

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Wednesday, January 30, 2013 1:02 PM
To: Christopher_Jones@oxy.com; Sergio Contreras; 'Susana Rodriguez'
Subject: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

Reference: Occidental Permian * Eeyore 34 St 1 * 30-015-39383 * A-34-17s-28e * Eddy County, New Mexico
NMOCD Tracking Number: 2RP-1405 * Date of release: 11/11/12

Greetings,

OCD is in receipt of a proposal for remediation of the above referenced release. The proposal was submitted by SESI on behalf of Occidental Permian. The proposal is approved.

Please check the aerial map, in the proposal, with the spill outline. It is OCD's understanding that the release was confined to the well pad. The aerial map shows the release in the pasture to the south. Please advise.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Susana Rodriguez [<mailto:office2@sesi-nm.com>]
Sent: Wednesday, January 30, 2013 11:38 AM
To: Christopher_Jones@oxy.com
Cc: Sergio Contreras; Bratcher, Mike, EMNRD
Subject: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

Mr. Jones:

Mike Bratcher said we can go ahead with the workplan he spoke to Sergio earlier and approved the workplan, I am waiting on confirmation e-mail from Mike as soon I get that I will forward it to you for your records.

Thank you,

Susana Rodriguez
Administrative Assistant
Safety & Environmental Solutions, Inc.
Office: 575.397.0510

Fax: 575.393.4388
Cell: 575.390.7065
E-mail: office2@sesi-nm.com

From: [Christopher Jones@oxy.com](mailto:Christopher_Jones@oxy.com) [mailto:Christopher_Jones@oxy.com]
Sent: Friday, January 25, 2013 9:33 AM
To: office2@sesi-nm.com
Subject: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

Everything looks good. I propose that the cleanup plan be, lets excavate from samples point 1-3 a 1.5' excavation; SP 4 2.5'; and SP 5 5', and then backfill the pad with caliche.

My next question is are yall going to pitch this with OCD & BLM or am I. I am not familiar with the way that yall handle spills for people. Either way I am good with, just need to know.

Chris Jones
HES Specialist
Permian Primary Production
Carlsbad, NM
Cell 575-499-3337
Off 575-628-4121

***"We do not inherit the earth from
our ancestors; we borrow it from
our children." Chief Seattle***

From: Susana Rodriguez [mailto:office2@sesi-nm.com]
Sent: Friday, January 25, 2013 9:01 AM
To: Jones, Christopher K
Cc: Sergio Contreras; Jerry Sosa
Subject: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

Mr. Jones:

Attached please find the delineation report/workplan for the Eeyore 34 State 1. Please let us know if you have any corrections or changes that need to be made before submitting this report to the OCD.

Thank you,

Susana Rodriguez
Administrative Assistant
Safety & Environmental Solutions, Inc.
Office: 575.397.0510
Fax: 575.393.4388
Cell: 575.390.7065
E-mail: office2@sesi-nm.com

Bratcher, Mike, EMNRD

From: Microsoft Outlook
To: Christopher_Jones@oxy.com; Sergio Contreras; Susana Rodriguez
Sent: Wednesday, January 30, 2013 1:02 PM
Subject: Relayed: RE: Eeyore 34 State #1 Delineation Report/Wrkplan

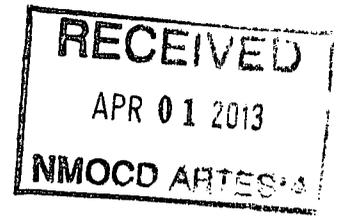
Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

[Christopher Jones@oxy.com \(Christopher Jones@oxy.com\)](mailto:Christopher_Jones@oxy.com)

[Sergio Contreras \(scontreras@sesi-nm.com\)](mailto:scontreras@sesi-nm.com)

[Susana Rodriguez \(office2@sesi-nm.com\)](mailto:office2@sesi-nm.com)

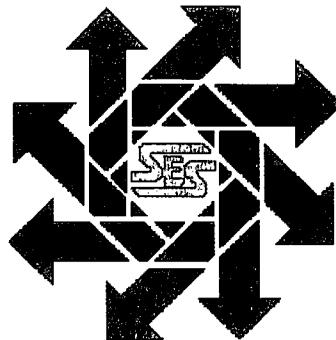
Subject: RE: Eeyore 34 State #1 Delineation Report/Wrkplan



OXY Permian Eeyore 34 State #1 Closure Report

**Section 24, T17S, R28E
Eddy County, New Mexico**

March 8, 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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I. Company Contacts

Representative	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 New Mexico and analyzed for Chloride (Cl⁻) (Method 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	Cl ⁻ (mg/kg)	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	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	-	-	-	-	-

Sample ID	Cl ⁻ (mg/kg)	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)
TT-4: 3' bgs	48.0	<100	<0.050	<0.050	<0.050	<0.150
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.

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.

