OXY USA, Inc. North Hobbs Unit North Injection Battery Delineation Report and Work Plan

Section 33, T18S, R38E Lea County, New Mexico

December 19, 2014



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

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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 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 1,000 ppm Total Petroleum Hydrocarbons (TPH).

Depth to Ground Water:			
(Vertical distance from contaminants to	Less than 50 feet	20 points	
seasonal high water elevation of	50 feet to 99 feet	10 points	X
groundwater)	>100 feet	0 points	
Wellhead Protection Area:			
(Less than 200 feet from a private domestic	Yes	20 points	
water source; or less than 1000 feet from all	No	0 points	X
other water sources)			
Distance to Surface Water:			
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	
canals and ditches)	>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⁻) (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 (CI)	Sample ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)
Depth	Method		Method		
SP1 at Surface	SM4500CI-B	176	TPH 8015M	<10.0	10.2
SP2 at Surface	SM4500CI-B	112	TPH 8015M	<10.0	<10.0
SP3 at Surface	SM4500CI-B	400	TPH 8015M	<10.0	168
SP4 at Surface	SM4500CI-B	464	TPH 8015M	<10.0	65.9
SP5 at Surface	SM4500CI-B	96	TPH 8015M	<10.0	<10.0
SP6 at Surface	SM4500CI-B	<16.0	TPH 8015M	<10.0	<10.0
SP7 at Surface	SM4500CI-B	<16.0	TPH 8015M	<10.0	<10.0
SP8 at Surface	SM4500CI-B	<16.0	TPH 8015M	<10.0	<10.0
SP9 at Surface	SM4500CI-B	32	TPH 8015M	<10.0	<10.0

VI. Action Plan

Due to the results listed above the following action plan is proposed:

- 1. Excavate remove all contaminated soil transport to an approved NMOCD facility for disposal.
- 2. The excavated area will be 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

			Rele	ease Notific	ation	and Co	rrective A	ction	1	_		
						OPERA'	ΓOR		☑ Initi	al Report		Final Report
Name of Co	mpany: O	XY					aymond Aguila					
Address: 10	17 W Stan	olind Road					No. 575-390-6					
Facility Nai	me: North I	Hobbs Unit	North Inj	ection Battery		Facility Ty	pe: Oil and Gas	s Produ	ction			
Surface Ow	ner: State o	of New Mex	cico	Mineral O	wner:				Lease 1	No.		
				LOCA	TIOI	N OF REI	LEASE					
Unit Letter	Section 33	Township 18S	Range 38E	Feet from the	North/	South Line	Feet from the	East/V	West Line	County		
			Latit	ude: 32,7065388	89 I	ongitude: -	103.16163330					
				NATI	URE	OF REL	EASE					
Type of Rele						Volume of				Recovered:		
Produced Wa Source of Re							I 37 BBLS Wate		15 BBLS			
Equipment M		PLC failed				10/22/2014		e:		Hour of Dis 14 5:30 PM		
Was Immedia		liven?				If YES, To	Whom?		10,22,20			
				No Not Rec	quired	Bill Sonor	naker					
By Whom? T			51				Iour: 10/22/2014					
Was a Water	course Reacl	_	Yes 🖂	l No		If YES, Vo	lume Impacting t	the Wate	ercourse.			
If a Watercou	irse waş Imp	pacted, Descr	ibe Fully.*									
												İ
D :1 0												
Describe Cau	se of Proble	m and Reme	dial Action	Taken.*								
Cause of leak	Equipment	Malfunction	The PLC	failed causing flui	d to go	out inlet sens	arator and to flare	b.				
Describe Area	A ffeeted o	nd Classum A	ation Tak	*								
Describe Area	a Amecieu a	na Cleanup A	action Tak	en.								
Safety & Env	ironmental S	Solutions, Inc	. will deli	neate the spill area	and su	bmit an appro	priate work plan					
							-					
I hereby certi	fy that the in	oformation of	ven above	is true and comple	to to th	a hast of my	Imanila dae and in		. d 4b a4		000	1 1
regulations al	l operators a	are required to	o report an	d/or file certain rel	ease no	otifications ar	nd nerform correc	tive acti	ons for rela	eases which	may er	ndanger
public health	or the enviro	onment. The	acceptance	e of a C-141 report	t by the	NMOCD ms	arked as "Final R	enort" d	nes not reli	ieve the one	rator of	Liability
should their o	perations ha	ive failed to a	ıdequatelv	investigate and rer	nediate	contamination	on that nose a thre	eat to gr	ound water	surface wa	ter hu	man health
federal, state,	ment. In ad or local law	idition, NMU is and/or requ	CD accept	tance of a C-141 re	port de	oes not relieve	e the operator of	responsi	bility for co	ompliance w	rith any	other /
	o. room zum	o androi regu	· · · ·				OIL CON	SERV	ATION	DIVISIO	N	
	2	. 1				OIL COIN	V Milli	ATION	אנטו א זיקר	714		
Signature:	my	Lace	lac		_							
Printed Name	: Tony Agui	ilar O			1	Approved by	District Superviso	OL:				
Title: HES Specialist						Approval Date		,	Danimatic - 1	Datas		
						approvai Dati	c		Expiration 1	Date:		
E-mail Addre	ss: Raymono	d_Aguilar@o	xy.com		(Conditions of	Approval:			Attached		
Date: 10/22/2	014		Phone: 57	5-390-6312						Anacired		
Attack Addis			. 11011C. 37	J-J70-0312								

