RECEIVED
By OCD; Dr. Oberding at 3:48 pm, Mar 24, 2015

OXY USA, Inc.
Monsanto State Battery
Delineation Report and Work Plan

Section 16, T25S, R32E
Lea County, New Mexico

APPROVED Conditionally
By OCD; Dr. Oberding at 3:48 pm, Mar 24, 2015
Condition for approval- More complete remediation and addressing of deeper contaminants will occur upon site abandonment/sale OR when the tanks are replaced/upgraded.

March 20, 2015

Prepared for:

OXY USA, Inc.
1017 W Stanolind Road
Hobbs, New Mexico 88240

By:

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510

1RP-3326

TABLE OF CONTENTS

I. Company Contacts

Representative	Company	Telephone	E-mail
Austin Tramell	OXY USA, INC.	575-499-4919	austin_tramell@oxy.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by OXY USA, INC to perform site assessment of a release area at the Monsanto State Battery located in Section 16 of Township 25 South, Range 32 East, Lea County, New Mexico.

According to the C-141 the cause of release was Automation failure caused the tanks to overflow and leak 35 bbls of oil and 35 bbls of produced water onto the ground. A vacuum truck recovered 30 bbls of oil and 30 bbls of produced water. The automation was repaired.

III. Surface and Ground Water

The nearest groundwater of record is approximately 3 miles Northwest of the site. The New Mexico Office of State Engineer record is in Section 31 Range 32 East and Township 25 South. The reported depth was 295 feet below ground surface (BGS).

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm Total Petroleum Hydrocarbons (TPH).

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	**X**
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	**X**
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	**X**
RANKING SCORE (TOTAL POINTS)			**0**

V. Work Performed

On March 20 2014, Safety & Environmental Solutions, Inc. was onsite to determine vertical extent of contamination. All samples were properly packaged, preserved and transported to the Laboratory, Hobbs New Mexico and analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Total BTEX and Chloride (Cl^-) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Sample Date 12/03/2014	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
TT 1 at 12'	BTEX 8021B	<0.200	<0.200	<0.200	2.22	2.22
TT 1 at 13'	BTEX 8021B	<0.200	<0.200	<0.200	2.27	2.27
TT 2 at 9.5'	BTEX 8021B	<0.050	<0.050	<0.050	0.221	<0.300
TT 2 at 13'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300

Sample Date 12/03/2014	Sample ID	Chloride (Cl)	Sample ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)
Depth	**Method**		**Method**		
TT 1 at 12'	SM4500Cl-B	224	TPH 8015M	337	5810
TT 1 at 13'	SM4500Cl-B	224	TPH 8015M	430	9110
TT 2 at 9.5'	SM4500Cl-B	1960	TPH 8015M	71.1	1720
TT 2 at 13'	SM4500Cl-B	1410	TPH 8015M	<50.0	779

The backhoe only allowed a 13' depth. At this depth we did not find extent of contamination.

On March 6 2015, Safety & Environmental Solutions, Inc. was onsite to determine vertical extent of contamination. All samples were properly packaged, preserved and transported to the Laboratory, Hobbs New Mexico and analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Total BTEX and Chloride (Cl^-) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Sample Date 03/09/2015	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
BH 1 at 15'	BTEX 8021B	<0.050	0.116	0.672	4.84	5.63
BH 1 at 17.5'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
BH 1 at 18.5'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
BH 2 at 16'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
BH 2 at 18'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300

Sample Date 03/09/2015	Sample ID	Chloride (Cl)	Sample ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)
Depth	**Method**		**Method**		
BH 1 at 15'	SM4500Cl-B	1470	TPH 8015M	337	5810
BH 1 at 17.5'	SM4500Cl-B	1410	TPH 8015M	10.5	768
BH 1 at 18.5'	SM4500Cl-B	1680	TPH 8015M	<10.0	838
BH 2 at 16'	SM4500Cl-B	960	TPH 8015M	<10.0	<10.0
BH 2 at 18'	SM4500Cl-B	816	TPH 8015M	<10.0	<10.0

