# OXY USA, Inc. South Hobbs Unit 29 Delineation Report and Work Plan 3526 Section 5, T19S, R38E Lea County, New Mexico

February 23, 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

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# I. Company Contacts

Representative	Company	Telephone	E-mail
Raymond Aguilar	OXY USA, INC.	575-390-6312	Raymond_aguilar@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 South Hobbs Unit 29 located in Section 5 of Township 19 South, Range 38 East, Lea County, New Mexico.

According to the C-141 the cause of release was external corrosion.

# III. Surface and Ground Water

The nearest groundwater of record is approximately 1.0 mile from the site. The New Mexico Office of State Engineer record is in Section 5 Range 38 East and Township 19 South. The reported depth was 26 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 5,000 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	
groundwater)	>100 feet	0 points	Х
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	Х
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	Χ
RANKING SCORE (TOTAL POINTS)			0

# V. Work Performed

On January 27, 2015, SESI was onsite to determine vertical extent of contamination using boreholes. Samples BH-1 was taken at a depth of 2' ft., 4' ft. and 6.5' ft. Samples BH-2 were taken at 2' ft. and 4 ft. BH-3 were taken at 2' ft. and 4 ft. BH-4 were taken at 2' ft. and 3' ft. BH-5 were taken at 2' ft. and 3.5-3.8' ft. BH-6 were taken at 2' ft. and 3-3.4' ft. BH-7 were taken at 2' ft. and 3-3.8' ft. BH-8 were taken at 2' ft. and 3.5-4' ft. 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 (CI<sup>-</sup>) (Method SM4500CI-B). The results of the analysis are presented in the table below:

Sample Date 1/27/2015	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
BH-1 at 2'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	< 0.300
BH-1 at 4'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	< 0.300
BH-1 at 6.5'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	< 0.300
BH-2 at 2'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	< 0.300
BH-2 at 4'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
BH-3 at 2'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	< 0.300
BH-3 at 4'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	< 0.300
BH-4 at 2'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
BH-4 at 3'	BTEX 8021B	<0.050	<0.050	< 0.050	<0.150	< 0.300

Sample Date 01/27/2015	Sample ID	Chloride (Cl)	Sample ID	GRO (C₀-C₁₀) (mg/kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)
Depth	Method		Method		
BH-1 at 2'	SM4500CI-B	464	TPH 8015M	<10.0	<10.0
BH-1 at 4'	SM4500CI-B	496	TPH 8015M	<10.0	<10.0
BH-1 at 6.5'	SM4500CI-B	384	TPH 8015M	<10.0	<10.0
BH-2 at 2'	SM4500CI-B	464	TPH 8015M	<10.0	<10.0
BH-2 at 4'	SM4500CI-B	368	TPH 8015M	<10.0	<10.0
BH-3 at 2'	SM4500CI-B	416	TPH 8015M	<10.0	<10.0
BH-3 at 4'	SM4500CI-B	272	TPH 8015M	<10.0	<10.0
BH-4 at 2'	SM4500CI-B	544	TPH 8015M	<10.0	<10.0
BH-4 at 3'	SM4500CI-B	480	TPH 8015M	<10.0	<10.0

Sample Date 1/28/2015	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
BH-5 at 2'	BTEX 8021B	<0.050	<0.050	< 0.050	<0.150	<0.300
BH-5 at 3.5-3.8'	BTEX 8021B	<0.050	<0.050	< 0.050	<0.150	<0.300
BH-6 at 2'	BTEX 8021B	<0.050	<0.050	< 0.050	<0.150	<0.300
BH-6 at 3-3.4'	BTEX 8021B	<0.050	<0.050	< 0.050	<0.150	<0.300
BH-7 at 2'	BTEX 8021B	<0.050	<0.050	< 0.050	<0.150	<0.300
BH-7 at 3-3.8'	BTEX 8021B	<0.050	<0.050	< 0.050	<0.150	<0.300
BH-8 at 2'	BTEX 8021B	<0.050	<0.050	< 0.050	<0.150	<0.300
BH-8 at 3.5-4'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300

Sample Date 01/28/2015	Sample ID	Chloride (Cl)	Sample ID	GRO (C₀-C₁₀) (mg/kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)
Depth	Method		Method		
BH-5 at 2'	SM4500CI-B	3160	TPH 8015M	<10.0	<10.0
BH-5 at 3.5-3.8'	SM4500CI-B	1660	TPH 8015M	<10.0	<10.0
BH-6 at 2'	SM4500CI-B	96.0	TPH 8015M	<10.0	<10.0
BH-6 at 3-3.4'	SM4500CI-B	96.0	TPH 8015M	<10.0	<10.0
BH-7 at 2'	SM4500CI-B	32.0	TPH 8015M	<10.0	<10.0
BH-7 at 3-3.8'	SM4500CI-B	16.0	TPH 8015M	<10.0	<10.0
BH-8 at 2'	SM4500CI-B	544	TPH 8015M	<10.0	<10.0
BH-8 at 3.5-4'	SM4500CI-B	272	TPH 8015M	<10.0	<10.0

Sample Date 01/28/2015	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
AH-1 at 2'	BTEX 8021B	<0.050	< 0.050	<0.050	<0.150	<0.300
AH-1 at 3'6"	BTEX 8021B	<0.050	< 0.050	<0.050	<0.150	<0.300
Sample Date 01/28/2015	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			
AH-1 at 2'	SM4500CI-B	432	TPH 8015M	<10.0	<10.0	
AH-1 at 3'6"	SM4500CI-B	464	TPH 8015M	<10.0	<10.0	

# VI. Action Plan

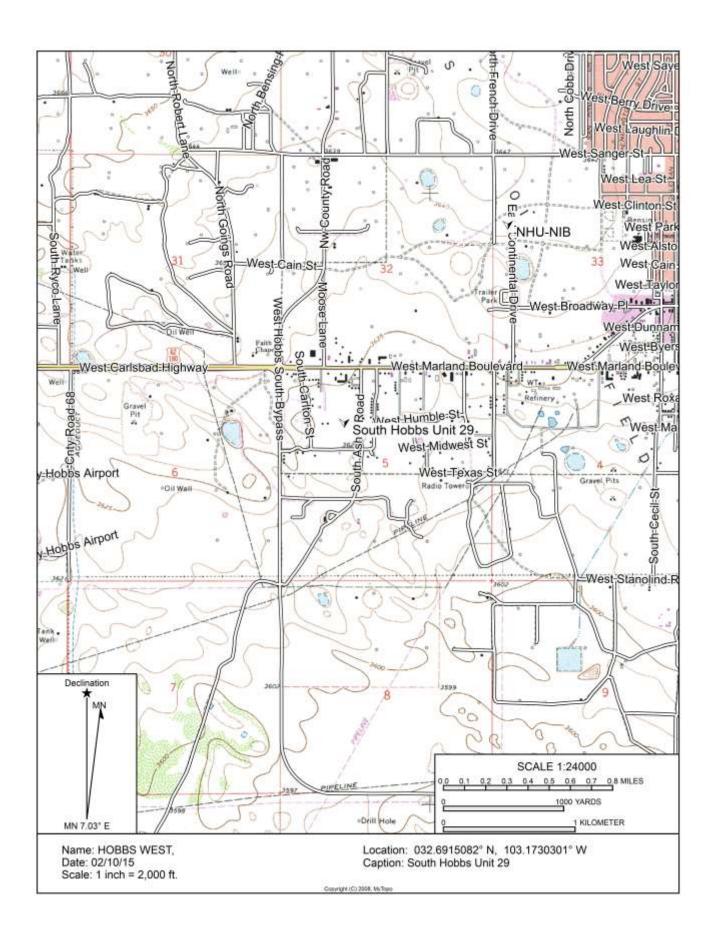
Due to the results listed above the following action plan is proposed:

Excavate and remove all Chloride contaminated soil to the depth where the concentration is 250 PPM chlorides and 100 TPH. Contaminated soils will be transported to an approved NMOCD facility for disposal. The excavated area will be backfilled with native soil and returned to natural grade. Composite confirmation samples will be taken from the sides and bottom of the excavation area.

# VII. Figures & Appendices

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

# Figure 1 Vicinity Map



# Figure 2 Site Plan



South Hobbs Unit 29

Appendix A Analytical Results





		Safi Bob 703 Hob	Allen East Clinton bs NM, 88240	) 393-4388					
Received: Reported: Project Name: Project Number: Project Location:	OXY-15- HOBBS,	015 015 HOBBS UNIT #29 006		Sar Sar Sar	npling Da npling Ty npling Co nple Rece	rpe:	01/27/2 Soil Cool & Jodi He	Intact	
ample ID: BH - 1 2' <mark>(</mark> H500262 TEX 8021B	2-01)	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
enzene*	< 0.050	0.050	01/30/2015	ND	1.84	92.0	2.00	9.13	1.000
oluene*	< 0.050	0.050	01/30/2015	ND	1.75	87.3	2.00	9.81	
thylbenzene*	< 0.050	0.050	01/30/2015	ND	1.67	83.7	2.00	10.2	
otal Xylenes*	<0.150	0.150	01/30/2015	ND	5.00	83.3	6.00	9.92	
otal BTEX	<0.300	0.300	01/30/2015	ND	5.00	00.5	0.00	3.32	
urrogate: 4-Bromofluorobenzene (PID hloride, SM4500Cl-B	99.4 mg,			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
hloride	464	16.0	01/29/2015	ND	416	104	400	0.00	
PH 8015M	mg,	/kg	Analyze	d By: MS	100010		0.000		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
RO C6-C10	<10.0	10.0	01/29/2015	ND	202	101	200	1,67	
RO >C10-C28	<10.0	10.0	01/29/2015	ND	201	100	200	5.99	
urrogate: 1-Chlorooctane urrogate: 1-Chlorooctadecane	104 124								
Cardinal Laboratories NLSKE NOTE: Leality and Damages. Cardina's leality any other cause wheteomer shall be deemed wheted including, whose limitation, because interruptions, loss of data to beend upon any of the above stated mesons or otherwise.	ntess made in fuse, or loss	writing and received by Cr of profils incurred by client	rdinal within thirty (30) , its subsidiaries, affiliate	days after completion or is or successors artising of	The applicable aut of or reliab	at to the performance	t shall Cardinal be liable	aims, including the for incidental or	ted Analyte se to regigence consequented dama dass of whether s
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-	CARDINAL Laboratories	
	Laboratories	