Attach Additional Sheets If Necessary

Figure 1 Vicinity Map

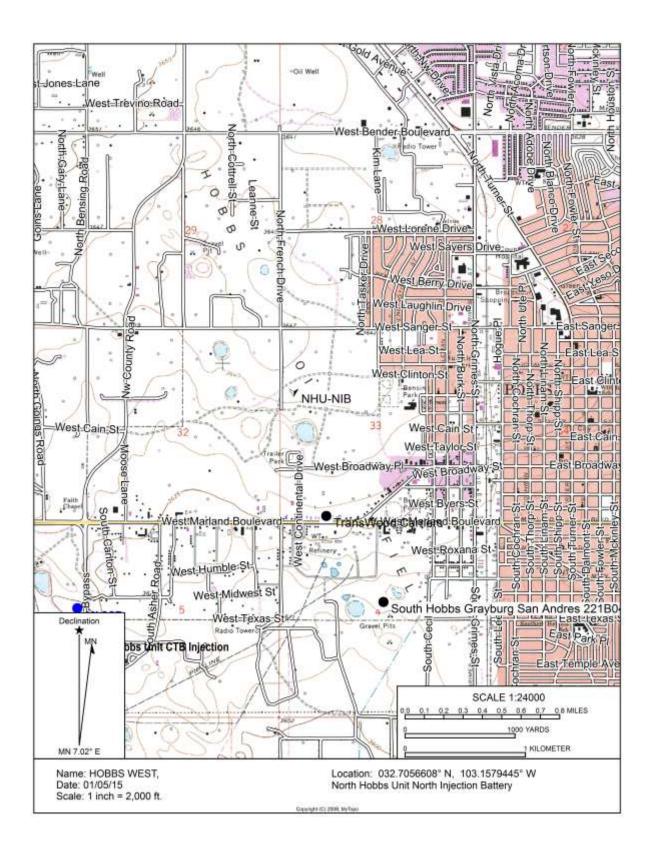
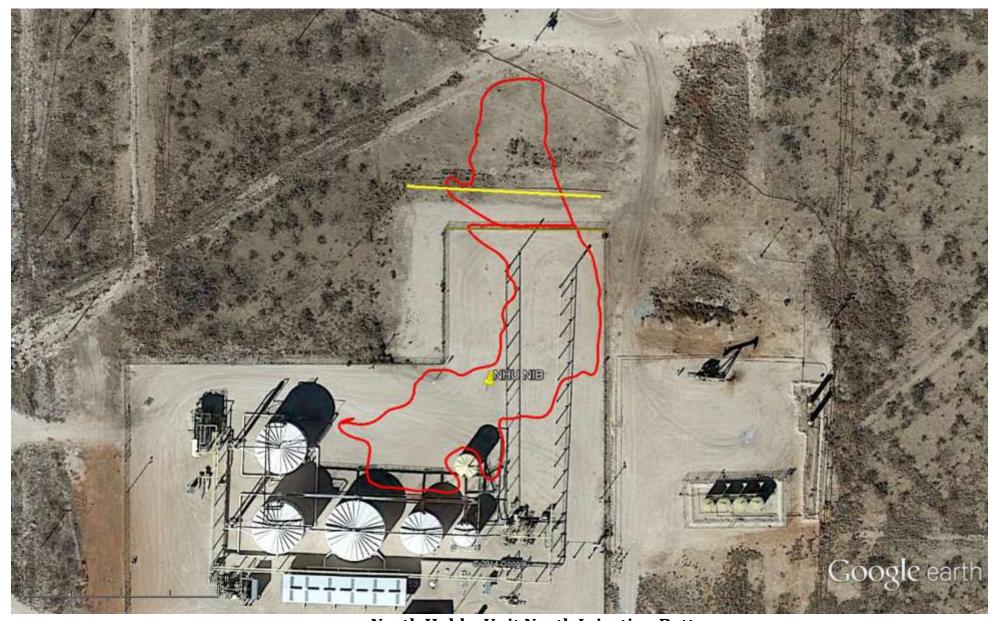