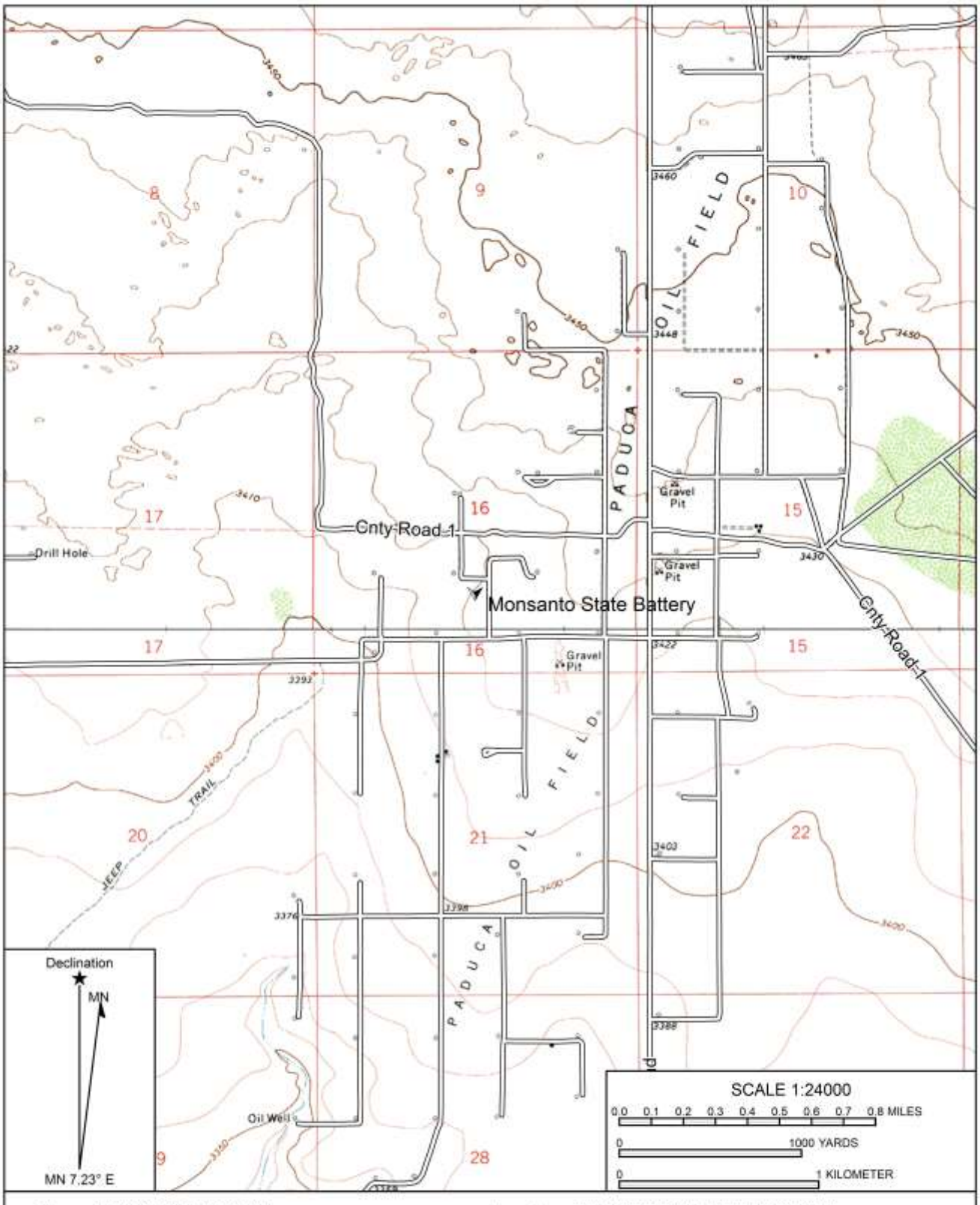
VI. Action Plan

Due to the extreme depth to groundwater in this area, the entire spill site will be excavated to a depth of 2'. All contaminated soil will be transported to Sundance Services, an NMOCD approval facility, for disposal. Some TPH contaminated will be left in place and placing a liner in the excavation would not allow further remediate by aeration. Samples will be taken from the excavation to document the amount of contamination being left in place. The excavation will be backfilled with clean soil and return to grade.

