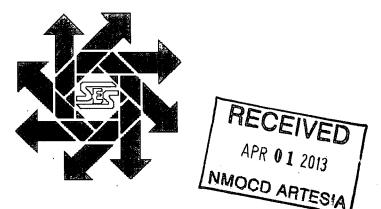
OXY Permian Eeyore 34 State #1 Delineation Report and Work Plan

Section 24, T17S, R28E Eddy County, New Mexico

January 24, 2013



Prepared for:

Oxy Permian P.O. Box 1988 Carlsbad, New Mexico 88221

By:

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

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	BACKGROUND SURFACE AND GROUND WATER WORK PERFORMED ACTION PLAN FIGURES & APPENDICES Figure 1 – Vicinity Map Figure 2 – Site Plan

I. Company Contacts

Representative	tative Company Telephone		E-mail		
Chris Jones	Oxy Permian	575-625-4121	Christopher_Jones@oxy.com		
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com		

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Oxy Permian Company to perform site assessment of a release area at the Eeyore 34 State 001 located in Section 24 of Township 17 South, Range 28 East, Eddy County, New Mexico.

According to the C-141, the cause of the release was due to the valve on a rental frac tank was not closed properly. Approximately 103 barrels (bbls) of produced water was released.

III. Surface and Ground Water

The nearest groundwater of record is approximately 1.3 miles north of the site. The United States Geological Survey record is in Section 22 Range 28 East and Township 17 South. The reported depth was 79 feet below ground surface (bgs).

IV. Work Performed

On November 14, 2012, SESI was onsite at the OXY Eeyore 34 State #1 for a site assessment. The release area was mapped utilizing a Trimble Juno 3D. A total of 5 auger holes were installed to obtain vertical extent of contamination. Refusal on all auger holes was found at one foot depths. There were four (4) Frac Tanks on site where the release occurred and staining was observed underneath the Frac Tanks. Frac tanks will have to be moved for further delineation.

On January 16, 2013, SESI was onsite at the OXY Eeyore 34 State #1 with Alfredo's Trucking Back hoe with an operator to install test trenches to determine vertical extent of contamination. JSA and safety meeting were conducted. Five test trenches were installed and soil samples were obtained at one foot intervals. The samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs NM and analyzed for chlorides (SM4500Cl-B), Benzene, Toluene, Ethyl benzene, Total Xylenes, (BTEX)(EPA method 8021B), and Total petroleum hydrocarbon (TPH) (method 418.1). The results of the analysis are presented in the table below:

Sample ID	Lâb Ĉl (mg/kg)	Lab TPH 418.1 (mg/kg)	Lab Benzene (mg/kg)	Lab Toluene (mg/kg)	Lab Ethyl benzene (mg/kg)	Lâb Xylenes (mg/kg)
TT-1: 1' bgs	128	-	-	-	-	-
TT-1: 2' bgs	32.0	<100	<0.050	<0.050	<0.050	<0.150
TT-2: 1' bgs	2,240		-	-	-	-
TT-2: 2' bgs	144	<100	<0.050	<0.050	< 0.050	<0.150
TT-3: 1' bgs	4,880	-	-	-	-	-
TT-3: 2' bgs	64.0	<100	<0.050	<0.050	<0.050	<0.150
TT-4: 1' bgs	1,070	_	-	-	-	-
TT-4: 2' bgs	816	-	-	_	-	-
TT-4: 3' bgs	48.0	<100	<0.050	<0.050	< 0.050	<0.150

1

TT-5: 1' bgs	416	-	-	-	-	-
TT-5: 2' bgs	16,000	-	-	-	-	-
TT-5: 3' bgs	13,000	-	-	-	-	-
TT-5: 4' bgs	4,400	-	-	-	-	-
TT-5: 6' bgs	224	<100	<0.050	<0.050	<0.050	<0.150

The release area and test trench sample points were mapped using the Trimble Juno 3D and site photos were taken.