Figure 2 Site Plan



North Hobbs Unit North Injection Battery

Appendix A Analytical Results



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/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited in a certifi.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)

Celey D. Keine

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

Lab Director/Quality Manager

Page 1 of 12



Analytical Results For:

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

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

Sampling Type: Sampling Condition: Sample Received By:

Sampling Date:

12/17/2014 Soil Cool & Intact

Jodi Henson

Sample ID: SP - 1 SURFACE (H4	103863-	01)							
BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	Analyze	d 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	Analyze	d 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	% 47.2-151	7						
Surrogate: 1-Chlorooctadecane	89.0	% 52.1-170	ő						

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REAGE NOTE: Liability and Danages. Cardina's liability and clients exclusive remarky for any claim arising, whether based in contract or bort, shall be limited to the amount paid by client for anxietyses. All claims, including those for negligence and any other cause whatevoer shall be deemed wised urises made in writing and recovered by Cardinal whith thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whiteval intelliancy, business intermediates, or loss intermediates, or loss intermediates, business intermediates, business intermediates, or loss intermediates or consequentiated damages, and an arrive of the services intermediates. All damages, and an arrive of the services intermediates or consequentiated or consequentiates o

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 12



Analytical Results For:

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

12/18/2014 12/17/2014 Received: Sampling Date: Reported: 12/23/2014 Sampling Type: Soil Sampling Condition: OXY NHU - NIB Cool & Intact Project Name: OXY - 14 - 032 Project Number: Sample Received By: Jodi Henson Project Location: HOBBS, NM LEA COUNTY

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 5	% 61-154							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS				0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	78.3	% 52.1-17	ő .						

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RESE NOTE: Unbilly and Damages. Cardwart liability and districts exclusive remark for any dains straing, whether based in content or bot, shall be timited to the amount past by client for analyses. All dains, including those for negligence and any other counse whethere shall be desired waved unless made in writing and received by Certinal within titrly (30) days after completion of the applicable service. In no event shall Cardwal be table for incidental or consequential domages, including, which intellians, success intelligence, successors entiring out of or metalled to the performance of the services hereunder by Cardwal, regardless of whether such dama to best upon any of the above standard research or otherwise. Install refearch or otherwise. Install refearch or the services the removable cours in with with writing approval of clarified aboversaries.

