

**RECEIVED**

*By OCD; Dr. Oberding at 10:50 am, Feb 20, 2015*

**OXY USA, Inc.  
North Hobbs Unit North Injection Battery  
Closure Report**

**Section 33, T18S, R38E  
Lea County, New Mexico**

**February 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**

**APPROVED**

*By OCD; Dr. Oberding at 10:50 am, Feb 20, 2015*

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## I. Company Contacts

Representative	Company	Telephone	E-mail
Raymond Aguilar	OXY USA, INC.	575-390-6312	Raymond_a@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 North Hobbs Unit North Injection Battery located in Section 33 of Township 18 South, Range 38 East, Lea County, New Mexico.

According to the C-141 the cause of release was equipment malfunction, the PLC failed causing fluid to go out inlet separator and flare.

## III. Surface and Ground Water

The nearest groundwater of record is approximately 1.0 mile East of the site. The New Mexico Office of State Engineer record is in Section 4 Range 38 East and Township 18 South. The reported depth was 56 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 NMOC (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 1,000 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	X
	>100 feet	0 points	
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)			10

## V. Work Performed

On December 17, 2014, Safety & Environmental Solutions, Inc. was onsite to determine vertical extent of contamination. Samples SP1 – SP9 were taken at Surface. 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<sup>-</sup>) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Sample Date 12/18/2014	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
SP1 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP2 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP3 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP4 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP5 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP6 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP7 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP8 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP9 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300

Sample Date 05/03/2014	Sample ID	Chloride (Cl)	Sample ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)
Depth	Method		Method		
SP1 at Surface	SM4500Cl-B	176	TPH 8015M	<10.0	10.2
SP2 at Surface	SM4500Cl-B	112	TPH 8015M	<10.0	<10.0
SP3 at Surface	SM4500Cl-B	400	TPH 8015M	<10.0	168
SP4 at Surface	SM4500Cl-B	464	TPH 8015M	<10.0	65.9
SP5 at Surface	SM4500Cl-B	96	TPH 8015M	<10.0	<10.0
SP6 at Surface	SM4500Cl-B	<16.0	TPH 8015M	<10.0	<10.0
SP7 at Surface	SM4500Cl-B	<16.0	TPH 8015M	<10.0	<10.0
SP8 at Surface	SM4500Cl-B	<16.0	TPH 8015M	<10.0	<10.0
SP9 at Surface	SM4500Cl-B	32	TPH 8015M	<10.0	<10.0

## VI. Closure

1. Excavated and removed all Chloride contaminated soil transported to Sundance for disposal.
2. The excavated area has been backfilled with native soil and returned to natural grade.
3. No further action is necessary.

## VII. Figures & Appendices

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

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company: OXY	Contact: Raymond Aguilar
Address: 1017 W Stanolind Road	Telephone No. 575-390-6312
Facility Name: North Hobbs Unit North Injection Battery	Facility Type: Oil and Gas Production
Surface Owner: State of New Mexico	Mineral Owner:
Lease No.	

**LOCATION OF RELEASE**

Unit Letter	Section 33	Township 18S	Range 38E	Feet from the	North/South Line	Feet from the	East/West Line	County
-------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	--------

Latitude: 32.70653889 Longitude: -103.16163330

**NATURE OF RELEASE**

Type of Release: Produced Water and Oil	Volume of Release: 5 BBLS Oil 37 BBLS Water	Volume Recovered: 15 BBLS Water
Source of Release: Equipment Malfunction PLC failed	Date and Hour of Occurrence: 10/22/2014 5:30 PM	Date and Hour of Discovery 10/22/2014 5:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Bill Sonomaker	
By Whom? Tony Aguilar 575-397-8251	Date and Hour: 10/22/2014 6:08 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.\*

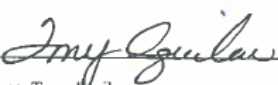
Describe Cause of Problem and Remedial Action Taken.\*

Cause of leak Equipment Malfunction, The PLC failed causing fluid to go out inlet separator and to flare.

Describe Area Affected and Cleanup Action Taken.\*

Safety & Environmental Solutions, Inc. will delineate the spill area and submit an appropriate work plan.