VII. Figures & Appendices

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Figure 3 – NMOCD Trend Map
Appendix A – Analytical Results
Appendix B – C-141

Figure 1
Vicinity Map



Name: PADUCA BREAKS NW,
Date: 03/19/15
Scale: 1 inch = 2,000 ft.

Location: 032.1265737° N, 103.6793846° W
Caption: Monsanto State Battery

Figure 2
Site Plan

Monsanto State Battery

Appendix A
Analytical Results

CARDINAL Laboratories

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

December 08, 2014

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: MONSANTO STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/04/14 8:00.

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.tnrcc.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/08/2014	Sampling Type:	Soil
Project Name:	MONSANTO STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-005	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: TT-1 12' BGS (H403692-01)

BTEX 8021B mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	<0.200	0.200	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	<0.200	0.200	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	**2.22**	0.600	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTEX	**2.22**	1.20	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) *168 %* *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	**224**	16.0	12/04/2014	ND	400	100	400	3.92	

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	**415**	100	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	**7590**	100	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane *184 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *298 %* *32.3-176*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/08/2014	Sampling Type:	Soil
Project Name:	MONSANTO STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-005	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: TT-1 13' BGS (H403692-02)

BTEX 8021B mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	<0.200	0.200	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	<0.200	0.200	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	**2.27**	0.600	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTEX	**2.27**	1.20	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) *107 %* *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	**224**	16.0	12/04/2014	ND	400	100	400	3.92	

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	**430**	100	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	**9110**	100	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane *179 %* *47.2-157*
Surrogate: 1-Chlorooctadecane *383 %* *32.3-178*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/08/2014	Sampling Type:	Soil
Project Name:	MONSANTO STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-005	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: TT-2 9.5' BGS (H403692-03)

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	12/08/2014	ND	1.91	95.3	2.00	1.75	
Toluene*	<0.050	0.050	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	**0.221**	0.150	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTEX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) *184 %* *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	**1960**	16.0	12/04/2014	ND	400	100	400	3.92	

TPH 8015M mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**71.1**	50.0	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	**1720**	50.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane *128 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *174 %* *32.1-176*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/08/2014	Sampling Type:	Soil
Project Name:	MONSANTO STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-005	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: TT-2 13' BGS (H403692-04)

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	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	<0.050	0.050	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	<0.150	0.150	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTEX	<0.300	0.300	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) *164 %* *61-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1410**	16.0	12/04/2014	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	**779**	50.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane *124 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *156 %* *32.3-176*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