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		Analy	tical Resul	ts For:					
		Bob 703 Hob	ety & Environm Allen East Clinton bs NM, 88240 To: (575)	ental Solutions					
Received: Reported: Project Name: Project Number: Project Location:	01/28/201 02/03/201 SOUTH H OXY-15-0 HOBBS, N	15 OBBS UNIT #29 06		Sai Sai	npling Da npling Ty npling Co nple Rece	pe: ndition:	01/27/ Soil Cool & Jodi He	Intact	
Sample ID: BH - 1 4' (H50026 BTEX 8021B	2-02) mg/l	6	A	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	1 ST	34			5	48		Qualifie
enzene*	< 0.050	0.050	01/30/2015	ND	1.84	92.0 87.3	2.00	9.13 9.81	
thylbenzene*	< 0.050	0.050	01/30/2015	ND	1.67	83.7	2.00	10.2	
Fotal Xylenes*	<0.150	0.150	01/30/2015	ND	5.00	83.3	6.00	9.92	
Total BTEX	<0.300	0.300	01/30/2015	ND	020000	100347	1710.01	7028-029	
Surrogate: 4-Bromofluorobenzene (PID Chloride, SM4500Cl-B	99.9% mg/l			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	496	16.0	01/29/2015	ND	416	104	400	0.00	
PH 8015M	mg/l	kg	Analyze	d By: MS	20120	1.156947	1.115305	1494.047	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	01/29/2015	ND	202	101	200	1.67	
DRO >C10-C28	<10.0	10.0	01/29/2015	ND	201	100	200	5.99	
Surrogate: 1-Chlorooctane	108 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	129%	52.1-17	ñ						

Celey D. Keene, Lab Director/Quality Manager

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			rtical Resul ety & Environm		s				
			Allen	ichter Solation					
		703	East Clinton						
			bs NM, 88240						
		Fax	To: (575)	) 393-4388					
Received:	01/28/20	15		Sa	mpling Da	ate:	01/27/2	2015	
Reported:	02/03/20	15		Sa	mpling Ty	pe:	Soil		
Project Name:		IOBBS UNIT #29			mpling Co		Cool &		
Project Number:	OXY-15-0			Sa	mple Rece	eived By:	Jodi He	nson	
Project Location:	HOBBS, 1	NM							
Sample ID: BH - 1 6.5' (H5002									
STEX 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	01/30/2015	ND	1.84	92.0	2.00	9.13	
"oluene*	< 0.050	0.050	01/30/2015	ND	1.75	87.3	2.00	9,81	
thylbenzene*	<0.050	0.050	01/30/2015	ND	1.67	83.7	2.00	10.2	
fotal Xylenes*	<0.150	0.150	01/30/2015	ND	5.00	83.3	6.00	9.92	
Total BTEX	<0.300	0.300	01/30/2015	ND					
urrogate; 4-Bromofluorobenzene (PID	99.0	% 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
Thloride	384	16.0	01/29/2015	ND	416	104	400	0.00	
PH 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	01/29/2015	ND	202	101	200	1.67	
DRO >C10-C28	<10.0	10.0	01/29/2015	ND	201	100	200	5.99	
urrogate: 1-Chlorooctane	111 9	6 47.2-15	7						
urrogate: 1-Chlorooctadecane	133 9	6 52.1-17	Ő						
Cardinal Laboratories								*=Accredi	ted Analyte
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Colleg D Kees									

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		Safi Bob	rtical Resul ety & Environm Allen East Clinton		5				
		Hot	obs NM, 88240	) 393-4388					
Received: Reported: Project Name: Project Number: Project Location:	01/28/20 02/03/20 SOUTH F OXY-15-0 HOBBS, 1	115 115 HOBBS UNIT #29 206	M	Sa Sa Sa	mpling Da mpling Ty mpling Co mple Reco	pe: ondition:	01/27/2 Soil Cool & Jodi He	Intact	
Sample ID: BH - 2 2' (H500262 BTEX 8021B	2-04) mg/	'ka	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/30/2015	ND	1.84	92.0	2.00	9.13	quanta
Toluene*	< 0.050	0.050	01/30/2015	ND	1.75	87.3	2.00	9.81	
Ethylbenzene*	<0.050	0.050	01/30/2015	ND	1.67	83.7	2.00	10.2	
Total Xylenes*	<0.150	0.150	01/30/2015	ND	5.00	83.3	6.00	9.92	
Total BTEX	< 0.300	0.300	01/30/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 61-154	1						
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	01/29/2015	ND	416	104	400	0.00	
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	01/29/2015	ND	201	100	200	7.96	
DRO >C10-C28	<10.0	10.0	01/29/2015	ND	213	107	200	10.8	
Surrogate: 1-Chlorooctane	105 9	% 47 <u>.</u> 2-15	7						
Surrogate: 1-Chlorooctadecane	122 9	52.1-17	6						
								29 100001092	
Cardinal Laboratories PLRASE NOTE: Labelity and Demages. Cardina's lease my other cause whistower shall be deemed wated including, without limitation, basiness interruptions, loss i calmin based upon any of the above stated resources or interview.	rifes made in fuse, or loss	writing and mostwed by G of profils incurred by diem	edinai wittiin thirty (30) t, its subsidiaries, affiliale	days after completion is s or successors artsing	of the applicable out of or missi	al to the performance	é shali Cardinal be liable	arms, including the for incidental or	consequental dama
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#### Analytical Results For:

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

Received:	01/28/2015	Sampling Date:	01/27/2015
Reported:	02/03/2015	Sampling Type:	Soil
Project Name:	SOUTH HOBBS UNIT #29	Sampling Condition:	Cool & Intact
Project Number:	OXY-15-006	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

#### Sample ID: BH - 2 4' (H500262-05)

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	01/30/2015	ND	1.84	92.0	2.00	9.13	
Toluene*	<0.050	0.050	01/30/2015	ND	1.75	87.3	2.00	9.81	
Ethylbenzene*	<0.050	0.050	01/30/2015	ND	1.67	83.7	2.00	10.2	
Total Xylenes*	<0.150	0.150	01/30/2015	ND	5.00	83.3	6.00	9.92	
Total BTEX	<0.300	0.300	01/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 99.3 % 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	368	16.0	01/29/2015	ND	416	104	400	0.00	
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	01/29/2015	ND	201	100	200	7.96	
DRO >C10-C28	<10.0	10.0	01/29/2015	ND	213	107	200	10.8	

Surrogate: 1-Chlorooctane 103 % 47.2-157 Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 121 % 52.1-176

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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:	01/28/2015	Sampling Date:	01/27/2015
Reported:	02/03/2015	Sampling Type:	Soil
Project Name:	SOUTH HOBBS UNIT #29	Sampling Condition:	Cool & Intact
Project Number:	OXY-15-006	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

#### Sample ID: BH - 3 2' (H500262-06)

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	02/02/2015	ND	1.84	92.2	2.00	2.11	
Toluene*	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Total BTEX	<0.300	0.300	02/02/2015	ND					

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

102 %

47.2-157

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS	1.00000			CHURTHE	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/29/2015	ND	201	100	200	7.96	
DRO >C10-C28	<10.0	10.0	01/29/2015	ND	213	107	200	10.8	

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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Celeog D. Kune

Celey D. Keene, Lab Director/Quality Manager

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

Received:	01/28/2015	Sampling Date:	01/27/2015
Reported:	02/03/2015	Sampling Type:	Soil
Project Name:	SOUTH HOBBS UNIT #29	Sampling Condition:	Cool & Intact
Project Number:	OXY-15-006	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

## Sample ID: BH - 3 4' (H500262-07)

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	02/02/2015	ND	1.84	92.2	2.00	2.11	
Toluene*	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Total BTEX	<0.300	0.300	02/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 99.2 % 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	272	16.0	01/29/2015	ND	416	104	400	0.00	
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	01/29/2015	ND	201	100	200	7.96	
	<10.0	10.0	01/29/2015	ND	213	107	200	10.8	

 Surrogate: 1-Chlorooctane
 102 %
 47.2-157

 Surrogate: 1-Chlorooctadecane
 118 %
 52.1-176

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Celecy D. 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

Received:	01/28/2015	Sampling Date:	01/27/2015
Reported:	02/03/2015	Sampling Type:	Soil
Project Name:	SOUTH HOBBS UNIT #29	Sampling Condition:	Cool & Intact
Project Number:	OXY-15-006	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

#### Sample ID: BH - 4 2' (H500262-08)

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	02/02/2015	ND	1.84	92.2	2.00	2.11	
Toluene*	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% <u>61-154</u>	r						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS	0.000				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/29/2015	ND	201	100	200	7.96	
DRO >C10-C28	<10.0	10.0	01/29/2015	ND	213	107	200	10.8	