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: Tony Aguilar	Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: Raymond_Aguilar@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/22/2014 Phone: 575-390-6312		

\* Attach Additional Sheets If Necessary

# Final C-141

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
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1000 Rio Brazos Road, Aztec, NM 87410  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
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Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: OXY	Contact: Raymond Aguilar
Address: 1017 W Stanolind Road	Telephone No. 575-390-6312
Facility Name: North Hobbs Unit North Injection Battery	Facility Type: Oil and Gas Production

Surface Owner: State of New Mexico	Mineral Owner:	Lease No.
------------------------------------	----------------	-----------

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	33	18S	38E					

Latitude: 32.70653889 Longitude: -103.16163330

### NATURE OF RELEASE

Type of Release: Produced Water and Oil	Volume of Release: 5 BBLS Oil 37 BBLS Water	Volume Recovered: 15 BBLS Water
Source of Release: Equipment Malfunction PLC failed	Date and Hour of Occurrence: 10/22/2014 5:30 PM	Date and Hour of Discovery: 10/22/2014 5:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Bill Sonomaker	
By Whom? Tony Aguilar 575-397-8251	Date and Hour: 10/22/2014 6:08 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.\*


Cause of leak Equipment Malfunction, The PLC failed causing fluid to go out inlet separator and to flare.

Describe Area Affected and Cleanup Action Taken.\*

The approved workplan has been successfully completed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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.

### OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:	
Printed Name: Tony Aguilar	Approval Date:	Expiration Date:
Title: HES Specialist	Conditions of Approval:	
E-mail Address: Raymond_Aguilar@oxy.com	Attached <input type="checkbox"/>	
Date: 2-20-15	Phone: 575-390-6312	