The most highly contaminated and/or saturated soils were 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.

Confirmation sampling was conducted on February 15, 2013. The samples were properly packaged, preserved and transported to Cardinal Laboratories and analyzed for Cl⁻, BTEX, and TPH. The results of the analysis are presented in the table below:

Sample ID	Cl ⁻ (mg/kg)	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)
SP-1: 5' bgs	160	<100	<0.050	<0.050	<0.050	<0.150
SP-2: 1.5' bgs	64	<100	<0.050	<0.050	<0.050	<0.150
SP-3: 1.5' bgs	176	<100	<0.050	<0.050	<0.050	<0.150
SP-4: 2.5' bgs	160	<100	<0.050	<0.050	<0.050	<0.150
N.Wall, 1.5' bgs	96	<100	<0.050	<0.050	<0.050	<0.150
E. Wall, 1.5' bgs	320	<100	<0.050	<0.050	<0.050	<0.150
S. Wall 1.5' bgs	32	<100	<0.050	<0.050	<0.050	<0.150
W. Wall, 1.5' bgs	32	<100	<0.050	<0.050	<0.050	<0.150

A total of 252 yards of excavated soils were transported to Lea Land, a New Mexico Oil Conservation Division (NMOCD) approved facility for disposal. The excavation was backfilled with 268 yards of clean caliche and compacted to the original pad elevation.

V. Conclusion

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.

Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements.

As a result, we respectfully submit this closure report for your consideration and approval.

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



Name: RED LAKE
Date: 3/11/2013
Scale: 1 inch equals 4000 feet

Location: 032.7967716° N 104.1571623° W WGS84

**Figure 2
Site Plan**



TT-5

TT-4

TT-3

TT-2

TT-1

Scall Area

© 2013 Google

Google Earth

Appendix A

Analytical Results



January 24, 2013

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

RE: EYORE 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_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent "C" and "K".

Celey D. Keene
Lab Director/Quality Manager

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 - 1 1' BGS (H300137-01)

Chloride, SM4500CI-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 (PIE) 104 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/22/2013	ND	448	112	400	3.64		

TPH 418.1		mg/kg		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		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 - 2 1' BGS (H300137-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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)

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 (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/22/2013	ND	448	112	400	3.64		

TPH 418.1		mg/kg		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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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 - 3 1' BGS (H300137-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 (PIC) 102 % 89.4-126

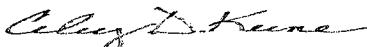
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/22/2013	ND	448	112	400	3.64		

TPH 418.1		mg/kg		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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*=Accredited Analyte

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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	mg/kg	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	

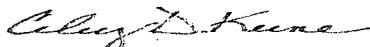
Sample ID: TT - 4 2' BGS (H300137-08)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/22/2013	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 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		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 (PII) 102 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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	

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

Chloride, SM4500CI-B		mg/kg		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	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 - 5 2' BGS (H300137-11)

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

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 - 5 6' BGS (H300137-14)

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 (PIC) 99.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/22/2013	ND	448	112	400	3.64		

TPH 418.1		mg/kg		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

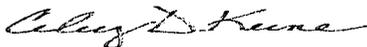
Notes and Definitions

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

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Celest D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: Safety & Environmental Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Bob Allen				P.O. #:				<div style="display: flex; justify-content: space-around; font-size: 2em; font-weight: bold;"> TPH (41&1) BTEX CHLORIDES </div>																							
Address: 703 East Clinton				Company: Same																											
City: Hobbs State: NM Zip: 88240				Attn:																											
Phone #: 575-397-0510 Fax #: 575-393-4388				Address:																											
Project #: OXY-12-018 Project Owner: OXY				City:																											
Project Name: Ecycore 34 - STATE #1				State: Zip:																											
Project Location: Wood Hills, Eddy Co.				Phone #:																											
Sampler Name: Sgt. Jerry				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL													OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE		TIME			
H300137				G	1		X				X	X	X	01/16		1340															
		12 TF-5 3' BGS		G	1		X				X	X	X	01/16		1400															
		13 TF-5 4' BGS		G	1		X				X	X	X	01/16		1410															
		14 TF-5 6' BGS		G	1		X				X			01/16		1445															

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

Sampler Relinquished By: <i>Sgt. Jerry</i>		Date: 01/18/13		Received By: <i>Rock Henderson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Reinquished By:		Time: 0800		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Temp: 1.5°C		Sample Condition		CHECKED BY: <i>[Signature]</i>		REMARKS:	
Sampler - UPS - Bus - Other:				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					

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

#26

February 26, 2013

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



RE: EYORE 34 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/18/13 14:30.