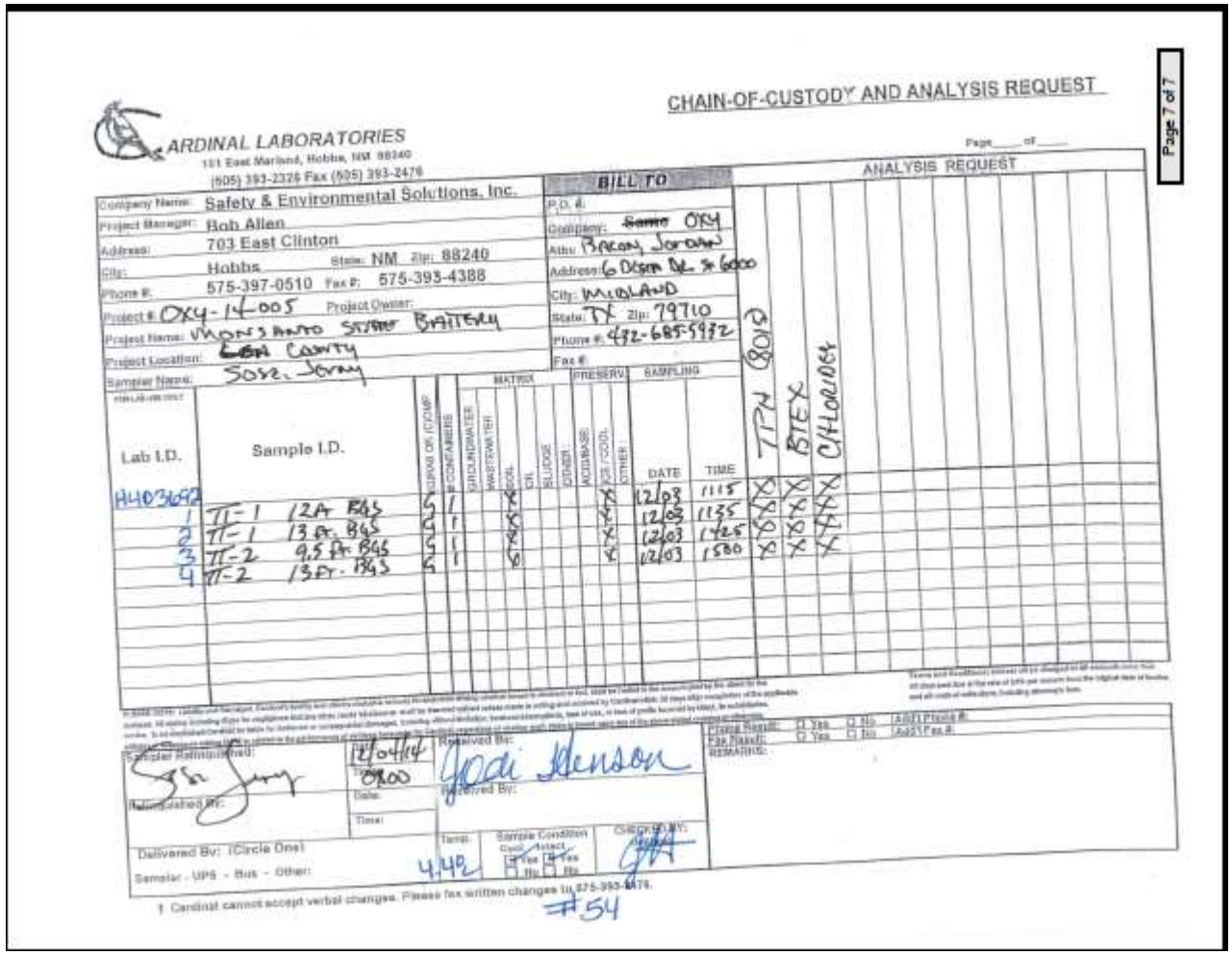
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

Page ____ of ____

Company Name:	Safety & Environmental Solutions, Inc.	BILL TO P.O. #:	
Project Manager:	Bob Allen	Company:	~~Same~~ OXY
Address:	703 East Clinton	Attn:	Bacon, Jeremy
City:	Hobbs State: NM Zip: 88240	Address:	6 Desta Dr. Ste 6000
Phone #:	575-397-0510 Fax #: 575-393-4388	City:	MIDLAND
Project #:	OXY-14-005 Project Owner:	State:	TX Zip: 79710
Project Name:	Monsanto Stiver Battery	Phone #:	432-685-5982
Project Location:	Eddy County	Fax #:	
Sampler Name:	Sosa, Jeremy		

Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	TPH 8015	BTEX	Chlorides
H403692																
1	TT-1 12Ft Bgs	1			X					X		12/03	1115	X	X	X
2	TT-1 13Ft Bgs	1			X					X		12/03	1135	X	X	X
3	TT-2 9.5Ft Bgs	1			X					X		12/03	1425	X	X	X
4	TT-2 13Ft. Bgs	1			X					X		12/03	1580	X	X	X

ANALYSIS REQUEST

Terms and Conditions: Interest will be charged on all accounts over 30 days past due at the rate of 24% per annum from the original date of invoice and all costs of collection, including attorney's fees.