V. Action Plan

The results of the analysis indicate that the vertical extent of contamination was found in all test trenches at a depth of two (2) ft. bgs in TT 1-3, at three (3) ft. bgs in TT-4 and at six (6) ft. bgs in TT-5. It is proposed that the most highly contaminated and/or saturated soils be excavated, which in this case, TT 1-3 area be excavated to a depth of 1.5 ft. bgs; TT 4 area to a depth of 2.5 ft. bgs; and TT-5 area to a depth of 5 ft. The excavated soils will be transported to a New Mexico Oil Conservation Division (NMOCD) approved facility for disposal. The excavations will then be backfilled with clean caliche and compacted to the original pad elevation.

This is an active tank battery and the operator is fully aware that at such time the battery and lease is abandoned, additional cleanup may be required.

Upon completion a closure report will be submitted to the NMOCD.

VI. Figures & Appendices

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

Figure 1 Vicinity Map

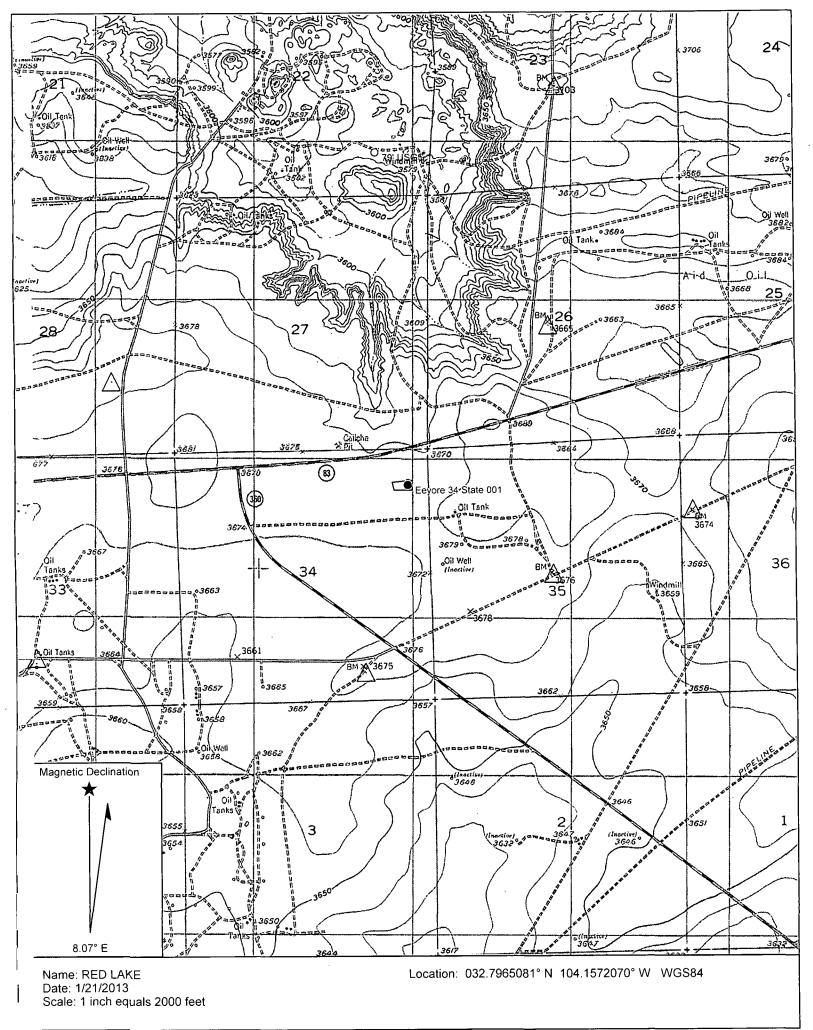
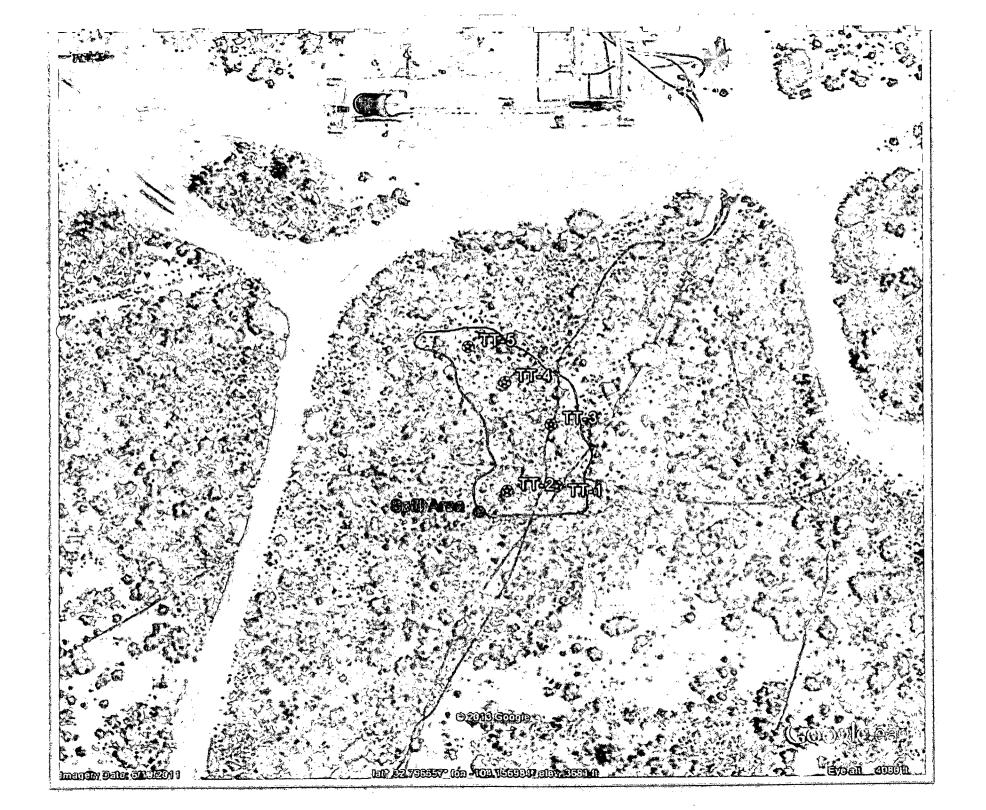