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_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/18/2013	Sampling Date:	02/15/2013
Reported:	02/26/2013	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: SP-1 5' BGS (H300444-01)

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	02/21/2013	ND	2.31	116	2.00	6.54		
Toluene*	<0.050	0.050	02/21/2013	ND	2.41	121	2.00	9.30		
Ethylbenzene*	<0.050	0.050	02/21/2013	ND	2.33	116	2.00	8.52		
Total Xylenes*	<0.150	0.150	02/21/2013	ND	7.27	121	6.00	9.48		
Total BTEX	<0.300	0.300	02/21/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/21/2013	ND	432	108	400	0.00		

TPH 418.1		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236		

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Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/18/2013
 Reported: 02/26/2013
 Project Name: EEYORE 34 STATE #1
 Project Number: OXY-12-018
 Project Location: LOCO HILLS, EDDY COUNTY

 Sampling Date: 02/15/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-2 1.5' BGS (H300444-02)

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	02/21/2013	ND	2.31	116	2.00	6.54		
Toluene*	<0.050	0.050	02/21/2013	ND	2.41	121	2.00	9.30		
Ethylbenzene*	<0.050	0.050	02/21/2013	ND	2.33	116	2.00	8.52		
Total Xylenes*	<0.150	0.150	02/21/2013	ND	7.27	121	6.00	9.48		
Total BTEX	<0.300	0.300	02/21/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/21/2013	ND	432	108	400	0.00		

TPH 418.1		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/18/2013	Sampling Date:	02/15/2013
Reported:	02/26/2013	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: SP-3 1.5' BGS (H300444-03)

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	02/22/2013	ND	2.07	104	2.00	5.77		
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81		
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38		
Total BTEX	<0.300	0.300	02/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/21/2013	ND	432	108	400	0.00		

TPH 418.1		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/18/2013	Sampling Date:	02/15/2013
Reported:	02/26/2013	Sampling Type:	Soil
Project Name:	EEYOORE 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: SP-4 2.5' BGS (H300444-04)

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	02/22/2013	ND	2.07	104	2.00	5.77		
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81		
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38		
Total BTEX	<0.300	0.300	02/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/21/2013	ND	432	108	400	0.00		

TPH 418.1		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236		

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/18/2013	Sampling Date:	02/15/2013
Reported:	02/26/2013	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: SOUTH WALL 1.5' BGS (H300444-05)

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	02/22/2013	ND	2.07	104	2.00	5.77		
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81		
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38		
Total BTEX	<0.300	0.300	02/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

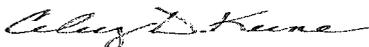
Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/21/2013	ND	432	108	400	0.00		

TPH 418.1		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236		

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/18/2013	Sampling Date:	02/15/2013
Reported:	02/26/2013	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: WEST WALL 1.5' BGS (H300444-06)

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	02/22/2013	ND	2.07	104	2.00	5.77		
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81		
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38		
Total BTEX	<0.300	0.300	02/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/21/2013	ND	432	108	400	0.00		

TPH 418.1		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/18/2013	Sampling Date:	02/15/2013
Reported:	02/26/2013	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: NORTH WALL 1.5' BGS (H300444-07)

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	02/22/2013	ND	2.07	104	2.00	5.77		
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81		
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38		
Total BTEX	<0.300	0.300	02/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

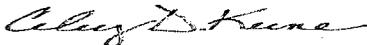
Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/21/2013	ND	432	108	400	0.00		

TPH 418.1		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/18/2013	Sampling Date:	02/18/2013
Reported:	02/26/2013	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: EAST WALL 1.5' BGS (H300444-08)

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	02/22/2013	ND	2.07	104	2.00	5.77		
Toluene*	<0.050	0.050	02/22/2013	ND	2.03	102	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/22/2013	ND	1.96	98.1	2.00	5.81		
Total Xylenes*	<0.150	0.150	02/22/2013	ND	6.10	102	6.00	5.38		
Total BTEX	<0.300	0.300	02/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

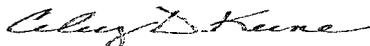
Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/21/2013	ND	432	108	400	0.00		

TPH 418.1		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	<100	100	02/25/2013	ND	4230	84.5	5000	0.236		

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Celey D. Keene, Lab Director/Quality Manager

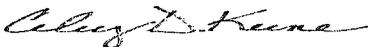
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Safety & Environmental Solutions, Inc.		BILL TO		ANALYSIS REQUEST																					
Project Manager: Bob Allen		P.O. #:																							
Address: 703 East Clinton		Company: Same																							
City: Hobbs State: NM Zip: 88240		Attn:																							
Phone #: 575-397-0510 Fax #: 575-393-4388		Address:																							
Project #: OXY-12-018 Project Owner: OXY		City:																							
Project Name: ECYORE 34 STATE #1		State: Zip:																							
Project Location: Logo Hills (EDDY CO)		Phone #:																							
Sampler Name: Son Jerry		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G) BAG OR (C) CAMP	# CONTAINERS	MATRIX				PRESERV			SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME											
H300444																									
1	SP-1 5' BGS	G	1			X					X		02/15	0940	X	X	X								
2	SP-2 1.5' BGS	G	1			X					X		02/15	1220											
3	SP-3 1.5' BGS	G	1			X					X		02/15	1205											
4	SP-4 2.5' BGS	G	1			X					X		02/15	1110											
5	SOUTH WALL 1.5' BGS	G	1			X					X		02/15	0955											
6	WEST WALL 1.5' BGS	G	1			X					X		02/15	1005											
7	NORTH WALL 1.5' BGS	G	1			X					X		02/15	1050											
8	EAST WALL 1.5' BGS	G	1			X					X		02/15	1130	X	X	X								