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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 12/23/2014 OXY NHU - NIB Reported: Project Name: Project Number: OXY - 14 - 032 Project Location: HOBBS, NM LEA COUNTY Sampling Date: 12/17/2014 Sampling Type: Soil Cool & Intact Sampling Condition: Sample Received By: Jodi Henson

Sample ID: SP - 3 SURFACE (H-	403863-0	03)							
BTEX 8021B	mg/	'kg	Analyze	d 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	i de						
Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg		Analyze	d 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	Analyze	d 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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.2	% 52.1-17	6						

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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

12/18/2014 12/17/2014 Received: Sampling Date: 12/23/2014 Sampling Type: Reported: Soil OXY NHU - NIB Sampling Condition: Cool & Intact Project Name: Project Number: OXY - 14 - 032 Sample Received By: Jodi Henson Project Location: HOBBS, NM LEA COUNTY

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

BTEX 8021B	mg/	kg	Analyze	d 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	1049	6 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	65.9	10.0	12/22/2014	ND	204	102	200	1.30	
Surrogate: 1-Chlorooctane	86.05	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.8 5	6 52.1-170	5						

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NEASE MOTE. Liability and Damages. Cardina's liability and clients enclasive remely fivr any client range whether based in coronact or tord, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whethere shall be deemed where clients make in writing and memoral by Cardinal limitin that y (3)) days after completion of the applicable service. In no event shall Cardinal be likely the including, without limitings, business interrigions, loss or use or loss or loss, or loss of profits insured by client, its subsidiaries, affiliates or accessors arising out of or maked to the performance of the services bereather by Cardinal, inspired on any of the above stated reasons or otherwise. Header-relate only to the samples identified become this reproduced except in of white without approved of cliental substantials.

Celeog & Keine

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

12/18/2014 12/17/2014 Received: Sampling Date: Reported: 12/23/2014 Sampling Type: Soil OXY NHU - NIB Sampling Condition: Cool & Intact Project Name: Project Number: OXY - 14 - 032 Sample Received By: Jodi Henson Project Location: HOBBS, NM LEA COUNTY

Sample ID: SP - 5 SURFACE (H4		32.3							
BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	96.0	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.6	% 52.1-17	ő .						

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PLACE MOTE: Liability and Camages. Cardwall liability and clercs endusive remely for any clem atomy, whether based in contact or tort, shall be limited to the amount past by client for analyses. All claims, including those for negligence and any other cause whetconver shall be downed waved unless made in writing and received by Cardinal within their (30) days after completion of the applicable service. In no event shall Cardwall be lable for included or consequential downaps, including, without intensity, and contact an including performance of the services hermander by Cardinal, regardless of whether such claims believely only the above tasted enteriors or deliverse. Including values refer to the contact and with white heappoint of clarified abovernance.

Celeg D. Keene

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 - 6 SURFACE (H403863-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.6	% 52.1-17	ő.						

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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

BTEX 8021B	mg/	kg	Analyze	d 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 9	61-154	<u> </u>						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	82.5	% 52.1-17	ń						

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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 - 8 SURFACE (H403863-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	Qualifie
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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	82.5	% 52.1-17	5						

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Celey D. Keene, Lab Director/Quality Manager

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12/17/2014

Cool & Intact

Jodi Henson

Soil



Analytical Results For:

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

12/18/2014 Received: Sampling Date: 12/23/2014 Reported: Sampling Type: OXY NHU - NIB Project Name: Sampling Condition: Project Number: OXY - 14 - 032 Sample Received By: HOBBS, NM LEA COUNTY Project Location:

Sample ID: SP - 9 SURFACE (H4	403863-0	9)							
BTEX 8021B	mg/	kg	Analyze	d 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 9	6 61-154	(j <mark>-</mark>						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.2	% 52.1-17	ő.						

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Notes and Definitions

RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
S	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