Figure 2 Site Plan



Appendix A Analytical Results



January 24, 2013

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

APR 01 2013

RE: EEYORE 34 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 01/18/13 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/18/2013	Sampling Date:	01/16/2013
Reported:	01/24/2013	Sampling Type:	Soil
Project Name:	EEYORE 34 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	OXY-12-018	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, EDDY COUNTY		

Sample ID: TT - 1 1' BGS (H300137-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/22/2013	ND	448	112	400	3.64	

Sample ID: TT - 1 2' BGS (H300137-02)

BTEX 8021B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6						
Chloride, SM4500CI-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	01/22/2013	ND	448	112	400	3.64	
ТРН 418.1	mg/kg Analyzee		d By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	01/24/2013	ND	2100	84.0	2500	3.28	

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Received:	01/18/2013	Sampling Date:	01/16/2013
Reported:	01/24/2013	Sampling Type:	Soil
Project Name:	EEYORE 34 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	OXY-12-018	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, EDDY COUNTY		

Sample ID: TT - 2 1' BGS (H300137-03)

Chloride, SM4500CI-B	.mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	01/22/2013	ND	448	112	400	3.64	

Sample ID: TT - 2 2' BGS (H300137-04)

Analyte	mg,	/kg	Analyzed By: AP		•				
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC 102 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze					RPD	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC		Qualifier
Chloride	144	16.0	01/22/2013	ND	448	112	400	3.64	·
TPH 418.1	mg,	/kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	01/24/2013	ND	2100	84.0	2500	3.28	

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Celey D. Keene, Lab Director/Quality Manager

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Received:	01/18/2013	Sampling Date:	01/16/2013
Reported:	01/24/2013	Sampling Type:	Soil
Project Name:	EEYORE 34 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	OXY-12-018	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, EDDY COUNTY		

Sample ID: TT - 3 1' BGS (H300137-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	01/22/2013	ND	448	112	400	3.64	