\* Attach Additional Sheets If Necessary

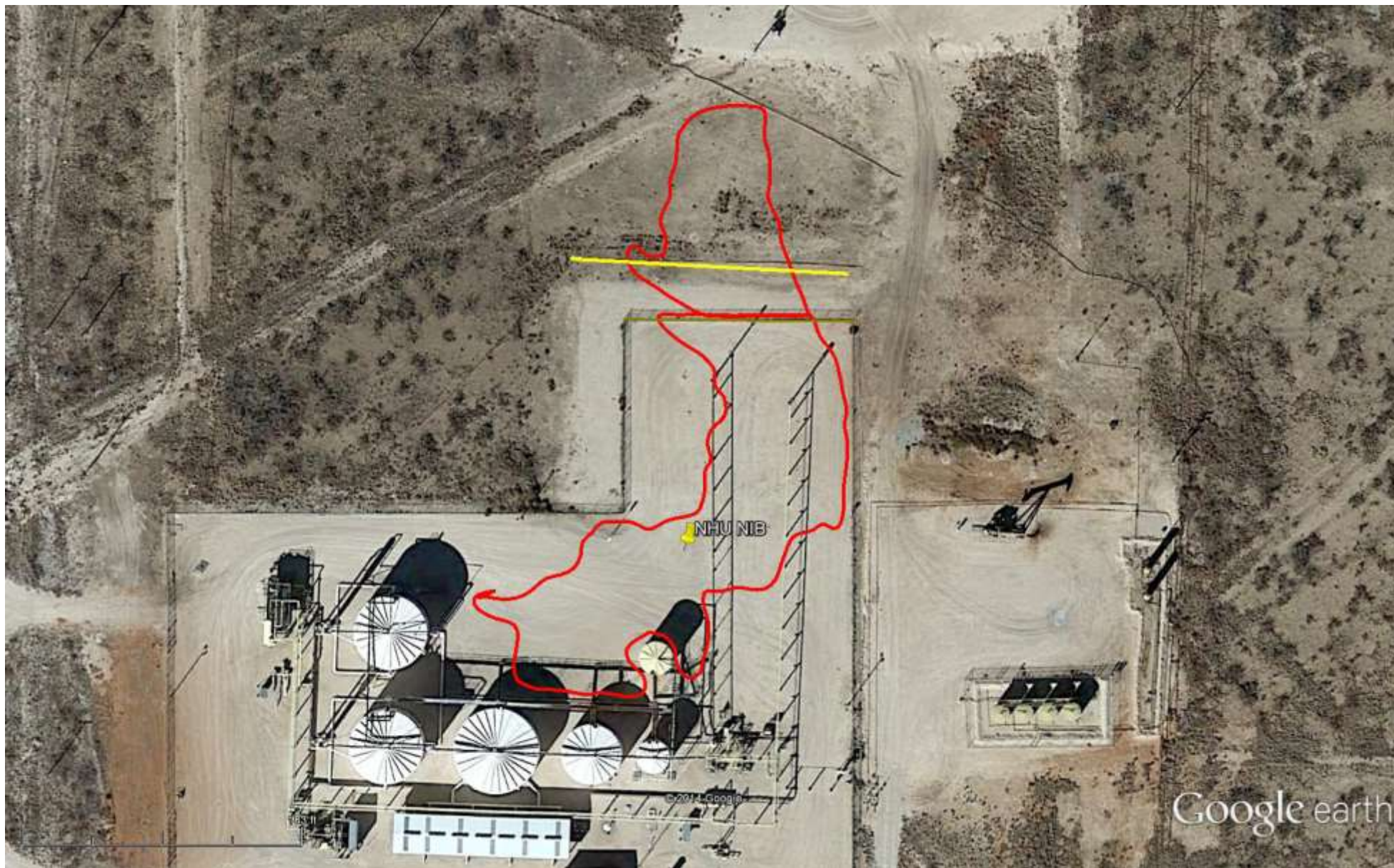
**Figure 1**  
**Vicinity Map**







**Figure 2**  
**Site Plan**



**North Hobbs Unit North Injection Battery**

# **Appendix A**

## **Analytical Results**



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

December 23, 2014

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OXY NHU - NIB

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 11:30.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/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



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: 12/18/2014  
Reported: 12/23/2014  
Project Name: OXY NHU - NIB  
Project Number: OXY - 14 - 032  
Project Location: HOBBS, NM LEA COUNTY

Sampling Date: 12/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP - 1 SURFACE (H403863-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2014	ND	1.75	87.5	2.00	8.93	
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Total BTX	<0.300	0.300	12/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	176	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	10.2	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane 92.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.0 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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: 12/18/2014  
Reported: 12/23/2014  
Project Name: OXY NHU - NIB  
Project Number: OXY - 14 - 032  
Project Location: HOBBS, NM LEA COUNTY

Sampling Date: 12/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP - 2 SURFACE (H403863-02)**

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	12/22/2014	ND	1.75	87.5	2.00	8.93	
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Total BTEX	<0.300	0.300	12/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	112	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane 81.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 78.3 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/18/2014  
Reported: 12/23/2014  
Project Name: OXY NHU - NIB  
Project Number: OXY - 14 - 032  
Project Location: HOBBS, NM LEA COUNTY

Sampling Date: 12/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP - 3 SURFACE (H403863-03)**

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	12/22/2014	ND	1.75	87.5	2.00	8.93	
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Total BTEX	<0.300	0.300	12/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	400	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M									
		mg/kg		Analyzed By: MS					

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	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	168	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane 90.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.2 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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: 12/18/2014  
Reported: 12/23/2014  
Project Name: OXY NHU - NIB  
Project Number: OXY - 14 - 032  
Project Location: HOBBS, NM LEA COUNTY

Sampling Date: 12/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP - 4 SURFACE (H403863-04)**

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)	104 %	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	464	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M	mg/kg								

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	65.9	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane	86.0 %	47.2-157
Surrogate: 1-Chlorooctadecane	85.8 %	52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/18/2014  
Reported: 12/23/2014  
Project Name: OXY NHU - NIB  
Project Number: OXY - 14 - 032  
Project Location: HOBBS, NM LEA COUNTY

Sampling Date: 12/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP - 5 SURFACE (H403863-05)**

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	12/22/2014	ND	1.75	87.5	2.00	8.93	
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Total BTEX	<0.300	0.300	12/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	96.0	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						

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	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane 88.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.6 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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: 12/18/2014  
Reported: 12/23/2014  
Project Name: OXY NHU - NIB  
Project Number: OXY - 14 - 032  
Project Location: HOBBS, NM LEA COUNTY

Sampling Date: 12/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP - 6 SURFACE (H403863-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2014	ND	1.75	87.5	2.00	8.93	
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Total BTEX	<0.300	0.300	12/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/19/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane 86.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.6 % 52.1-176

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\*=Accredited Analyte

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*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager

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**Analytical Results For:**

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

Received: 12/18/2014  
Reported: 12/23/2014  
Project Name: OXY NHU - NIB  
Project Number: OXY - 14 - 032  
Project Location: HOBBS, NM LEA COUNTY