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

47.2-157 52.1-176

104 %

125 %

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Celog D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Chloride         480         16.0         01/29/2015         ND         416         104         400         0.00           TPH 8015M         mg/kg         Analyzed By: MS         MS <td< th=""><th></th><th>Analy</th><th>tical Resul</th><th>ts For:</th><th></th><th></th><th></th><th></th><th></th></td<>		Analy	tical Resul	ts For:					
Production House MM, Beave Ho			Contract of the Contract of the	ental Solutio	ns				
Hobs NM, 8240     Tar to '' (STS) 333-4381       Received:     0/20/2015     Sampling Date:     0/27/2015       Project Name:     SOUTH HOBSS NMT #29.     Sampling Condition:     Cold & Intact       Project Name:     SOUTH HOBSS NMT #29.     Sampling Condition:     Cold & Intact       Project Name:     SOUTH HOBSS NMT #29.     Sampling Condition:     Cold & Intact       Project Name:     SOUTH HOBSS NMT #29.     Sampling Condition:     Cold & Intact       Project Name:     South HOBSS NM     Sampling Condition:     Cold & Intact       Project Name:     Note:     mg/re     Nate     Sampling Condition:     Cold & Intact       Project Name:     Note:     Mg/re     Nate     Sampling Condition:     Cold & Intact       Sampling Condition:     Note:     Note:     Nate     Nate     Nate       Anate     Resorting Lint:     Analyzed Brite     Nate     Nate     Nate     Nate       Sampling Condition:     Cold & O.So     0/20/2015     ND     1.66     82.9     2.00     3.88       Sampling Condition:     Sampling Condition:     Nate     Nate     Nate     Nate     Nate       Sampling Condition:     Cold & O.So     0/20/2015     ND     1.66     82.9     2.00     3.88       Sampl									
Bartor:(572) 939-4388Received:01/29/2015Project Name:02/03/2015Project Name:00/11 HOBBS UNIT #29Sampling Type:Sampling Type:Sampling Condition:SoilAndreNew KReceived By:Sampling Condition:Sampling Condition:SoilSampling Condition: <t< th=""><th></th><th>C</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		C							
Reported:     02/03/2015 SOUTH HOBBS UNIT #29 Project Number:     Sampling Type:     Soil       Project Number:     SOUTH HOBBS NM       sample ID: BH - 4 3' (H500262-09)       Tex Roll     mg/kg       Analyte     Reporting Link       Analyte     Reporting				393-4388					
Project Name:         SOUTH HOBES UNT #29 OXY-15-006         Sampling Condition:         Cool & Intact:           Project Number:         OXY-15-006         Sample Received By:         Jodi Henson           Project Number:         OXY-15-006         Sample Received By:         Jodi Henson           Project Number:         OXY-15-006         Analyzed By: ms         Version           Analyzed By: ms         mg/kg         Analyzed By: ms         Version           Analyzed By: ms         No.005         0.0050         0/20/2/015         ND         1.84         92.2         2.00         2.11           Oduers*          Ox050         0/20/2/015         ND         1.84         92.2         0.00         3.88           Oduers*          Ox050         0/20/2/015         ND         1.66         82.9         2.00         3.88           Odal BTEK          0.150         0/20/2/015         ND         4.93         82.2         6.00         4.21           Norde         Record         Reporting Limit         Analyzed By: MP         ND         4.61         104         400         0.00         105         10/29/2015         ND         213         107         200         1.0.8         10.8	01/28/20	15		S	ampling Da	ite:	01/27/2	2015	
Project Number:       DVY-15-006       Sample Received By:       Jodi Henson         Analyze       MoBBS, NM         Sample D1: BH - 4 3' (H500262-09)       mg/s       Analyzed By: ms         Analyze       Resolt       Reporting Limit       Analyzed By: ms         Intel Status       0.050       0.0202/2015       ND       1.44       92.2       2.00       3.16         Status       0.050       0.050       0.2/02/2015       ND       1.66       82.9       2.00       3.88         Colai TEX       <0.050									
Project Location:       HOBBS, MM         Sample ID: BI - 4.3' (H500262-09) ITEX 80218       mg/kg       Analyzed By: ms         Analyze       Result Reporting Limk Analyzed Method Blank BS % Recovery True Value QC 800 Qualifie oblane**       Q0050 Q2/Q2/2015 ND 1.84 92.2 2.00 3.16 V0050 Q2/Q2/2015 ND 1.75 87.5 2.00 3.16 V0050 Q050 Q2/Q2/2015 ND 4.93 82.2 6.00 4.21         Values       Values <t< th=""><th></th><th></th><th></th><th></th><th>10 10 10 10 10 10 10 10 10 10 10 10 10 1</th><th></th><th></th><th></th><th></th></t<>					10 10 10 10 10 10 10 10 10 10 10 10 10 1				
Name is a second of the				S	ample Rece	eived By:	Jodi He	nson	
NTEX 80218         ng/kg         Analyzed         By: ms           Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD         Qualifie           Inclusion         0.0550         0.0550         0.202/02/2015         ND         1.84         92.2         2.00         2.11           Oblau Press         0.0550         0.0550         0.202/02/2015         ND         1.66         82.9         2.00         3.68           Oblau Nytenes*         <0.050         0.202/02/2015         ND         1.66         82.9         2.00         3.68           Intragate: 4-Bromofluorobenzene (PIII)         102 %         61-154         101         102         61-154           Incluste         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD         Qualifie           SRO C6-10         <10.0         0.0         01/29/2015         ND         213         107         200         7.96           SRO C6-10         <10.0         10.0         01/29/2015         ND         213         107         200         1.0.8           SRO C6-10	HOBBS, N	M							
Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD         Qualifie           Serzene*          0.050         0.050         02/02/2015         ND         1.84         92.2         2.00         2.11           Foluene*          0.050         0.050         02/02/2015         ND         1.75         87.5         2.00         3.16           Ethylbensene*           0.050         0.2002/2015         ND         1.66         82.9         2.00         3.88           Fold STEX           0.300         0.2002/2015         ND         4.93         82.2         6.00         4.21           Fold STEX           0.300         0.2002/2015         ND         1.64         90         0.00           Biarrogate: 4-Bromofilaorobenzene (PID         102 %         61-154         61-154         61-154         61-154         61-154         61-154         61-164         100         0.00         61/29/2015         ND         116         104         400         0.00           END M         mg/kg         Analyzed         Method Blank	101111125			1					
Benzene*         <0.050         0.050         02/02/2015         ND         1.84         92.2         2.00         2.11           Foluene*         <0.050         0.050         02/02/2015         ND         1.75         87.5         2.00         3.16           Sthylbenzene*         <0.050         0.050         02/02/2015         ND         1.66         82.9         2.00         3.88           Fold Kylene*         <0.300         0.300         02/02/2015         ND         4.93         82.2         6.00         4.21           Fold KTEX         <0.300         0.300         02/02/2015         ND         4.93         82.2         6.00         4.21           Fold KTEX         <0.300         0.300         02/02/2015         ND         4.16         104         400         0.00           Immograte: 4-Bromofluenobenzene (PID         102 %         61-134         Analyzed         Method Blank         B5         % Recovery         True Value QC         RPD         Qualifie           END KM         mg/kg         Analyzed         Method Blank         B5         % Recovery         True Value QC         RPD         Qualifie           SRO C6-C10         <10.0         01/29/2015         ND         <	0000	and the second		2010.000	4 nexti	32733	1928 - 2018 - 2014 D	1000	23 1820
Colume*       CO.050       O.050       O.2/02/2015       ND       1.75       87.5       2.00       3.16         Sthybenzere*       CO.050       O.050       O.2/02/2015       ND       1.66       82.9       2.00       3.88         Total Xylenes*       Co.300       O.300       O2/02/2015       ND       4.93       82.2       6.00       4.21         Total BTEX       Co.300       O.300       O2/02/2015       ND       4.93       82.2       6.00       4.21         Total BTEX       Co.300       O.300       O2/02/2015       ND       4.93       82.2       6.00       4.21         Total BTEX       Co.300       O.300       O2/02/2015       ND       4.93       82.2       6.00       4.21         Total BTEX       Co.300       O.300       O2/02/2015       ND       4.16       104       400       0.00         Total BTEX       Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         Chloride C-10        10.0       0.1/29/2015       ND       201       100       200       7.96         DRO >C10-C28        52.1-176 <td></td> <td>832025</td> <td></td> <td></td> <td></td> <td>0.0550</td> <td>2076257</td> <td></td> <td>Qualifier</td>		832025				0.0550	2076257		Qualifier
Ethylbenzene*         <0.050         0.050         0.2/02/2015         ND         1.66         82.9         2.00         3.88           fotal Xylenes*         <0.150	< 0.050	0.050	02/02/2015	ND	1.84	92.2	2.00	2.11	
Total Xylenes*       <0.150	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Total BTEX       <0.300       0.300       02/02/2015       ND         iturrogate: 4-Bromofluorobetteme (PID       102 %       01-154         iturrogate: 4-Bromofluorobetteme (PID       102 %       01-154         Analyte       Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         Chloride       480       16.0       01/29/2015       ND       116       104       400       0.00         PIP B015M       mg/kg       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         SR0 C6-10       <10.0	<0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Charrogate:       4-Bromofluorobenzene (PID       102 %       61-154         Introgate:       4-Bromofluorobenzene (PID       102 %       61-154         Analyte       Result       Reporting Limit       Analyzed       By: AP         Analyte       Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         Chloride       480       16.0       01/29/2015       ND       416       104       400       0.00         FPH 8015M       mg/kg       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         SRO C6-C10       <10.0	<0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Chloride, SM4500CI-B       mg/kg       Analyzed By: AP         Analyze       Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifier         Chloride       480       16.0       01/29/2015       ND       416       104       400       0.00         PH 8015M       mg/kg       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifier         SR0 66-C10       <10.0	<0.300	0.300	02/02/2015	ND					
Analyze       Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         Chloride       480       16.0       01/29/2015       ND       416       104       400       0.00         IPH 8015M       mg/kg       Analyzed By: MS       Manalyzed By: MS       Manalyzed CRPD       Qualifie         Analyte       Result       Reporting Limit       Analyzed By: MS       Difference       RPD       Qualifie         SRO C6-C10       <10.0	102 9	6 61-154	9						
Chloride       480       16.0       01/29/2015       ND       416       104       400       0.00         PH 8015M       mg/kg       Analyzed By: MS       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         SR0 C6-C10       <10.0	mg/	kg	Analyze	d By: AP					
PH 8015M       mg/kg       Analyzed By: MS         Analyte       Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         SRO C6-C10       <10.0	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte       Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         SRO C6-C10       <10.0	480	16.0	01/29/2015	ND	416	104	400	0.00	
SRO C6-C10       <10.0	mg/	kg	Analyze	d By: MS					
NRO >C10-C28     <10.0     10.0     01/29/2015     ND     213     107     200     10.8       hurrogate: I-Chlorooctane     105 %     47.2-157       hurrogate: I-Chlorooctadecane     121 %     52.1-176	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane 105 % 47.2-157 Surrogate: 1-Chlorooctadecane 121 % 52.1-176 Surrogate: 1-Chlorooctadecane 121 % 52.1-176 Surrogate: 1-Chlorooctadecane *=Accredited Analytic Cardinal Laboratories *=Accredited Analytic NSSE NOTE: Leastly and Danages, Cardina's leastly and dents endure membry for any dam analog, whether based in contract or tork, surl le limited to the amount pair by Cherl for analytic from the induced or companyated are subdaming, whothe interport, load of use or tool or points havened by Cardina interport and models in contract or tork, surl le limited to the amount pair by Cherl for analytic from the induced or companyated are subdaming, whother interport, load of use or tool or points the survey of the advone state character or companyated are subdaming, whother interport, load of use stated in the survey of the advone stated character or the advone the performance of the services in the survey of the advone stated interport of Cardinal Laboratore.	<10.0	10.0	01/29/2015	ND	201	100	200	7.96	
Interrogate: 1-Chlorooctadecane 121 % 52.1-176 Second and the seco	<10.0	10.0	01/29/2015	ND	213	107	200	10.8	
*=Accredited Analyti NSSE KOTE: Letting and barrages. Cardina's lability and directs exclusive remody for any dam entring, whether band is contract or toris, shall be limited to the emount paid by direct for analyses. All dams, including those for regulators any other cause whateavers shall be deemed whether analysis and is writting and momental by Cardinal Hash there to completion of the equivable serves. It is eventiable to be done that Cardinal be been to regulators and regulators, whether thereadower and other events. Name of the entries, backballes and an labeled upon early of the above based reserves. If is evented in the entries and is based upon early of the above based reserves. If is evented in the entries approved of Cardinal Laboratories.	105 9	6 47.2-153	,						
RESKE KOTE: Lability and Demayes. Cardism's lability and dierch exclusive remedy for any dawn initiality, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All dams, including these for explores any other cause whatpener shall be deemind waved uses made in writing and moment by Cardinal within faitly (30) days after completion of the applicable service. In no event shall Cardinal be listen to included or consequential and including, writing and moments, business immengators, loss of use of prefix incurrent by client, its substatives, attillates or succession arising out of or estands to the performance of the services feesured by Cardinal, regardless of whether calling is based upon any of the above dated macros or otherwise, including bits the sample identifies above, their not the reproduced except in full with writein approval of Cardinal Laboratories.	121 9	6 52.1-17c	5						
RESKE KOTE: Lability and Demayes. Cardism's lability and dierch exclusive remedy for any dawn initiality, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All dams, including these for explores any other cause whatpener shall be deemind waved uses made in writing and moment by Cardinal within faitly (30) days after completion of the applicable service. In no event shall Cardinal be listen to included or consequential and including, writing and moments, business immengators, loss of use of prefix incurrent by client, its substatives, attillates or succession arising out of or estands to the performance of the services feesured by Cardinal, regardless of whether calling is based upon any of the above dated macros or otherwise, including bits the sample identifies above, their not the reproduced except in full with writein approval of Cardinal Laboratories.									
RESKE KOTE: Laking and Demoyes. Cardwark leaktly and dierts exclusive remety for any dain absing, whether based in contract or tors, shall be limited to the amount paid by client for analysis. All dams, including these for explores any other cause whatever shall be deemined whether used in writing and recorded by Cardwar whether have (30) days after completion of the applicable service. In no event shall Cardward leaker to includents or consequential including, without instances instructories, loss of use, or loss of profile including them for the graduate service arising out of or related to the performance of the services freeworks for each of profile including, without instances or otherwise. Resultances or otherwise, headlanded on one of the service in the service interprote of Cardward Lakonstrates.									
RESKE KOTE: Laking and Demoyes. Cardwark leaktly and dierts exclusive remety for any dain absing, whether based in contract or tors, shall be limited to the amount paid by client for analysis. All dams, including these for explores any other cause whatever shall be deemined whether used in writing and recorded by Cardwar whether have (30) days after completion of the applicable service. In no event shall Cardward leaker to includents or consequential including, without instances instructories, loss of use, or loss of profile including them for the graduate service arising out of or related to the performance of the services freeworks for each of profile including, without instances or otherwise. Resultances or otherwise, headlanded on one of the service in the service interprote of Cardward Lakonstrates.									
NSASE NOTE: Labelity and Damages. Cardwark skolity and darch endance remedy for any dawn ething, whether based in contract or tork, shall be limited to the amount paid by client for analyses. All dams, including these for engineers any other cause whetposes shall be deemed welved unless made in writing and moment by Cardwal within Taitry (20) days after completion of the applicable service. In no event shall Cardwal be lister for including without timbers, business interruptors, loss of use of prefix incurrent by Cardwal les, as loss dates, affiliates or successos areing out of or estands to the performance of the services feesured by Cardwal, negarities of whether dating labelity on other whether and an analysis of prefix incurrent by Cardwal incide reproduced except in full with writen approved Cardwal Laboratories.									
NSKE MOTE: Lability and Damages. Cardina's lability and direts exclusive remedy for any dawn ething, whether based in contract or tork, shall be limited to the amount paid by client for analysiss. All dams, including these for explores any other cause whatpose shall be deemed waked unleas made in writing and moment by Cardinal within Tatify (20) days after completion of the applicable service. In no event shall Cardinal be lister for includes or consequential including, without limitaby, business interruptions, loss of uses of profis incurrent by Cardinal setting that is a substate, affiltables or successors atting out of or estands to the performance of the services feetunder by Cardinal, regardless of whether calm is based upon any of the above shall reasons or otherwise, including either above their notion responded congrin in Market labove shall reason as otherwise. Resultable only to the samples deetified above. This report shall not be reprodued except in Market labove and Labove labove and labove and the services feetunder by Cardinal, regardless of whether calm is based upon any of the above shall reasons or otherwise. Resultable only to the samples deetified above.									
NSKE MOTE: Lability and Damages. Cardina's lability and direts exclusive remedy for any dawn ething, whether based in contract or tork, shall be limited to the amount paid by client for analysiss. All dams, including these for explores any other cause whatpose shall be deemed waked unleas made in writing and moment by Cardinal within Tatify (20) days after completion of the applicable service. In no event shall Cardinal be lister for includes or consequential including, without limitaby, business interruptions, loss of uses of profis incurrent by Cardinal setting that is a substate, affiltables or successors atting out of or estands to the performance of the services feetunder by Cardinal, regardless of whether calm is based upon any of the above shall reasons or otherwise, including either above their notion responded congrin in Market labove shall reason as otherwise. Resultable only to the samples deetified above. This report shall not be reprodued except in Market labove and Labove labove and labove and the services feetunder by Cardinal, regardless of whether calm is based upon any of the above shall reasons or otherwise. Resultable only to the samples deetified above.									
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any other cause whatever shall be deemed where unless made in writing and received by Cardinal while theiry (30) days after completion of the applicable service. In no event shall Cardinal be lable for industrial or consequential daminications, business interruptores, loss of use, or basis or profile accurate by direct, its substants, affinities or iscossions rating out of or example to the performance of the services hereunder by Cardinal, regardless of whether damin is based upon any of the above stated reasons or otherwise. Nexulas refersionly to the services the services the cardinal best only to the services of whether damin is based upon any of the above stated reasons or otherwise. Nexulas refersion of the services the services the services of services are provided and the service of cardinal Labovestated reasons or otherwise.	and cheers a	choice remarks for pre-clas	n address whether from	to material or lost	that he instant in	the amount cash he			
Collegy & Keene	niesa made in v 'use, or kasa o	witting and received by Ca of profils incurred by client,	dinai within thirty (30) Its subsidiaries, affiliate	days after completion s or successors artsin	of the applicable g out of or relate	service. In no even	t shall Cardinal be liable	for incidental or	consequential dama
	Results reade only								
		02/03/20 SOUTH H OXY-15-0 HOBBS, N -09) mg/ Result <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	Safe Bob 703 Hob Fax 01/28/2015 SOUTH HOBBS UNIT #29 OXY-15-006 HOBBS, NM -09) mg/kg Result Reporting Limit <0.050 0.050 <0.050 0.050 <	Safety & Environm Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575)         01/28/2015       02/03/2015         02/03/2015       SOUTH HOBS UNIT #29         SOUTH HOBS UNIT #29         OXY-15-006         HOBBS, NM         -09)         mg/kg       Analyze         Result       Reporting Limit       Analyze         <0.050	Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388           01/28/2015 02/03/2015 SOUTH HOBBS UNIT #29 OXY-15-006 HOBBS, NM         S SOUTH HOBBS UNIT #29 SOUTH HOBBS UNIT #29 OXY-15-006 HOBBS, NM         S SOUTH HOBBS UNIT #29 SOUTH HOBBS UNIT #29 S	safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388 01/28/2015 Sampling Da Sampling Da Sampling Da Sampling Co Sampling Co Sample Reco HOBBS, NM -09) mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank B5 <0.050 0.050 02/02/2015 ND 1.84 <0.050 0.050 02/02/2015 ND 1.84 <0.050 0.050 02/02/2015 ND 1.66 <0.050 0.050 02/02/2015 ND 1.60 Method Blank B5 <0.050 0.050 02/02/2015 ND 201 <0.00 01/29/2015 ND 201 <0.00 01/29/2015 ND 201 <0.00 01/29/2015 ND 213 <0.05 0.050 02/02/2015 ND 213 <0.05	Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-43885         Sampling Date: Sampling Date: Sampling Condition: Sample Received By:         Sourtin HobBS UNIT #29 OXY-15-006 HOBBS, NM         Sampling Condition: Sample Received By:         sourting Limit Analyzed Method Blank BS % Recovery         <0.050	Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388         01/28/2015 02/03/2015 SOUTH HOBBS UNIT #29 OXY-15-006       Sampling Date: 01/27/2 Sampling Type: Soil Sampling Condition: Cool & Sampling Condind Cool & Sampling Condine & Sampling Condi	Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 83240 Fax To: (575) 393-4388       01/27/2015 Sampling Date: 01/27/2015 Sampling Type: Soli Soli Soli Soli Soli Soli Soli Soli