Analyte NOT DETECTED at or above the reporting limit

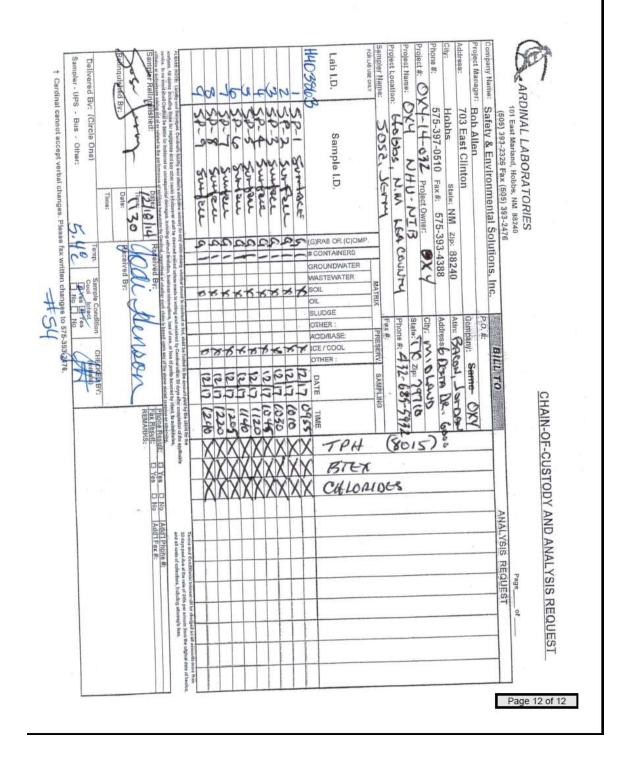
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Celey D. Keene, Lab Director/Quality Manager

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Appendix B C-141 District. J 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Orand 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 abmit 2 Copies to appropriate