Relinquished By:	12/04/14	Received By:	Jodi Henson	Phone Result:	☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Time: 0900	Received By:		Fax Result:	☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One)	Date:	Temp:	Sample Condition: Cool / Intact: ☑ Yes ☐ No ☑ Yes ☐ No	CHECKED BY:	REMARKS:
Sampler - UPS - Bus - Other:	Time:	4.4c			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

#54

CARDINAL Laboratories

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

March 12, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: MONSANTO STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/09/15 16:50.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	03/09/2015	Sampling Date:	03/06/2015
Reported:	03/12/2015	Sampling Type:	Soil
Project Name:	MONSANTO STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-005	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BH-1 15' (H500647-01)

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	03/11/2015	ND	2.10	105	2.00	1.08	
Toluene*	0.116	0.050	03/11/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	0.672	0.050	03/11/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	4.84	0.150	03/11/2015	ND	6.10	102	6.00	0.213	
Total BTEX	5.63	0.300	03/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 129 % 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	1470	16.0	03/10/2015	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	337	50.0	03/11/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	5810	50.0	03/11/2015	ND	203	102	200	0.942	

Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 157 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	03/09/2015	Sampling Date:	03/06/2015
Reported:	03/12/2015	Sampling Type:	Soil
Project Name:	MONSANTO STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-005	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BH-1 17.5' (H500647-02)

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	03/11/2015	ND	2.10	105	2.00	1.08	
Toluene*	<0.050	0.050	03/11/2015	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	03/11/2015	ND	2.23	112	2.00	0.897	
Total Xylenes*	<0.150	0.150	03/11/2015	ND	6.10	102	6.00	0.213	
Total BTEX	<0.300	0.300	03/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 119 % 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	**1410**	16.0	03/10/2015	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	**10.5**	10.0	03/11/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	**768**	10.0	03/11/2015	ND	203	102	200	0.942	

Surrogate: 1-Chlorooctane 89.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	03/09/2015	Sampling Date:	03/06/2015
Reported:	03/12/2015	Sampling Type:	Soil
Project Name:	MONSANTO STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-005	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BH-1 18.5' (H500647-03)

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	03/11/2015	ND	2.09	105	2.00	0.506	
Toluene*	<0.050	0.050	03/11/2015	ND	1.95	97.5	2.00	0.0885	
Ethylbenzene*	<0.050	0.050	03/11/2015	ND	2.31	115	2.00	1.36	
Total Xylenes*	<0.150	0.150	03/11/2015	ND	6.27	104	6.00	1.52	
Total BTEX	<0.300	0.300	03/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 119 % *61-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	03/10/2015	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	03/11/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	838	10.0	03/11/2015	ND	203	102	200	0.942	

Surrogate: 1-Chlorooctane 92.0 % *47.2-157*

Surrogate: 1-Chlorooctadecane 103 % *52.1-176*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	03/09/2015	Sampling Date:	03/06/2015
Reported:	03/12/2015	Sampling Type:	Soil
Project Name:	MONSANTO STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-005	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BH-2 16' (H500647-04)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifer
Benzene*	<0.050	0.050	03/11/2015	ND	2.09	105	2.00	0.506	
Toluene*	<0.050	0.050	03/11/2015	ND	1.95	97.5	2.00	0.0885	
Ethylbenzene*	<0.050	0.050	03/11/2015	ND	2.31	115	2.00	1.36	
Total Xylenes*	<0.150	0.150	03/11/2015	ND	6.27	104	6.00	1.52	
Total BTEX	<0.300	0.300	03/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 117 % 61-154

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifer
Chloride	960	16.0	03/10/2015	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	Qualifer
GRO C6-C10	<10.0	10.0	03/11/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/11/2015	ND	203	102	200	0.942	