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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

#### Cardinal Laboratories

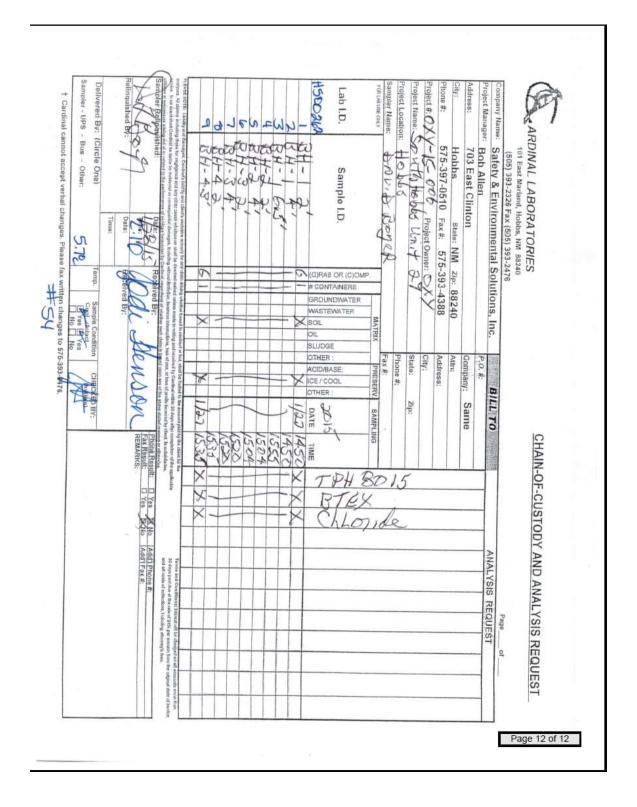
#### \*=Accredited Analyte

R-SGE NOTE: Labelity and Damages. Cardina's labelity and dent's extualing interest for any dam attaing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All dams, including those for mappings and any other cause whetpower shall be deemed winked unless made in writing and momental by Cardinal within 1991 (3) days after completion of the applicable service. In no event shall Cardinal the limite for includent do consequential damages, including, which thereaftons, based in the regions can be applied to the standing standing the above shall measure, and the services hermunder by Cardinal writing and momental damages, claim is based upon any of the above shall measors or otherwise. Results instant of the services hermunder by Cardinal, whether such claim is based upon any of the above shall measors or otherwise. Results instant of the services hermunder by Cardinal, whether such claim is based upon any of the above shall measors or otherwise, Results instant only to be amplies identified above. This report shall not be reproduced eccept in fail with written approval of Cardinal Laboratories.

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager

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February 03, 2015

Bob Allen Safety & Environmental Solutions 703 East Clinton Hobbs, NM 88240

RE: SOUTH HOBBS UNIT #29

Enclosed are the results of analyses for samples received by the laboratory on 01/28/15 16:45.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited entity.