Sample ID: TT - 3 2' BGS (H300137-06)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP		, , _ .			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/22/2013	ND	448	112	400	3.64	
ТРН 418.1	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	01/24/2013	ND	2100	84.0	2500	3.28	

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Received:	01/18/2013	Sampling Date:	01/16/2013
Reported:	01/24/2013	Sampling Type:	Soil
Project Name:	EEYORE 34 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	OXY-12-018	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, EDDY COUNTY		

Sample ID: TT - 4 1' BGS (H300137-07)

Chloride, SM4500Cl-B	M4500Cl-B mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	01/22/2013	ND	448	112	400	3.64	

Sample ID: TT - 4 2' BGS (H300137-08)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/22/2013	ND	448	112	400	3.64	

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Analytical Results For:

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

Received:	01/18/2013	Sampling Date:	01/16/2013	
Reported:	01/24/2013	Sampling Type:	Soil	
Project Name:	EEYORE 34 STATE #1	Sampling Condition:	Cool & Intact	
Project Number:	OXY-12-018	Sample Received By:	Jodi Henson	
Project Location:	LOCO HILLS, EDDY COUNTY			

Sample ID: TT - 4 3' BGS (H300137-09)

BTEX 8021B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94 ·	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/22/2013	ND	448	112	400	3.64	
TPH 418.1	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	01/24/2013	ND	2100	84.0	2500	3.28	

Sample ID: TT - 5 1' BGS (H300137-10)

Chloride, SM4500CI-B mg/kg		Analyze	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/22/2013	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	01/18/2013	Sampling Date:	01/16/2013
Reported:	01/24/2013	Sampling Type:	Soil
Project Name:	EEYORE 34 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	OXY-12-018	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, EDDY COUNTY		

Sample ID: TT - 5 2' BGS (H300137-11)

Chloride, SM4500Cl-B	ride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AP			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	01/22/2013	ND	448	112	400	3.64	

Sample ID: TT - 5 3' BGS (H300137-12)

Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	01/22/2013	ND	448	112	400 .	3.64	

Sample ID: TT - 5 4' BGS (H300137-13)

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	01/22/2013	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

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Received:	01/18/2013	Sampling Date:	01/16/2013
Reported:	01/24/2013	Sampling Type:	Soil
Project Name:	EEYORE 34 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	OXY-12-018	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, EDDY COUNTY		

Sample ID: TT - 5 6' BGS (H300137-14)

BTEX 8021B		kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ne*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
ne*	<0.050	0.050	01/22/2013	ND	1.93	96.6	·2.00	16.7	
enzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
BTEX	<0.300	0.300	01/22/2013	ND					
gate: 4-Bromofluorobenzene (PIL	99.6	% 89.4~12	6						
de, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ride	224	16.0	01/22/2013	ND	448	112	400	3.64	
TPH 418.1		kg -	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
18.1	<100	100	01/24/2013	ND ·	2100	84.0	2500	3.28	
Analyte		Reporting Limit	Analyzed	Method Blank					

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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

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240

(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name:	Safety & Environmental S	Solutions, Inc.	BILL TO				ANALYSI	S RÉC	QUEST			
Project Manager:		P.O. #:										
Address:	703 East Clinton	_{Company:} Same										
City:	Hobbs State: NM	Alto:										
Phone #:	575-397-0510 Fax#: 575	-393-4388	Address:									
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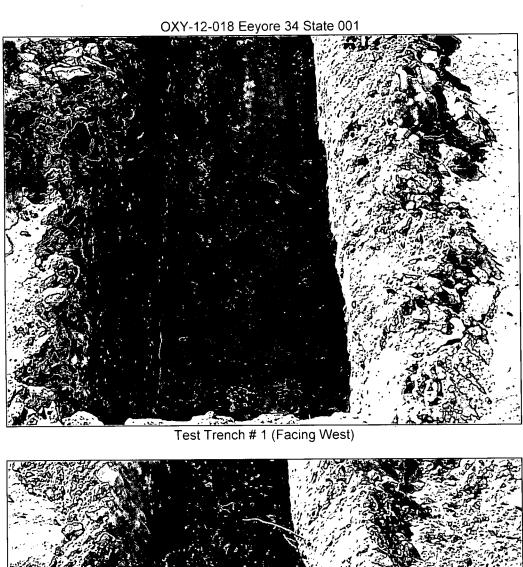
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