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

				ease Notif		I MILL CO	DIRECTIVE L					
						OPERA'			☑ Initia	al Report		Final Rep
Name of Co							aymond Aguila					
Address: 10			NT	ection Battery		Telephone	No. 575-390-6	312				
				ection Battery		Facility Ty	/pe: Oil and Ga	s Produ	ction			
Surface Own	ner: State	of New Mex	cico	Mineral	Owner:				Lease N	No.		
				LOC	ATIO	N OF RE	LEASE					
Unit Letter	Section 33	Township 18S	Range 38E	Feet from the	North	South Line	Feet from the	East/	West Line	County		
			Latit	ude: 32,7065	3889 I	ongitude: -	-103.16163330					
				NA	TURE	OF REL						
Type of Relea Produced Wa						Volume of	Release: il 37 BBLS Wat		Volume I 15 BBLS	Recovered:		
Source of Rel							Hour of Occurren			Hour of Dis	covery	
Equipment M	lalfunction	PLC failed				10/22/2014				14 5:30 PM		
Was Immedia	ate Notice C		Yes	No Not 1	Required	If YES, To Bill Sonor	Whom? maker					
		r 575-397-82	51			Date and F	Hour: 10/22/2014	6:08 PN	1			
Was a Watero	course Reac		Yes 🗵	No		If YES, Vo	olume Impacting	the Wat	ercourse.			
If a Watercon	rse was Im	pacted, Descr	ibe Fully.*									
Describe Caus		em and Reme						-				-
Describe Caus	se of Proble		dial Action	n Taken.*	luid to go	out inlet sep	arator and to flare	a.				
Describe Cause Cause of leak	se of Proble	Malfunction	dial Action	n Taken.* failed causing f	luid to go	out inlet sep	arator and to flare	ē.				
Describe Cause Cause of leak Describe Area	se of Proble Equipment	Malfunction	dial Action , The PLC Action Tak	n Taken.* failed causing f			arator and to flare					
Describe Cause of leak Describe Area Safety & Envi hereby certif egulations all public health of	Equipment a Affected a ironmental fy that the it or the envir perations to ment. In ac	Malfunction, and Cleanup A Solutions, Incompared to comment. The average failed to a didition, NMO	dial Action Tak Action Tak wen above report an acceptanc dequately CD accept	n Taken. * failed causing f en. * neate the spill au is true and com d/or file certain e of a C-141 re investicate and	plete to the release not soort by the remediate	bmit an appropriate best of my be		inderstai	ons for rele oes not reli	eases which ieve the oper	may er	ndanger Fliability
Describe Cause of leak Describe Area Safety & Envi I hereby certifications all public health of the color of the environ federal, state,	Equipment a Affected a ironmental fy that the it or the envir perations to ment. In ac	Malfunction, and Cleanup A Solutions, Incompared to comment. The average failed to a didition, NMO	dial Action Tak Action Tak wen above report an acceptanc dequately CD accept	n Taken. * failed causing f en. * neate the spill au is true and com d/or file certain e of a C-141 re investicate and	plete to the release not soort by the remediate	bmit an appropriate best of my be	knowledge and und perform corrections as "Final the correction to the correction of the correction that mose a the	inderstai ctive acti leport" d eat to gr responsi	ons for rele oes not reli ound water bility for co	eases which ieve the oper , surface wa ompliance w	may en rator of iter, hu vith any	ndanger Fliability
Describe Cause Cause of leak Describe Area Safety & Envi I hereby certifi regulations all public health of should their op or the environ federal, state,	Equipment a Affected a ironmental fy that the in or local law a Cor local law a Affected a a	Malfunction, and Cleanup A Solutions, Incomposition gives required to comment. The ave failed to a ddition, NMO yes and/or regu	dial Action Tak Action Tak wen above report an acceptanc dequately CD accept	n Taken. * failed causing f en. * neate the spill au is true and com d/or file certain e of a C-141 re investicate and	plete to the release not by the remediate of report do	bmit an appro- ne best of my otifications ar NMOCD m: contaminations not relieve	knowledge and und perform correcarked as "Final Roon that pose a three the operator of	inderstai ctive acti leport" d eat to gr responsi SERV	ons for rele oes not reli ound water bility for co	eases which ieve the oper , surface wa ompliance w	may en rator of iter, hu vith any	ndanger Fliability
Describe Cause of leak Describe Area Safety & Envi I hereby certifications all public health of should their of the environ federal, state, Signature: Printed Name:	Equipment a Affected a ironmental fy that the it operators or the envir perations hument. In ac or local law	Malfunction, and Cleanup A Solutions, Incomposition gives required to comment. The ave failed to a ddition, NMO yes and/or regu	dial Action Tak Action Tak wen above report an acceptanc dequately CD accept	n Taken. * failed causing f en. * neate the spill au is true and com d/or file certain e of a C-141 re investicate and	plete to the release moort by the remediate is reported.	bmit an appro- ne best of my otifications ar NMOCD m: contaminations not relieve	knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of OIL CON District Supervis	inderstai ctive active deport" deeat to gr responsi SERV	ons for rele oes not reli ound water bility for co	eases which leve the oper , surface wa ompliance w	may en rator of iter, hu vith any	ndanger Fliability
Describe Cause of leak Describe Area Safety & Envi	se of Proble Equipment a Affected a ironmental fy that the in l operators a or the envir perations ha ment. In a or local law Tony Agu ecialist	Malfunction, and Cleanup A Solutions, Incomposition gives required to comment. The ave failed to a didition, NMO as and/or regular	dial Action, The PLC Action Take action Take wen above o report an acceptance dequately CD accept lations.	n Taken. * failed causing f en. * neate the spill au is true and com d/or file certain e of a C-141 re investicate and	plete to the release moort by the remediated report do	bmit an appro- ne best of my otifications are NMOCD materials and relieve	knowledge and und perform correct arked as "Final R on that pose a three the operator of OIL CON District Supervise:	inderstai ctive active deport" deeat to gr responsi SERV	ions for rele loes not reli lound water bility for co	eases which leve the oper , surface wa ompliance w	may errator of ter, hu with any	ndanger Fliability
Describe Cause of leak Describe Area Safety & Envi I hereby certified regulations all public health of the environ federal, state, Signature: Printed Name:	se of Proble Equipment a Affected a ironmental if by that the in l operators a or the envir perations him ent. In a or local law Tony Agu ecialist ss: Raymon	Malfunction, and Cleanup A Solutions, Incomposition gives required to comment. The ave failed to a ddition, NMO as and/or regular dd Aguilar@o	dial Action, The PLC Action Take wen above to report an acceptance dequately acceptance of the public of the publ	n Taken. * failed causing f en. * neate the spill au is true and com d/or file certain e of a C-141 re investicate and	plete to the release moort by the remediated report do	bmit an appro- tice best of my tifications are NMOCD me contamination to not relieve Approved by Approved Dat	knowledge and und perform correct arked as "Final R on that pose a three the operator of OIL CON District Supervise:	inderstai ctive active deport" deeat to gr responsi SERV	ions for rele loes not reli lound water bility for co	eases which leve the oper c, surface wa compliance w DIVISIO	may errator of ter, hu with any	ndanger Fliability

Appendix C Site Photographs