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. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 5



			tical Resul						
		Bob 703	ety & Environn Allen East Clinton bs NM, 88240 To: (575)	) 393-4388	IS				
Received: Reported: Project Name: Project Number: Project Location:	01/28/20 02/03/20 SOUTH H OXY-15-0 HOBBS, I	15 IOBBS UNIT #29 006		Sa	ampling Da ampling Ty ampling Co ample Rece	pe: indition:	01/28/2 Soil Cool & Jodi He	Intact	
Cample ID: AH-1 2' (H500267				1.0					
TEX 8021B	mg/			d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene* Toluene*	<0.050	0.050	02/02/2015	ND	1.84	92.2 87.5	2.00	2.11	
touene*	<0.050 <0.050	0.050	02/02/2015 02/02/2015	ND ND	1.75 1.66	87.5	2.00	3.16 3.88	
Fotal Xylenes*	< 0.150	0.050	02/02/2015	ND	4.93	82.9	6.00	4.21	
Total BTEX	<0.300	0.300	02/02/2015	ND	4.55	02.2	0.00	7,21	
urrogate: 4-Bromofluorobenzene (PID	100 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	Qualifier
hloride	432	16.0	01/29/2015	ND	416	104	400	0.00	
PH 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	01/29/2015	ND	201	100	200	7.96	
DRO >C10-C28	<10.0	10.0	01/29/2015	ND	213	107	200	10.8	
urrogate: 1-Chlorooctane	98.1	% 47.2-157	7						
Surrogate: 1-Chlorooctadecane	118 9	6 52.1-170	ī						
annogane. 1-controlocitatecane	110	5 52.1170							
Cardinal Laboratories								*=Accredit	ted Analyt
Cardinal Laboratories								-Accredit	cou Analyte

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



## Analytical Results For:

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

Received:	01/28/2015	Sampling Date:	01/28/2015
Reported:	02/03/2015	Sampling Type:	Soil
Project Name:	SOUTH HOBBS UNIT #29	Sampling Condition:	Cool & Intact
Project Number:	OXY-15-006	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

# Sample ID: AH-1 3'6" (H500267-02)

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	02/02/2015	ND	1.84	92.2	2.00	2.11	
Toluene*	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Total Xylenes*	< 0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Total BTEX	<0.300	0.300	02/02/2015	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	Qualifie
Chloride	464	16.0	01/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg	kg	Analyze	d By: MS	0.000	Construction of the Constr	1.000		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	01/29/2015	ND	201	100	200	7.96	
DRO >C10-C28	<10.0	10.0	01/29/2015	ND	213	107	200	10.8	

47.2-157

Surrogate: 1-Chlorooctane 102 %

Surrogate: 1-Chlorooctadecane 117 % 52.1-176

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## \*=Accredited Analyte

NAME MOTE: Lability and Damages. Cardinal's lability and directs enclusive remedy for any dam ansing, whether based in contract or tort, shall be limited to the amount paid by direct for analyses. All dams, including those for negligence and any other case whetpower table to downed whether directs make in white gas do included and the completion of the applicable service. In no event shall be denote the labole for included or consequential damages, including, which limitary, burness interpretions, and use, or loss of profits harmed by dama the support to accelerate, while any of the above static damages in termination and all to be applicables and an or user of the samples identified above. The most shall not emptionable except in 14 with writem approval of Cardinal Laboratories.

Colory D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



## 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

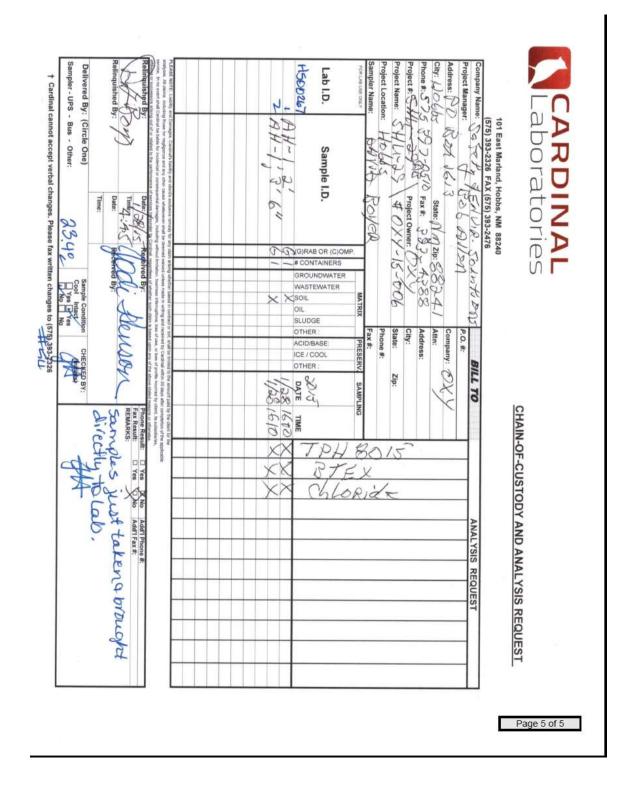
## \*=Accredited Analyte

RESER NOTE: Liability and Damages. Candrafis lability and dents exclusive remote for any dama resize, whether based is contract or tort, allel be limited to the amount paid by olient for analyses. All dams, including these for implications and any other cases whethere relate the damand whether damands and the methy and manages by Candral whether table (30) days after completion of the applicable service. In no event shall Candral the limite for industrial or consequential damapes, including, wholes iteratively because a value of use of use of loss of profits included by client, is absidiates, affiliates or successors arising out of or related to the performance of the services internuotier by Candral, magnetises of whether such dama based upon any of the above table-means or otherwise. Including the services internuotier by Candral, magnetises of whether such dama based upon any of the above table-means or otherwise. Including the services internuotier by Candral, magnetises of whether such dama based upon any of the above table-means or otherwise. Including the services internuotier by Candral, magnetises of services in the vertices of the services or the service.

Celeog D. treene

Celey D. Keene, Lab Director/Quality Manager

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February 05, 2015

Bob Allen Safety & Environmental Solutions 703 East Clinton Hobbs, NM 88240

RE: SOUTH HOBBS UNIT #29

Enclosed are the results of analyses for samples received by the laboratory on 01/29/15 14:15.

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 <a href="https://www.tcea.texas.gov/field/ga/lab">www.tcea.texas.gov/field/ga/lab</a> accredited entificate 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 <a href="https://www.tcea.texas.gov/field/ga/lab">www.tcea.texas.gov/field/ga/lab</a> accredited entificate number T104704398-13-5.

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. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 11



				PHO	NE (575) 3	93-2326 ° 101	E. MARLAND ° HO	BBS, NM 882	240
		Analy	tical Resul	ts For:					
		Bob 703	Állen East Clinton bs NM, 88240	nental Solution: ) 393-4388	5				
		FdA	10. (373)	393-4300					
Received: Reported: Project Name: Project Number: Project Location:	01/29/20 02/05/20 SOUTH H OXY-15-0 HOBBS, 1	115 IOBBS UNIT #29 006		Sa Sa	mpling Da mpling Ty mpling Co mple Rece	pe: ndition:	01/28/2 Soil Cool & Jodi He	Intact	
Sample ID: BH-5 2' (H500275-	01)								
3TEX 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	02/02/2015	ND	1.84	92.2	2.00	2.11	
Foluene*	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
thylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Fotal Xylenes*	<0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 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
Thloride	3160	16.0	02/02/2015	ND	432	108	400	3.77	
PH 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	01/30/2015	ND	201	100	200	7.96	
DRO >C10-C28	<10.0	10.0	01/30/2015	ND	213	107	200	10.8	
urrogate: 1-Chlorooctane	100 %	% 47.2-157							
Surrogate: 1-Chlorooctadecane	119 %	6 52.1-176							
								*=Accredit	tod Analyt