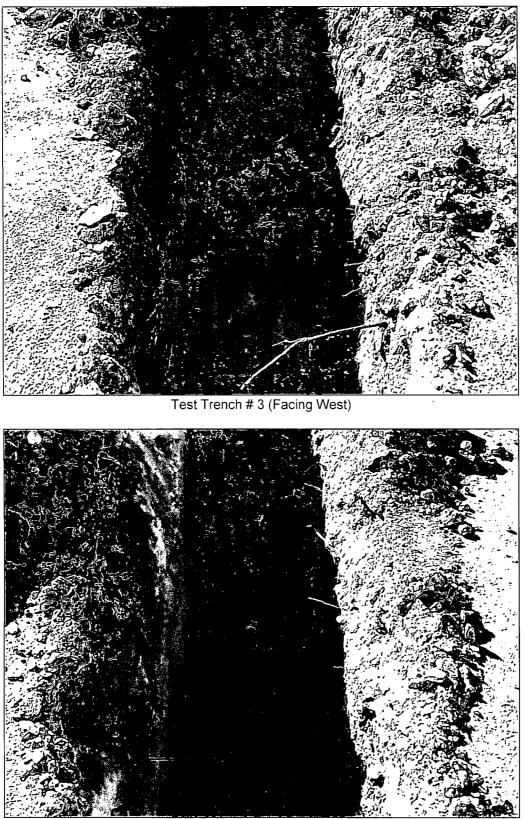
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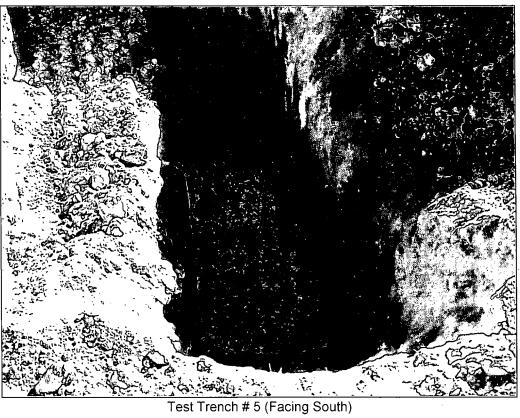
Appendix B Site Photographs

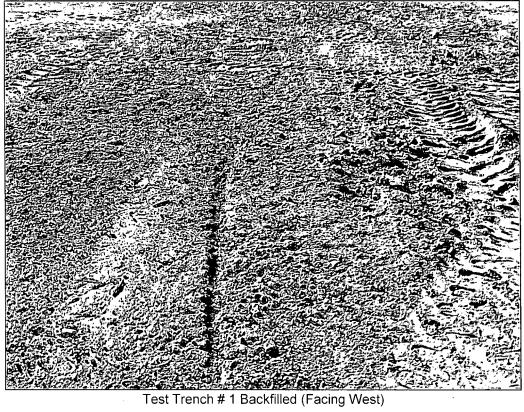


Test Trench # 2 (Facing West)



Test Trench # 4 (Facing West)



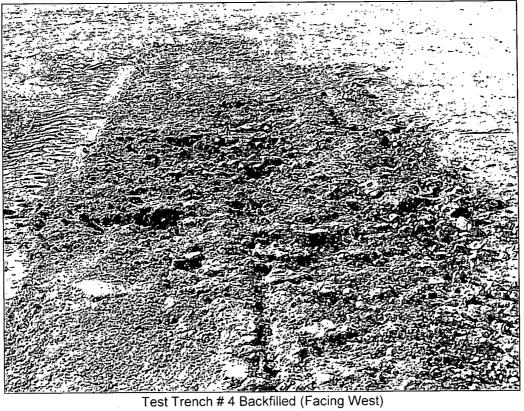




Test Trench # 2 Backfilled (Facing West)



Test Trench # 3 Backfilled (Facing West)





Test Trench # 5 Backfilled (Facing South)

Appendix C C-141

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