TPH (418.1)
BTEX
CHLORIDES

PLEASE NOTE: Liability and Damages, Cardinal's ability and service restrictions remain. No any other claims or other based in contract or tort shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed void unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of time, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder. Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

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

Sampler Relinquished By: Son Jerry		Date: 02/15/13	Received By: Jodi Jensen	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 1430	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Temp: 50	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: JTS	
REMARKS:					

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

#26

Appendix B

Site Photographs



Test Trench # 1 (Facing West)



Test Trench # 2 (Facing West)



Test Trench # 3 (Facing West)



Test Trench # 4 (Facing West)



Test Trench # 5 (Facing South)



Test Trench # 1 Backfilled (Facing West)



Test Trench # 2 Backfilled (Facing West)



Test Trench # 3 Backfilled (Facing West)



Test Trench # 4 Backfilled (Facing West)



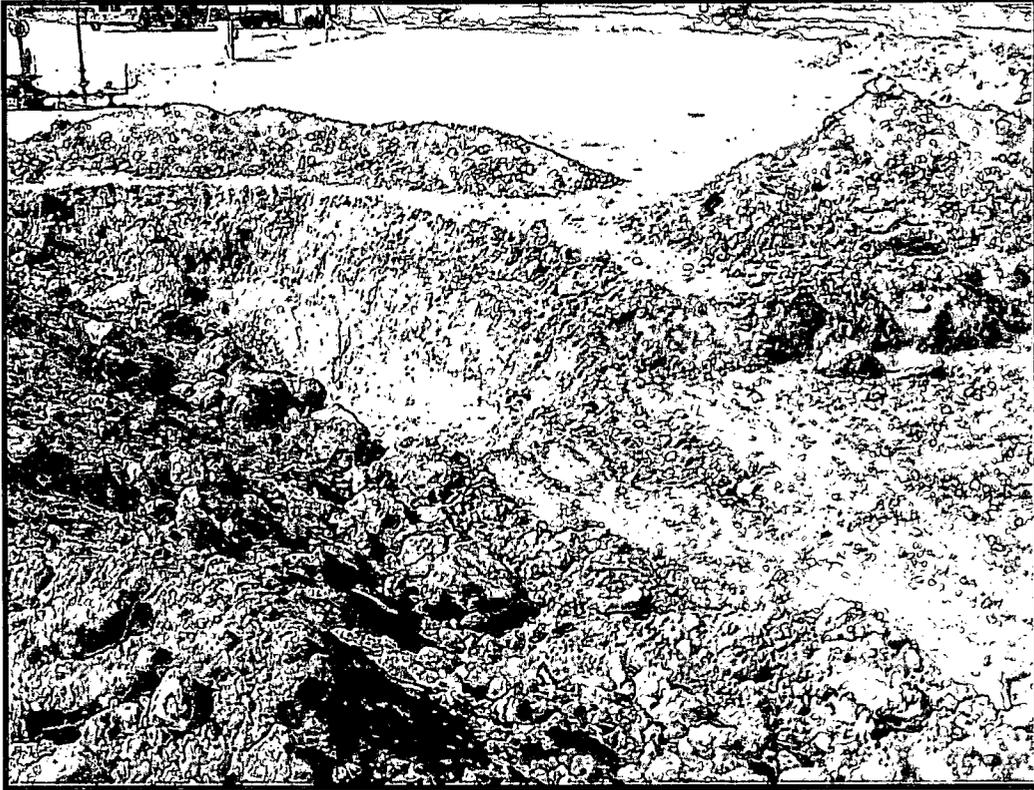
Test Trench # 5 Backfilled (Facing South)