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Benzene*       <0.050       0.050       02/02/2015       ND       1.84       92.2       2.00       2.11         Foluene*       <0.050       0.050       02/02/2015       ND       1.75       87.5       2.00       3.16         Ethylbenzene*       <0.050       0.050       02/02/2015       ND       1.66       82.9       2.00       3.88         Fotal Xylenes*       <0.150       0.150       02/02/2015       ND       4.93       82.2       6.00       4.21         Fotal BTEX       <0.300       0.300       02/02/2015       ND       4.93       82.2       6.00       4.21         Surrogate: 4-Bromofluorobenzene (PID       101 %       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134       01-134 <td< th=""><th></th><th></th><th></th><th></th><th>PHOT</th><th>VE (575) 3</th><th>93-2326 ° 101</th><th>E. MARLAND * HU</th><th>385, NM 882</th><th>240</th></td<>					PHOT	VE (575) 3	93-2326 ° 101	E. MARLAND * HU	385, NM 882	240
Shifty & Environmental Solutions bob Alling D3 East Clinton Mobiles NM, 882400 Exerce : 02/05/2015     Sampling Date: 01/28/2015 Sampling Date: 01/28/2015 Sampling Date: 02/05/2015 Sampling Conditions: Coold Allinat Project Number: 02/05/2015 Mobiles NM       Project Number: 02/05/2015 Mobiles NM     Sampling Conditions: Coold Allinat Sample Received By: 03/14       Sample De 10: 15 - 5 - 5 - 36 (1500025-02) Mobiles NM     Sample Received By: 03/12       Sample Received By: 03/12     Mobile Bink       Mayre Result Coadion: HOBS NM     Sample Received By: 03/12       Sample De 10: 16 - 5 - 5 - 36 (1500025-02) Mobiles NM     Sample Received By: 04/14       Sample Received By: 04/14     Sample Received By: 04/14       Sample De 10: 16 - 5 - 5 - 36 (1500025-02) Mobiles NM     Sample Received By: 04/14       Sample Received By: 04/14     Sample Received By: 04/14       Sample Cold Clob Clob Clob Clob Clob Clob Clob Clob			Analy	tical Resul	lts For:					
D3E Back Cliniton         Mache Margan         Project Name:       Q0/05/2015         Sample Received By:       Jold Henson         Project Name:       Q0/05/2015         Project Name:       Q0/05/2015         Market Result       Resolved By:       Jold Henson         Project Name:       Q0/05/2015       ND       1.84       9.2.2       2.00       2.11         Analyte       Result       Resolved By:       Jold Henson       2.11       2.00       3.61         Analyte       Result       Resolved By:       Jold Henson       3.62       A.00       3.62         Analyte       Result       Resolved By:       Jold Henson       3.62       A.00       3.62         Analyte       Resolved By:       A.01/26       Method Black BS       S. Recovery Twe Vale QC       RPD       Qualifie         Norde       Result       Resolved By:       A.01/26       No       Jold Jold Jold Jold Jold Jold Jold Jold										
Hobs My, Bödd Reported :       01/29/2015 02/05/2015       Sampling Date:       01/28/2015 Sampling Type:       Sampling Type:       Samplin										
Backivs:     01/29/2015       Received:     02/09/2015       Project Name:     02/09/2015       Project Name:     02/09/2015       Sampling Date:     00/2014       Project Name:     02/09/2015       Sampling Condition:     00/2014       Sampling Condition:     00/2014    <										
Received:       01/29/2015       Sampling Date:       01/28/2015         Project Name:       SOUTH HOBES UNIT #29       Sampling Condition:       Soil         Project Location:       HOBES, NM         ample D: EH-5 3.5-3.6" (H500275-02)         EX 5001       ng/k       Analyzed By:       Joil Henson         analyze       ng/k       Nalyzed By:       Joil Henson         enzeme*       <0.050										
Reported:         20/20/2015         Sampling Type:         Soil           Project Name:         SOUTH HOBBS UNIT #29         Sampling Condition:         Cod & Intact.           Project Location:         HOBBS, M         Sampling Condition:         Cod & Intact.           andpression:         HOBBS, M         Sampling Condition:         Cod & Intact.           andpression:         HOBBS, M         Analyzed By: ms         Marked By:         Joint Hubbs           analyze         Result         Reporting Limit         Analyzed By: ms         Marked By:         Joint Hubbs           analyze *         40.650         0.050         0.202/2015         ND         1.75         8.75         2.00         3.16           advine *          0.050         0.202/2015         ND         1.66         82.9         2.00         3.88           advine *          0.050         0.202/2015         ND         4.93         82.2         6.00         4.21           advine *         mg/kg         Analyzed By: AP         Marked Bink         B5         % Recovery         Tue Vuke QC         RPO         Qualifie           Moride         1660         16.0         0.202/2015         ND         202         1.00         1.00 </td <td></td> <td></td> <td>Fax</td> <td>10: (5/5)</td> <td>) 393-4388</td> <td></td> <td></td> <td></td> <td></td> <td></td>			Fax	10: (5/5)	) 393-4388					
Reported:         02/05/2015         Sampling Type:         Soil           Project Name:         SOUTH HOBBS UNIT #29         Sampling Condition:         Cod & Intact:           Project Location:         HOBBS, M         Sampling Condition:         Cod & Intact:           ample D: BH-5 3.5-3.6' (H500275-02)         Sampling Condition:         Cod & Intact:         Joid Henson           ample D: BH-5 3.5-3.6' (H500275-02)         Mayzed By: ns          Analyzed By: ns            erazene*         40.050         0.050         0.2/02/2015         ND         1.75         87.5         2.00         3.16           olivene*          0.050         0.2/02/2015         ND         1.66         82.9         2.00         3.88           olivene*          0.050         0.2/02/2015         ND         1.66         82.9         2.00         3.88           otal BTEX          0.150         0.2/02/2015         ND         4.93         82.2         6.00         4.21           otal BTEX          0.16         82.9         0.02         3.77         PM           Moride         1660         16.0         0.2/02/2015         ND         202         1.08         3.77	Received:	01/29/20	15		Sar	nplina Da	ite:	01/28/2	2015	
Project Name:         SOUTH HOBES UNIT #29 OXY-15-006         Sampling Condition:         Cold & Intact Sample Received By:         Joid Henson           Project Number:         OXY-15-006         Sample Received By:         Joid Henson         Joid Henson           Analyzed By:         mg/kg         Analyzed By: ms         Sample Received By:         Joid Henson           Test B0218         mg/kg         Analyzed By: ms         Sample Received By:         Joid Henson           Analyse         Record Condition:         100 Sign Oxford Oxford Sign Oxfo										
Project Location:         HOBBS, MM           ample 1D: BH-5 3.5-3.8' (H500275-02)           TEX 80218         mg/lg         Analyzed By: ms <ul> <li>Analyzed By: ms</li> <li>Analyzed By: MS</li></ul>	Project Name:							Cool &	Intact	
Amalyan         makyan         makyan         Manayan	Project Number:	OXY-15-0	006		Sar	nple Rec	eived By:	Jodi He	nson	
TEX 80218         mg/kg         Analyzed By: ms           Analyze         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD         Qualifie           Induene**         <0.0550	Project Location:	HOBBS, I	NM							
TEX 80218         mg/m         Analyzed By: ms           Analyze         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD         Qualifie           encorers*         <0.0550	ample ID: BH-5_3.5-3.8' (H50	0275-02	)							
enzerse*       60.050       62/02/2015       ND       1.84       92.2       2.00       2.11         oblene*        60.050       0.202/2015       ND       1.75       87.5       2.00       3.16         thylbenzene*        60.050       0.202/2015       ND       1.66       82.9       2.00       3.88         total Kylene*         61.150       0.150       0.202/2015       ND       4.93       82.2       6.00       4.21         urrogate:       4.87000fb       mg/kg       Analyzed By: AP       Method Blank       B5       % Recovery       True Value QC       RPD       Qualifie         Noride       1660       16.0       02/02/2015       ND       432       108       400       3.77         PH 8013M       mg/kg       Analyzed By: MS       Method Blank       B5       % Recovery       True Value QC       RPD       Qualifie         RO C6C-C10        10.0       01/30/2015       ND       215       107       200       1.08         RO C6C-C10        10.0       01/30/2015       ND       215       107       200       1.08         RO C6C-C10        10.0			-	Analyze	ed By: ms					
colument	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
thylpenzene*       <0.050	enzene*	<0.050	0.050	02/02/2015	ND	1.84	92.2	2.00	2.11	
Odd Xylenes*         0.150         0.150         0.2/02/2015         ND         4.33         82.2         6.00         4.21           idal BTEX         <0.300	oluene*	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Total BTEX         < 0.300         0.300         02/02/2015         ND           iturregate:         4-Bromgfluorobenzene (PID         101 %         61-154           iturregate:         4-Bromgfluorobenzene (PID         101 %         61-154           Analyze         Result         Reporting Limit         Analyzed By: AP           Chloride         1660         16.0         02/02/2015         ND         432         108         400         3.77           PH 8015M         mg/kg         Analyzed By: MS           02/02/2015         ND         207         104         200         1.08           GRO CG-C10         <10.0	thylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Cardinal Laboratories       Market       Hardet       Hardet       Hardet       Hardet       Hardet       Hardet       Hardet       Market       Result       Reporting Limit       Analyzed By: AP         Analyze       Result       Reporting Limit       Analyzed By: AP       Method Blank       B5       % Recovery       True Value QC       RPD       Qualifie         Chloride       1660       16.0       02/02/2015       ND       432       108       400       3.77         PH 8015M       mg/kg       Analyzed       Method Blank       B5       % Recovery       True Value QC       RPD       Qualifie         SR0 C6-C10       <10.0	otal Xylenes*	<0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Analyte     ng/kg     Analyzed     By Start       Analyte     Result     Reporting Limit     Analyzed     Method Blank     BS     % Recovery     True Value QC     RPD     Qualifie       Chloride     1660     16.0     02/02/2015     ND     432     108     400     3.77       PH 8015M     mg/kg     Analyzed     Method Blank     BS     % Recovery     True Value QC     RPD     Qualifie       SR0 C6-C10     <10.0	otal BTEX	<0.300	0.300	02/02/2015	ND					
Analyte       Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         Ihloride       1660       16.0       02/02/2015       ND       432       108       400       3.77         PH 8015M       mg/kg       Analyzed By: MS       Manalyzed By: MS       Analyzed CRPD       Qualifie         RO C6-C10       <10.0	urrogate: 4-Bromofluorobenzene (PID	101 9	61-154							
Chloride       1660       16.0       02/02/2015       ND       432       108       400       3.77         PH 8015M       mg/kg       Analyzed By: MS       Method Blank       B5       % Recovery       True Value QC       RPD       Qualifie         SR0 6 <c10< td="">       &lt;10.0</c10<>	hloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
PH 8015M     mg/kg     Analyzed By: MS       Analyte     Result     Reporting Limit     Analyzed     Method Blank     BS     % Recovery     True Value QC     RPD     Qualifie       RO 6 <c10< td="">     &lt;10.0</c10<>	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte       Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD       Qualifie         SRD C6-C10       <10.0	hloride	1660	16.0	02/02/2015	ND	432	108	400	3.77	
RO C6-C10       <10.0	PH 8015M	mg/	kg	Analyze	ed By: MS					
RO >C10-C28       <10.0       10.0       01/30/2015       ND       215       107       200       2.00         urrogate: 1-Chlorooctane       98.9 %       47.2-157         urrogate: 1-Chlorooctadecane       117 %       52.1-176    Cardinal Laboratories *=Accredited Analyte Note that is average whenever that is average, average that is average whenever that is average, average to the servace is average of the servace is average to the servace is average of the servace is average o	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
urrogate: 1-Chlorooctane 98.9 % 47.2-157 urrogate: 1-Chlorooctadecane 117 % 52.1-176 Cardinal Laboratories *=Accredited Analyte RSRE NOT: Labiny and Danges. Cardinal habity and derth exclusive remety for any dam entry, whether based in context or bot, will be instead to be performance of the sonce heavier by Cardina, index interface acredited on this report and not be expressed acredited in based upon any of the above stated measors or otherwise. Header is based and by Cardinal and the import and not be expressed exclusion in the advance of the sonce heavier by Cardina, index in the advance and any of the above stated measors or otherwise. Insults relate only is the samples identified above. The report and not be reproduced ecopt in fall with writen approval of Cardinal Laboratories.	RO C6-C10	<10.0	10.0	01/30/2015	ND	207	104	200	1.08	
urrogate: 1-Chlorooctadecane     117 % 52.1-176         Cardinal Laboratories     *=Accredited Analyte         Reset NOT:     Lidditis and denth inditis and denth exclude remety for any dam index, whether based is context. or lost, and be instead of its monot, and be indext in the exclusion indext in the scalarity or company dam indext, whether based is context. or lost, and be instead of the service indext in the lost is contained and the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the scalarity in the scalarity is the scalarity in the	RO >C10-C28	<10.0	10.0	01/30/2015	ND	215	107	200	2.00	
*=Accredited Analyt RASE NOT: Uablin and Damages. Cardina's bablin and decise extransify for any dam anting, whether based in context or tot, shall be limited to the amount pail by clarst for analyses. All dams, including those for negleproce any dire care whethere while the deemed where made in writing and mathed by Cardinal whither table (0) days dire down and tables, whether based in context or tot, shall be limited to the amount pail by clarst for analyses. All dams, including those for negleproce and in the shallow, nature, thereadow is a factor of pail to be been device in the shallow mathem or accessors when you of or mathed to the performance of the services hereadow by Cardina', imgendess of whether dam is based upon any of the above shallow mathematic only is the samples identified above. This report shall not be reproduced ecopt in full with written reprodued Laboretomics. Cardinal Laboretomics.	urrogate: 1-Chlorooctane	98.9	% 47.2-15	7						
R56E HOTE: Lability and Damages. Cardwith lability and denth exclusive remedy for any dam relating, whether based in contract or bot, shall be limited to the amount paid by client for analyses. All dams, including these for registroar any other case whenever shall be demend whenever unliss make in writing and rectined by Cardwid within hitty (20) days after completion of the applicable services. In one event shall Cardwid is like for including these for registroards including, whose hitten that have a strain or profits haven by during the limited by Cardwid within the profit of the analysis of or method to be performance of the services hereunder by Cardwid, regardless of whether dams based upon any of the above Stated measors or otherwise. Results relate only to the services. This report shall not be reproduced eccept in fall with written approval of Cardwid Labovebries.	urrogate: 1-Chlorooctadecane	117 9	52.1-170	5						
R56E HOTE: Lability and Damages. Cardwith lability and denth exclusive remedy for any dam relating, whether based in contract or bot, shall be limited to the amount paid by client for analyses. All dams, including these for registroar any other case whenever shall be demend whenever unliss make in writing and rectined by Cardwid within hitty (20) days after completion of the applicable services. In one event shall Cardwid is like for including these for registroards including, whose hitten that have a strain or profits haven by during the limited by Cardwid within the profit of the analysis of or method to be performance of the services hereunder by Cardwid, regardless of whether dams based upon any of the above Stated measors or otherwise. Results relate only to the services. This report shall not be reproduced eccept in fall with written approval of Cardwid Labovebries.	-									
RSSE KOTE: Lability and Damages. Carchells liability and decids exclusive remedy for any dam relating, whether based in contract or bot, shall be limited to the amount paid by client for analyses. All dams, including these for neglences any differ cause whethere whethere shall be demend whether vision and in writing and monoted by Cardinal within this (30) daes after completion of the applicable services. In one west shall Cardinal less insist in writing and monoted by Cardinal within this (30) daes after completion of the applicable services. In one west shall Cardinal less lister for including these for neglences and the instances of the services here under by Cardinal, which will be addressed within a service and analysis of whether cardinal upon any of the above shall relation of other shalls related on any of the above shall relation and by the samples identified above. The reproduced ecorgt in fall with writisn approval of Cardinal Labovatories.										
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NSEE KOTE: Lability and Damages. Carches's lability and decist exclusive remedy for any dam energy, whether based in contract or tort, shall be limited to the amount paid by clerk for analyses. All dams, including these for neglecome any other cause whethere shall be deened whether dises make in writing and momentar by Cardinal with their they (30) days after completion of the applicable service. In no event shall Cardinal less lists for including these for neglecome clarks whethere whethere whethere shall related as a shall be included with the service shall be advected by Cardinal and the services and and clarks whethere all the down shall related as on the service shall be labeled by Cardinal and the services the services here under by Cardinal, ingerdees of whether claim is based upon any of the above shall reasons or otherwise. He advect all ones the services here under by Cardinal, ingerdees of whether claim is based upon any of the above shall reasons or otherwise. He advect all ones the services here under by Cardinal, ingerdees of whether claim is based upon any of the above shall reasons or otherwise. He advect all ones the services here under by Cardinal, ingerdees of whether claim is based upon any of the above shall reasons or otherwise. He advect all ones the services here under by Cardinal, ingerdees of whether claim is based upon any of the above shall reasons or otherwise. He advect all ones the services here under there the services here under there th										
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ary dee case whoover that be deend where unless made in writing and monted by Cardini within thity (20) days the completion of the applicable service. In no event shall Cardini is taken to indexed by Cardini, regardless of writient or consequential dam includes, which initiation, but its interpretation, but its interpretation of the applicable service. In the services hereworder by Cardini, regardless of written date is been deep and of an interpretation of an interpretation of a services in the services hereworder by Cardini, regardless of written date is been deep and of an interpretation of a services in the services in the services hereworder by Cardini, regardless of written date is been deep and of an interpretation of a cardini Laboratories.		ity and clearly -	xclusive remedy for any chai	n arising, whether have	d in contract or tost sta	i be jimber *	o the amount raid he	client for analysis. All ris		
	any other cause whatsoever shall be deemed walved including, without limitation, business interruptions, loss	unless made in of use, or loss	writing and received by Ca of profits incurred by client,	dinal within thirty (30) Its subsidiaries, affiliate	days after completion of as or successors arising of	f the applicable sut of or relat	ad to the performance	t shall Cardinal be liable	for incidental or o	consequential damag
Color D. Koono, Lab Director/Ouslity Manager	Colog D. Kee	N. 0 -								
	Coley D. Keene Lab Diroctor/O	ality Man:	anar							