Surrogate: 1-Chlorooctane 86.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	03/09/2015	Sampling Date:	03/06/2015
Reported:	03/12/2015	Sampling Type:	Soil
Project Name:	MONSANTO STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-005	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BH-2 18' (H500647-05)

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	03/11/2015	ND	2.09	105	2.00	0.506	
Toluene*	<0.050	0.050	03/11/2015	ND	1.95	97.5	2.00	0.0885	
Ethylbenzene*	<0.050	0.050	03/11/2015	ND	2.31	115	2.00	1.36	
Total Xylenes*	<0.150	0.150	03/11/2015	ND	6.27	104	6.00	1.52	
Total BTEX	<0.300	0.300	03/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 114 % 61-134

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	03/10/2015	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	03/11/2015	ND	193	96.5	200	1.64	
DRO >C10-C28	<10.0	10.0	03/11/2015	ND	203	102	200	0.942	

Surrogate: 1-Chlorooctane 80.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.5 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

Page 1 of 1

		BILL TO	
Company Name:	Safety & Environmental Solutions, Inc.	P.O. #:	
Project Manager:	Bob Allen	Company:	~~Same~~ OXY
Address:	703 East Clinton	Attn:	Justin Thomas II
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	575-397-0510 Fax #: 575-393-4388	City:	
Project #:	OXY-14-005 Project Owner: OXY	State: Zip:	
Project Name:	Mansanto State Battery	Phone #:	
Project Location:	West of Jal	Fax #:	
Sampler Name:	David Boyer		

ANALYSIS REQUEST: TPH 8015 | BTEX | Chlorides

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME
H500647		G	1			X					X		3/6	1140
1	BH-1 15'	"	"			"					"		"	1205
2	BH-1 17.5'	"	"			"					"		"	1305
3	BH-1 18.5'	"	"			"					"		"	1502
4	BH-2 16'	G	1			X					X		3/6	1535
5	BH-2 18'													

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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 3/7/15	Received By:	Jodi Henson
	Time: 9:50		
Relinquished By:	Date:	Received By:	
	Time:		

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

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 4.4°C

Temp. | Sample Condition: Cool ☑ Yes ☐ No, Intact ☑ Yes ☐ No | CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

#54

Appendix B
C-141

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 Austin Trammell
Address 1017 W. Stanolind Rd. Hobbs, NM 88240	Telephone No. (575) 499-4919
Facility Name Monsanto State Battery	Facility Type Gathering

Surface Owner State	Mineral Owner	API No. n/a

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	16	25S	32E					Lea

Latitude N 32.12676° **Longitude** W 103.67994°

NATURE OF RELEASE

Type of Release Oil and Produced water	Volume of Release 35bbls oil, 35 bbls produced water	Volume Recovered 30 bbls oil, 30 bbls produced water
Source of Release Overload tripped on water transfer pump causing tank overflow	Date and Hour of Occurrence 04/05/2014	Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Tomas Obering-NMOCD	
By Whom? Austin Trammell	Date and Hour 09/08/14	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Automation failur caused the tanks to overflow and leak 35 bbls of oil and 35 bbls of produced water onto the ground. A vacuum truck recovered 30 bbls oil and 30 bbls of the produced water. The automation was repaired

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 60' x 150' on location. Remediation will be completed in accordance with an approved remediation plan from 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:	OIL CONSERVATION DIVISION
Printed Name: Austin Trammell	Approved by Environmental Specialist:
Title: HES Operations Specialist	Approval Date: / Expiration Date:
E-mail Address: Austin_Trammell@oxy.com	Conditions of Approval: / Attached ☐
Date: Phone: (575) 499-4919	

* Attach Additional Sheets If Necessary

Appendix C
Site Photographs

Location Sign


Spill facing northwest


Spill facing north


Spill facing northeast


Spill facing east


Spill facing southeast

Spill facing northeast

Spill facing southwest

Spill facing southwest

Spill facing south