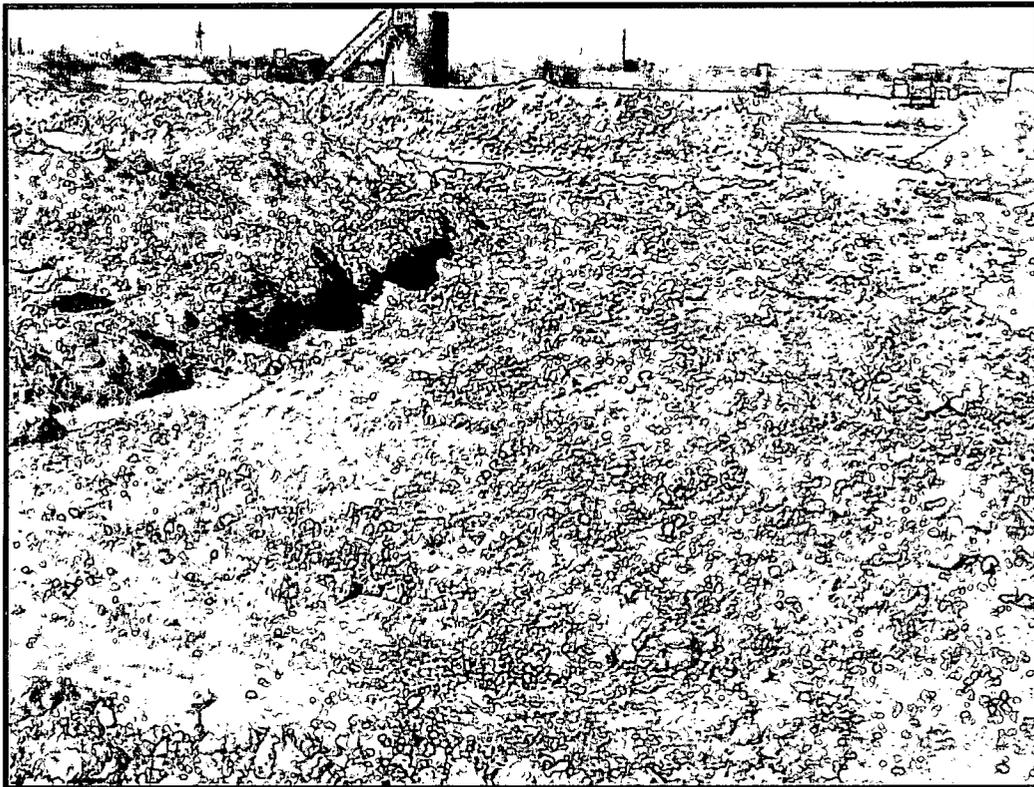
Excavation 1.5 ft. (Facing West)



Excavation 1.5 ft. (Facing Northwest)



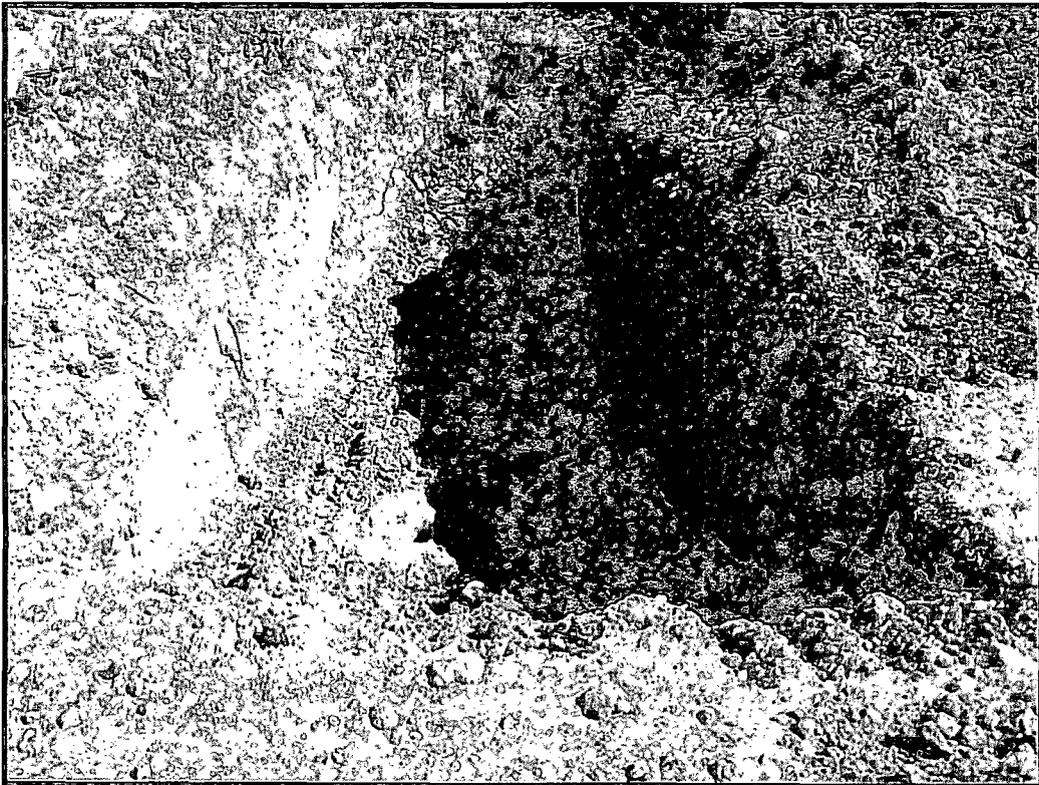
Excavation 5ft. (Facing West)