Page 3 of 11



#### Analytical Results For:

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

Received:	01/29/2015	Sampling Date:	01/28/2015
Reported:	02/05/2015	Sampling Type:	Soil
Project Name:	SOUTH HOBBS UNIT #29	Sampling Condition:	Cool & Intact
Project Number:	OXY-15-006	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

## Sample ID: BH-6 2' (H500275-03)

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	02/02/2015	ND	1.84	92.2	2.00	2.11	
Toluene*	< 0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2,00	3.88	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 61-154	r.						
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	02/02/2015	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	01/30/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	01/30/2015	ND	215	107	200	2.00	

 103 70
 47.2-137

 Surrogate: 1-Chlorooctadecane
 118 %
 52.1-176

#### Cardinal Laboratories

\*=Accredited Analyte

R36E MOTE: Lability and Damayas. Cardina's lability and clerits exclusive remedy for any date ensing, whether based in context or tost, and be limited to the amount paid by clerit for analyses. All dates, including those for negligaron and any other cases whatbomer shall be deteried were used and a state of the structure of the structure shall be deteried were used and any other structure of the structure shall be deteried were used and any other structure of the structure shall be deteried were used and any other structure of the structure shall be deteried were used and any other structure shall be deteried were used and any other structure of the structure shall be deteried were used and any other structure of the structure shall be deteried were used and any other structure of the structure shall be deteried were used and any other structure of clerifies of structure shall be deteried were used and any other structure shall be deteried were used and any other structure shall be deteried were used and any of the structure shall be deteried were used and in the structure shall be deteried and the structure shall be deteried and the structure shall be deteried and any of the structure shall be deteried and and any of the structure shall be deteried and structure shall be deteried and any of the structure shall be deteried and any of th

Celeog D. Keine

Celey D. Keene, Lab Director/Quality Manager

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	Laboratories	

and the second second second second second second				PI	HONE (575) 3	93-2326 ° 101	E. MARLAND ° HO	BBS, NM 88	240
		Analy	tical Resul	ts For:					
		Bob 703	ty & Environn Allen East Clinton bs NM, 88240 To: (575)	nental Solutio ) 393-4388	ons				
Received: Reported: Project Name: Project Number: Project Location:	01/29/201 02/05/201 SOUTH HO OXY-15-00 HOBBS, N	15 OBBS UNIT #29 06		1	Sampling Da Sampling Ty Sampling Co Sample Reco	pe: indition:	01/28/ Soil Cool & Jodi He	Intact	
Sample ID: BH-6 3-3.4' (H500									
BTEX 8021B	mg/k			d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blar		% Recovery	True Value QC	RPD	Qualifier
lenzene*	< 0.050	0.050	02/02/2015	ND	1.84	92.2	2.00	2,11	
oluene*	< 0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
thylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
otal BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	61-154							
Chloride, SM4500Cl-B	mg/k	g	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blar	nk BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/02/2015	ND	432	108	400	3.77	
PH 8015M	mg/k	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blar	nk BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/30/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	01/30/2015	ND	215	107	200	2.00	
Surrogate: 1-Chlorooctane	95.7 %	47.2-157	0						
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	95.7 % 111 %								
Cardinal Laboratories								*=Accredit	
FLERE NOTE: Likelity and Danayas. Cardina's load any dee cases whethere this to denna where i hadding, whoch limitatory barness interruptions, iou o dam is based upon any of the above balad reasons or otherwise.	uniess made in w of use, or loss of . Results relate only to	nting and received by Can profils incurred by client,	dnai wittin thity (30) Its subsidiaries, affiliate	days after completing is or successors arts	on of the applicable ing out of or relat	a service. In no ever at to the performance	nt shali Cardinal be ilabia	for incidental or	consequential dar

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:	01/29/2015	Sampling Date:	01/28/2015
Reported:	02/05/2015	Sampling Type:	Soil
Project Name:	SOUTH HOBBS UNIT #29	Sampling Condition:	Cool & Intact
Project Number:	OXY-15-006	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

## Sample ID: BH-7 2' (H500275-05)

BTEX 8021B	mg/	lkg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/02/2015	ND	1.84	92.2	2.00	2.11	
Toluene*	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Total Xylenes*	< 0.150	0,150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 61-154	r -						
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	02/02/2015	ND	416	104	400	7.41	
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	01/30/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	01/30/2015	ND	215	107	200	2.00	

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane 118 %

102 %

47.2-157

52.1-176

#### Cardinal Laboratories

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REASE NOTE: Liability and Damages. Candwals liability and dents exclusive remedy for any date mining, whether based is contact or lost, shall be limited to the amount paid by dent for analyses. All dams, including those for mappings and any other cases whateveer table beament weeked unless make in writing and missioned by Cardinal white this traty (30) daes if the constant of the applicable service. In no event table Cardinal be limited to the services because the cardinal be limited to the services becaused and and tables or some purchase and the cardinal because and and the cardinal base of the original cardinal base of the services because the service be performance of the services behavior by Cardinal, which will be services behavior by Cardinal, which will be approximated or consequent table with the service be performance of the services behavior by Cardinal, which will be been approximated or consequent table with the service be performance of the services behavior by Cardinal, which will be approximated or consequent table with the service behavior to any of the above table cardinal based on the performance of Cardinal Laboratories.

Colory D. Keine

Celey D. Keene, Lab Director/Quality Manager

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		Analy	tical Resul	ts For:					
		Bob 703	Allen East Clinton bs NM, 88240	nental Solutions ) 393-4388					
Received: Reported: Project Name: Project Number: Project Location:	01/29/20 02/05/20 SOUTH F OXY-15-0 HOBBS, 1	15 IOBBS UNIT #29 006		Sar Sar	npling Da npling Ty npling Co nple Reco	pe: ndition:	01/28/2 Soil Cool & I Jodi Her	Intact	
Gample ID: BH-7 3 - 3.8' (H500 BTEX 8021B	)275-06) mg/		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/02/2015	ND	1.84	92.2	2.00	2.11	
foluene*	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
thylbenzene*	< 0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
otal Xylenes*	< 0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
otal BTEX	<0.300	0.300	02/02/2015	ND					
urrogate: 4-Bromofluorobenzene (PID	98.9	% 61-154							
hloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
hloride	16.0	16.0	02/02/2015	ND	416	104	400	7.41	
PH 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	01/30/2015	ND	207	104	200	1,08	
DRO >C10-C28	<10.0	10.0	01/30/2015	ND	215	107	200	2.00	
urrogate: 1-Chlorooctane	108 9	6 47.2-157							
urrogate: 1-Chlorooctadecane	119 %	52.1-170	Ĩ						
Cardinal Laboratories								*=Accredit	ted Analyte
PLEASE NOTE: Liability and Damages. Cardinal's least any other cause whetherwar shall be deemed waived u including, without limitation, business interruptions, loss of datin is based upon any of the above stated reasons or otherwise.	niess made in fuse, or loss	writing and received by Car of profits incurred by client,	dinal within thirty (30) Its subsidiaries, affiliate	days after completion of a or successors artising of	the applicable out of or relati	at to the performance	t shall Cardinal be liable i	tor incidental or	consequential clama
Colory D. Keer									
Celey D. Keene, Lab Director/Qu	ality Mana	der							