Sampling Date: 12/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP - 7 SURFACE (H403863-07)**

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	12/22/2014	ND	1.75	87.5	2.00	8.93	
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Total BTEX	<0.300	0.300	12/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/19/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane 84.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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: 12/18/2014  
Reported: 12/23/2014  
Project Name: OXY NHU - NIB  
Project Number: OXY - 14 - 032  
Project Location: HOBBS, NM LEA COUNTY

Sampling Date: 12/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP - 8 SURFACE (H403863-08)**

BTEX 80218			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2014	ND	1.75	87.5	2.00	8.93	
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Total BTEX	<0.300	0.300	12/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/19/2014	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane 86.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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: 12/18/2014  
Reported: 12/23/2014  
Project Name: OXY NHU - NIB  
Project Number: OXY - 14 - 032  
Project Location: HOBBS, NM LEA COUNTY

Sampling Date: 12/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP - 9 SURFACE (H403863-09)**

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92	
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane 88.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.2 % 52.1-176

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*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager

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**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager





ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

Company Name: Safety & Environmental Solutions, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: Bob Allen		Company: Same OXY																	
Address: 703 East Clinton		Attn: Rachel Jordan																	
City: Hobbs State: NM Zip: 88240		Address: 6000 Dr. 6000																	
Phone #: 575-397-0510 Fax #: 575-393-4388		City: MIDLAND																	
Project #: OXY-14-032 Project Owner: OXY		State: TX Zip: 79710																	
Project Name: OXY NHU-NIB		Phone #: 412-685-5912																	
Project Location: 666603, N.W. Lea County		Fax #:																	
Sampler Name: SOSA, Jerm		PRESERV:		SAMPLING															
FOR USE ONLY																			
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME	TPH	BTEX	CHLORIDES		
HH038403	SP-1 Surface	X	1										12/17	0425	X	X	X		
	SP-2 Surface	X	1										12/17	0500	X	X	X		
	SP-3 Surface	X	1										12/17	0530	X	X	X		
	SP-4 Surface	X	1										12/17	0545	X	X	X		
	SP-5 Surface	X	1										12/17	1120	X	X	X		
	SP-6 Surface	X	1										12/17	1140	X	X	X		
	SP-7 Surface	X	1										12/17	1205	X	X	X		
	SP-8 Surface	X	1										12/17	1220	X	X	X		
	SP-9 Surface	X	1										12/17	1240	X	X	X		
Delivered By: (Circle One) 5.4e		Temp. Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (initials)													
Sampler - UPS - Bus - Other: #54																			
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.																			
Remarks:																			
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <input type="text"/>		Add'l Fax #: <input type="text"/>													

## **Appendix B**

### **C-141**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

<b>OPERATOR</b>		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company: OXY		Contact: Raymond Aguilar	
Address: 1017 W Stanolind Road		Telephone No. 575-390-6312	
Facility Name: North Hobbs Unit North Injection Battery		Facility Type: Oil and Gas Production	
Surface Owner: State of New Mexico		Mineral Owner:	Lease No.

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	33	18S	38E					

Latitude: 32.70653889 Longitude: -103.16163330

**NATURE OF RELEASE**

Type of Release: Produced Water and Oil	Volume of Release: 5 BBLS Oil 37 BBLS Water	Volume Recovered: 15 BBLS Water
Source of Release: Equipment Malfunction PLC failed	Date and Hour of Occurrence: 10/22/2014 5:30 PM	Date and Hour of Discovery 10/22/2014 5:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Bill Sonomaker	
By Whom? Tony Aguilar 575-397-8251	Date and Hour: 10/22/2014 6:08 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.\*

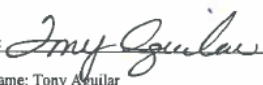
Describe Cause of Problem and Remedial Action Taken.\*

Cause of leak Equipment Malfunction, The PLC failed causing fluid to go out inlet separator and to flare.

Describe Area Affected and Cleanup Action Taken.\*

Safety & Environmental Solutions, Inc. will delineate the spill area and submit an appropriate work plan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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: Tony Aguilar		Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Raymond_Aguilar@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/22/2014	Phone: 575-390-6312		

\* Attach Additional Sheets If Necessary

## **Appendix C**

### **Site Photographs**