Excavation 1.5 ft. (Facing North)



Excavation 1.5 ft. (Facing North)



Excavation 5 ft. (Facing East)



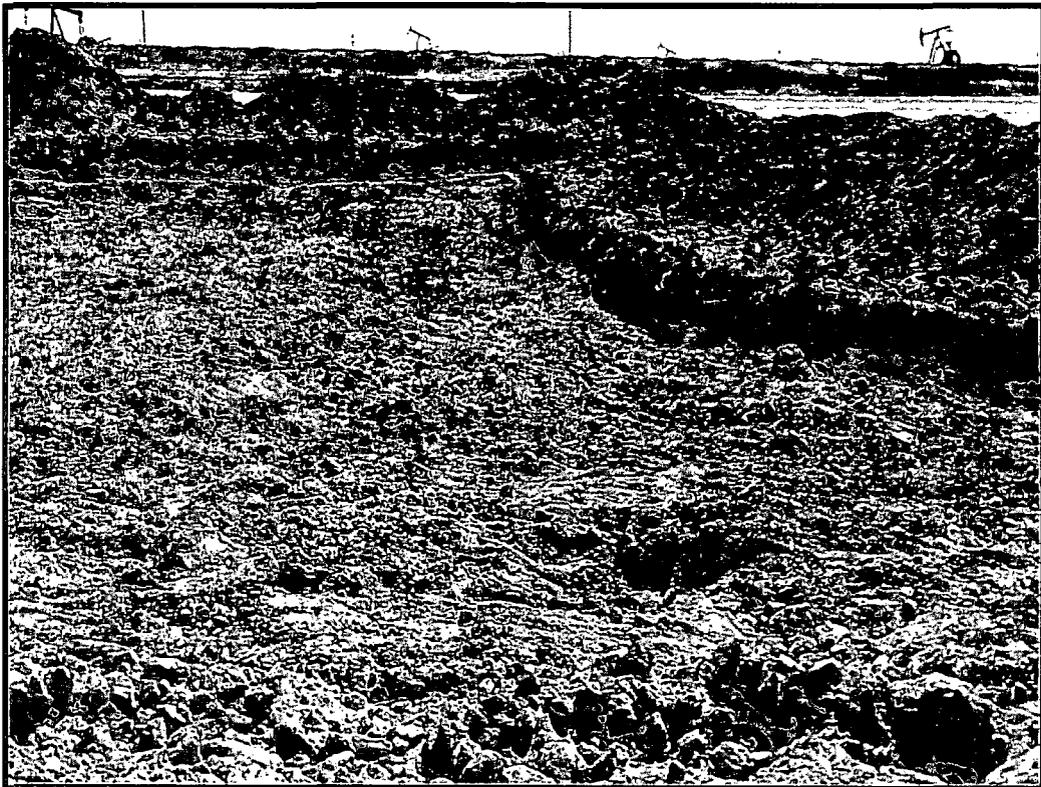
Excavation 2.5 ft. (Facing East)



Excavation 2.5 ft. (Facing Southeast)



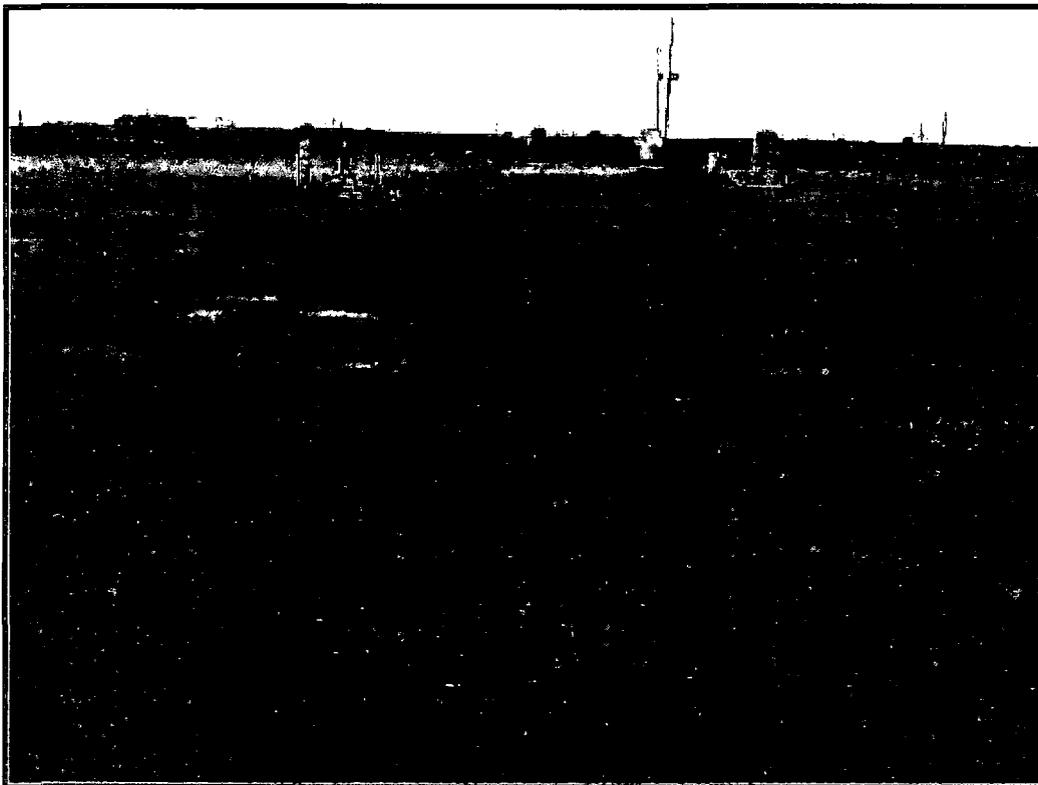
Excavation 1.5 ft. (Facing South)



