATE AR #003 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EAST SAMPLE (H602872-07)

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	12/29/2016	ND	2.06	103	2.00	1.01		
Toluene*	0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806		
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955		
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865		
Total BTEX	<0.300	0.300	12/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/28/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348		
DRO >C10-C28	<10.0	10.0	12/28/2016	ND	187	93.5	200	2.11		

Surrogate: 1-Chlorooctane 68.7 % 35-147

Surrogate: 1-Chlorooctadecane 69.4 % 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:	12/27/2016	Sampling Date:	12/23/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	STATE AR #003 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SOUTH SAMPLE (H602872-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2016	ND	2.06	103	2.00	1.01		
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806		
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955		
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865		
Total BTEX	<0.300	0.300	12/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/28/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/29/2016	ND	222	111	200	1.28		
DRO >C10-C28	<10.0	10.0	12/29/2016	ND	227	113	200	4.73		

Surrogate: 1-Chlorooctane 86.3 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 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:	12/27/2016	Sampling Date:	12/23/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	STATE AR #003 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WEST SAMPLE (H602872-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2016	ND	1.82	91.1	2.00	2.19		
Toluene*	<0.050	0.050	12/30/2016	ND	1.85	92.3	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/30/2016	ND	1.90	95.0	2.00	2.67		
Total Xylenes*	<0.150	0.150	12/30/2016	ND	5.54	92.3	6.00	2.61		
Total BTEX	<0.300	0.300	12/30/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/28/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/29/2016	ND	222	111	200	1.28		
DRO >C10-C28	<10.0	10.0	12/29/2016	ND	227	113	200	4.73		

Surrogate: 1-Chlorooctane 96.6 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Cliff Brunson P.O. #: Company: OXY

Address: P.O. Box 805 State: NM zip: 88241 Attn: Casey Summers

City: Hobbs Phone #: 575-397-6388 Fax #: 575-397-0397 Address:

Project #: Project Owner: Project Name: STATE AR # 003 BATTERY City: State: Zip:

Project Location: Project Name: STATE AR # 003 BATTERY Phone #: Fax #:

Sampler Name: ROGER HERNANDEZ

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H1602472	SP1 @ 1'		1						11-23-16	9:00	TPH	
	SP2 @ 1'		1						12-23-16	9:50	BTEX	
	SP3 @ 1'		1						12-23-16	10:40	CL-	
	SP4 @ SURFACE		1						12-23-16	10:50		
	SP5 @ SURFACE		1						12-23-16	11:00		
	NORTH SAMPLE		1						12-23-16	12:30		
	EAST SAMPLE		1						12-23-16	1:00		
	SOUTH SAMPLE		1						12-23-16	1:25		
	WEST SAMPLE		1						12-23-16	1:40		

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 analysis. 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: ROGER HERNANDEZ Date: 12-27-16 Received By: Jodi Mendonca Time: 4:30

Relinquished By: ROGER HERNANDEZ Date: Received By: Time:

Delivered By: (Circle One) Sampler - UPS - Bus - Other: #175 3:52

Sample Condition: Cool Intact Yes No Yes No

CHECKED BY: (Initials) [Signature]

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

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

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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	State AR #003 Battery	Facility Type	Battery
Surface Owner	State	Mineral Owner	
		API No.	30-025-37155

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	2	20S	37E					Lea County, NM

Latitude N 32.60027° Longitude W 103.22839°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	162 bbls oil, unknown amt of produced water	Volume Recovered	0 bbls
Source of Release	A lightning strike caused the east oil production tank and 2 other tanks to catch fire, burn, and melt that resulted in a hydrocarbon and produced water burn off		Date and Hour of Occurrence	11/02/2016	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required		If YES, To Whom?	Kristen Lynch- NMOCD	
By Whom?	Kathy Purvis		Date and Hour	11/03/2016 @ 4:30 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.*

A lightning strike started a fire on the east oil production tank and two other tanks causing them to burn and melt. As a result of the fire, the hydrocarbon and produced water content burned off. Therefore, no fluids were recovered.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 50' x 100' both on and off location. Remediation will be completed in accordance with a 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: 11-15-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary



11/04/2016







02/21/2017