		Analy	tical Resul	ts For:					
			ety & Environm	ne <mark>ntal Solu</mark> tio	ns				
			Allen						
			East Clinton						
		Fax	bs NM, 88240	393-4388					
		FdA	10. (375)	393-4300					
Received:	01/29/20	15		S	Sampling Da	ite:	01/28/2	2015	
Reported:	02/05/20				ampling Ty		Soil		
Project Name:	SOUTH H	IOBBS UNIT #29	E.	S	Sampling Co	ndition:	Cool & I	Intact	
Project Number:	OXY-15-0	006		S	Sample Rece	eived By:	Jodi He	nson	
Project Location:	HOBBS, 1	MM							
Sample ID: BH-8 2' (H500275-	1000000 - 1000000								
TEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	k BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2015	ND	1.84	92.2	2.00	2.11	
oluene*	<0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Ethylbenzene*	< 0.050	0.050	02/02/2015	ND	1.66	82.9	2.00	3.88	
Fotal Xylenes*	< 0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Total BTEX	< 0.300	0.300	02/02/2015	ND	100	OLL.	0.00		
IOUGI DI EX	×0.300	0.500	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	6 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blan	k BS	% Recovery	True Value QC	RPD	Qualifier
Thloride	544	16.0	02/02/2015	ND	416	104	400	7.41	67
TPH 8015M	mq/		30 (G. 198	d By: MS	110	101			
20	10		25 115	30 A33N 3	8				
Analyte	Result	Reporting Limit	Analyzed	Method Blank		% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/30/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	01/30/2015	ND	215	107	200	2.00	
urrogate: 1-Chlorooctane	101 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	120 9	52.1-17	5						
arrogate. 1-Chilorooctaalocano	1200								
Cardinal Laboratories								*=Accredi	ted Analyte
REASE NOTE: Lability and Damages. Cardinal's lability									tor negligence
any other cause whatsoever shall be deemed waived us including, without limitation, business interruptions, loss of datin is based upon any of the above stated masons or otherwise.	use or loss	of profits incurred by client	its subsidiaries, affiliate	s or successors artsin	to out of or relati	at to the performance	it shall Cardinal be liable t of the services hereunder t	for incidental or by Cardinal, regar	consequential dama dess of whether :
College Keer									
Colou D. Koone Let Direct. 10	lib a ben								
Celey D. Keene, Lab Director/Qua	ality Mana	iger							

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#### Analytical Results For:

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

Received:	01/29/2015	Sampling Date:	01/28/2015
Reported:	02/05/2015	Sampling Type:	Soil
Project Name:	SOUTH HOBBS UNIT #29	Sampling Condition:	Cool & Intact
Project Number:	OXY-15-006	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM		

## Sample ID: BH-8 3.5 - 4' (H500275-08)

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	02/02/2015	ND	1.84	92.2	2.00	2.11	
Toluene*	< 0.050	0.050	02/02/2015	ND	1.75	87.5	2.00	3.16	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.66	82.9	2,00	3.88	
Total Xylenes*	< 0.150	0.150	02/02/2015	ND	4.93	82.2	6.00	4.21	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154	ı						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	272	16.0	02/02/2015	ND	416	104	400	7.41	
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	01/30/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	01/30/2015	ND	215	107	200	2.00	

47.2-157

52.1-176

Surrogate: 1-Chlorooctane 103 % Surrogate: 1-Chlorooctadecane

117 %

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\*=Accredited Analyte

REACE NOTE: Lability and Damages. Candina's lability and dents exclusive remedy for any dama straining, whether based in contact or tost, allel be limited to the amount goed by client for analysiss. All dams, including those for mappingene and any other cause whethere shall be deemed whether lability and dents exclusive strain straining. Whether based in contact or tost, allel be limited to the amount goed by client for analysis. All dams, including those for mappingene and any other cause whethere shall be deemed whether lability and dents exclusive straining whether tables of the special straining whether tables of tables of

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Celey 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 SM4500CI-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

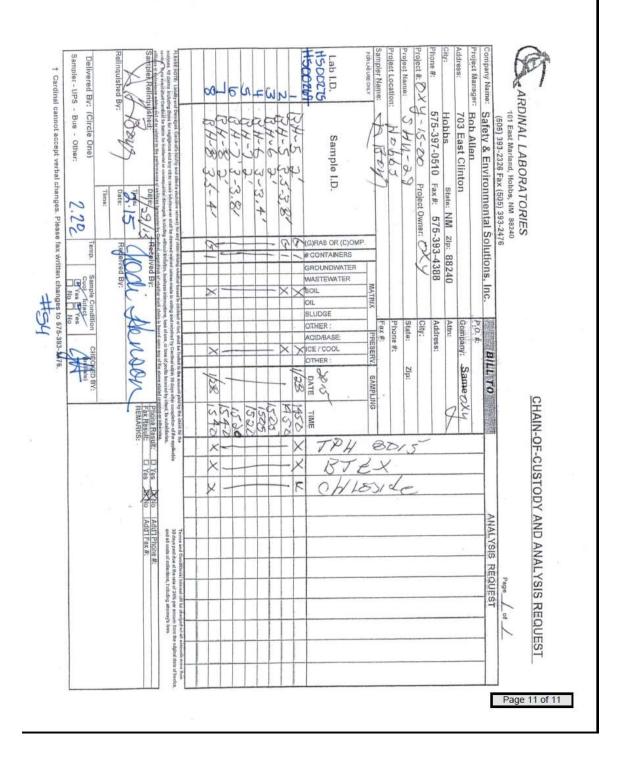
## \*=Accredited Analyte

R56E NOTE: Lability and Damages. Cardina's lability and dents exclusive remedy for any dam analog, whether based in contract or tort, allel be limited to the amount paid by olient for analyses. All dams, including these for mediance and any other cause vehacines relative to damma whether label dams and analog whether based in contract or tort, allel be limited to the amount paid by olient for analyses. All dams, including these for mediance and including, vehacines relatives, basiness relatives of a contract and profile based by client, its absidiants, affiliates or accessors atting out of or mainted to the performance of the services thermulae by Cardinal, ingendees of whether such dams based going on any of the above based indexis relatives in the same based based based based and and whether such dams based going and with above based indexis relatives to the same based based based based and with white happened of calcular based analogs.

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Celey D. Keene, Lab Director/Quality Manager

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# Appendix B C-141

District III Slistist St., Artesia, NM 88210 Energy Miner		tural Resources				Form C-1 evised August 8, 20
District IV 1220 Sc St Enneis Dr. Sente Fe NIM \$7505	nservation outh St. Fi a Fe, NM	ancis Dr.	Sub	mit 1 Copy ad	to appropria cordance wi	ate District Office th 19.15.29 NMA
Release Notificat	é .		Action	1		
		RATOR			al Report	Final Re
Name of Company: OXY	Contac	: Raymond Aguilar	r			
Address: 1017 W Stanolind Road Facility Name: South Hobbs Unit 29 Injection 7	Facility	one No. 575-390-63 Type:	312			
Surface Owner Mineral Own				APING	. 30-025-07	7620
		RELEASE		AFING	. 30-023-01	/020
	ION OF J		East/V	Vest Line	County:	
Latitude 32.691	1010 Long	itude -103,1680			I	
	RE OF R					
Type of Release: Produced Water	Volur	ne of Release: 200BB			Recovered: 2	
Source of Release: 3" Steel Injection		nd Hour of Occurren 2015 11:00PM	ce:	Date and	Hour of Disc	covery
Was Immediate Notice Given?	If YE	5, To Whom?	1			
By Whom? Raymond Aguilar		nd Hour: 1-19-2015	12:34 AN	(left mes	sage)	
Was a Watercourse Reached?		S, Volume Impacting			54 <u>B</u> e/	
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Remedial Action Taken.* The cause of leak was external corrosion					-	
The cause of leak was external corrosion						
	nd submit an	appropriate work plar	1.			
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an						
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an	to the best o ase notificatio by the NMOC ediate contam	f my knowledge and u ns and perform corre D marked as "Final F ination that pose a thu	understan ctive acti Report" de reat to gre	ons for rele oes not reli ound water	eases which i ieve the opera- , surface wat	may endanger ator of liability ter, human health
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	to the best o ase notificatio by the NMOC ediate contam	f my knowledge and u ns and perform corre D marked as "Final F ination that pose a thu	understan ctive acti Report" de reat to gre responsi	ons for rele oes not reli ound water bility for c	eases which i eve the opera- , surface wat ompliance w	may endanger ator of liability ter, human health ith any other
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report	to the best o asse notificatio by the NMOC ediate contam ort does not r	f my knowledge and t ns and perform corre D marked as "Final R ination that pose a thu elieve the operator of	understan ctive acti Report" de reat to gre responsit	ons for releases not reliable on the reliable of the second water bility for contract of the second	eases which i eve the opera- , surface wat ompliance w	may endanger ator of liability ter, human health ith any other
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature: May Charlow	to the best o asse notificatio by the NMOC ediate contam ort does not r	The second secon	anderstan ctive acti Report" de reat to gre responsil SERV	ons for releases not reliable on the reliable of the second water bility for contract of the second	eases which is even the opera- , surface wat ompliance with DIVISIO	may endanger ator of liability ter, human health ith any other
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report balould their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature: Multiply Mu	Approve	The second secon	anderstan ctive acti Report" de reat to gre responsil SERV	ons for rele ours not reli- ound water bility for co ATION	eases which is even the open surface wat ompliance with DIVISIO	may endanger ator of liability ter, human health ith any other <u>N</u>
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report bould their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature: With the state of the state	Approve	my knowledge and t ns and perform corre D marked as "Final F ination that pose a th elieve the operator of <u>OIL CON</u> d by Environmental S Date:	anderstan ctive acti Report" de reat to gre responsil SERV	ons for rele ours not reli- ound water bility for co ATION	eases which is even the opera- , surface wat ompliance with DIVISIO	may endanger ator of liability ter, human health ith any other <u>N</u>
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature: Wy William Title: HES Specialist E-mail Address: Raymond Aguilar@oxy.com	Approve	my knowledge and t ns and perform corre D marked as "Final F ination that pose a th elieve the operator of <u>OIL CON</u> d by Environmental S Date:	anderstan ctive acti Report" de reat to gre responsil SERV	ons for rele ours not reli- ound water bility for co ATION	eases which is even the open surface wat ompliance with DIVISIO	may endanger ator of liability ter, human health ith any other <u>N</u>
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report bould their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature: With the state of the state	Approve	my knowledge and t ns and perform corre D marked as "Final F ination that pose a th elieve the operator of <u>OIL CON</u> d by Environmental S Date:	anderstan ctive acti Report" de reat to gre responsil SERV	ons for rele ours not reli- ound water bility for co ATION	eases which is even the open surface wat ompliance with DIVISIO	may endanger ator of liability ter, human health ith any other <u>N</u>
The cause of leak was external corrosion Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area an I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report bould their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature: With the state of the state	Approve	my knowledge and t ns and perform corre D marked as "Final F ination that pose a th elieve the operator of <u>OIL CON</u> d by Environmental S Date:	anderstan ctive acti Report" de reat to gre responsil SERV	ons for rele ours not reli- ound water bility for co ATION	eases which is even the open surface wat ompliance with DIVISIO	may endanger ator of liability ter, human health ith any other <u>N</u>