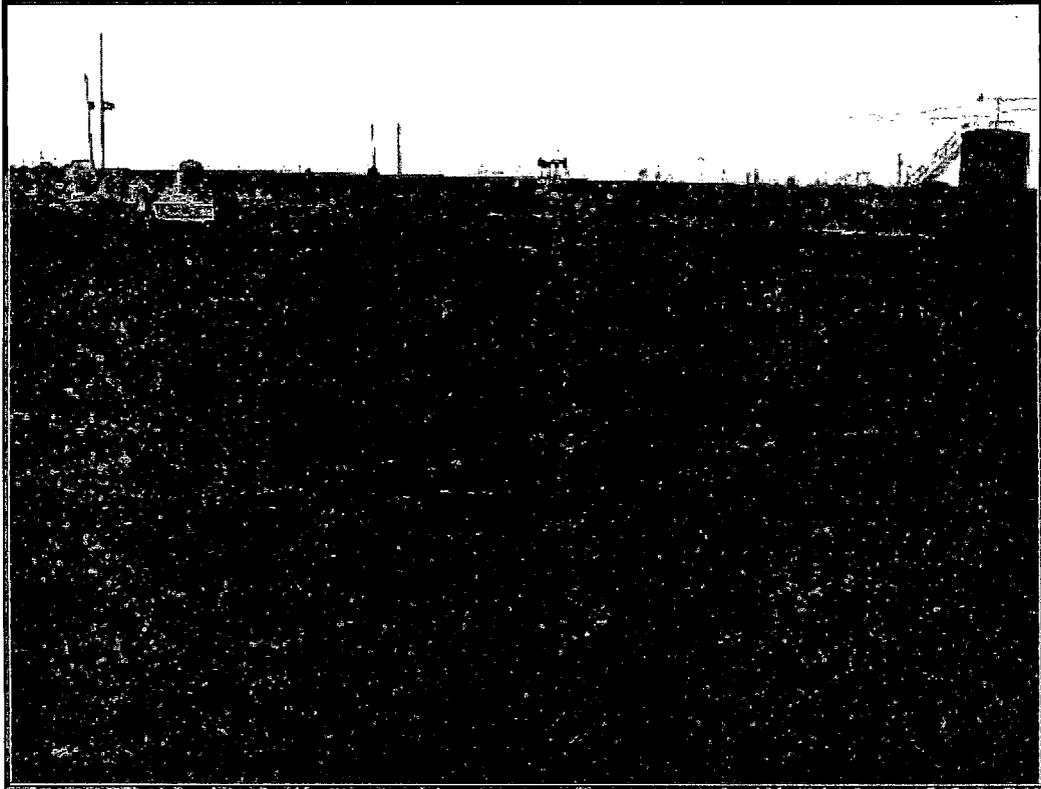
Excavation 1.5 ft. (Facing South)



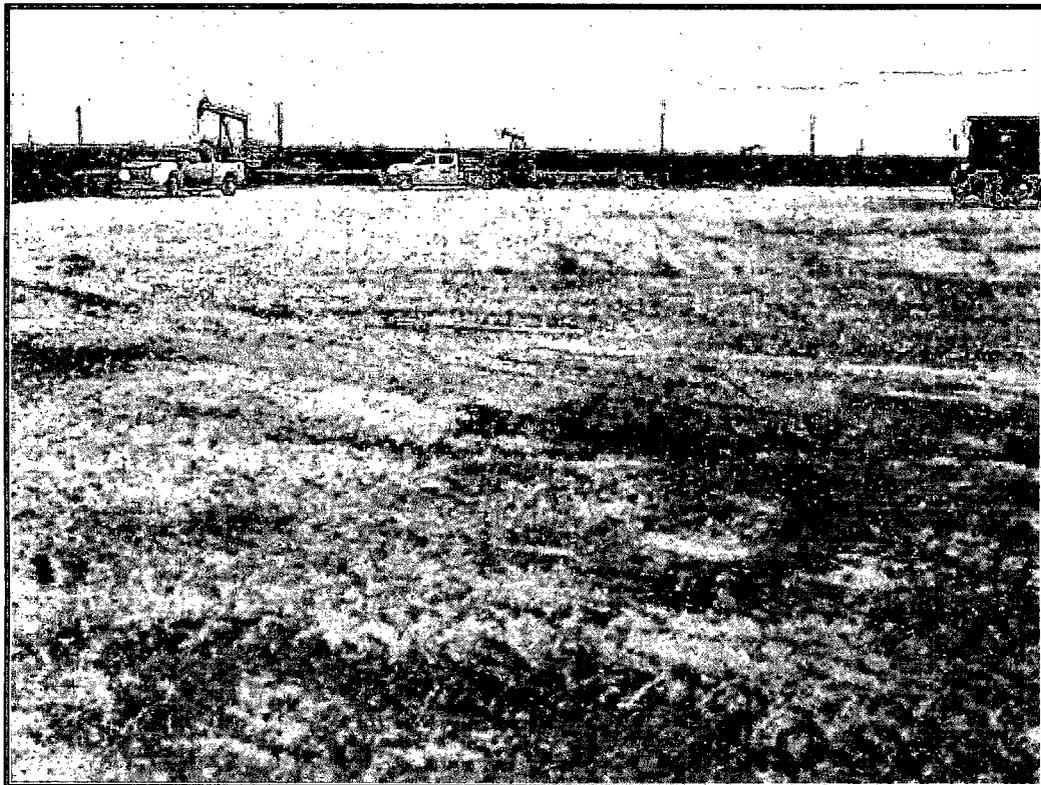
Excavation 1.5 ft. (Facing South)



Excavation Backfilled (Facing West)



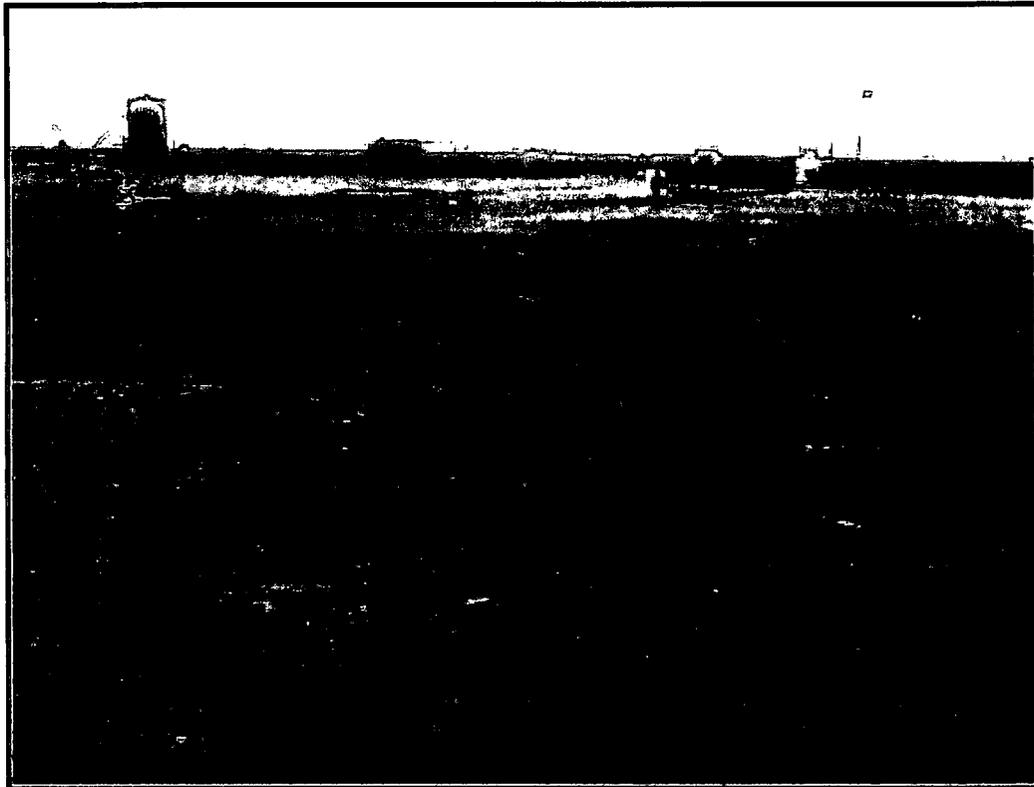
Excavation Backfilled (Facing West)



Excavation Backfilled (Facing South)



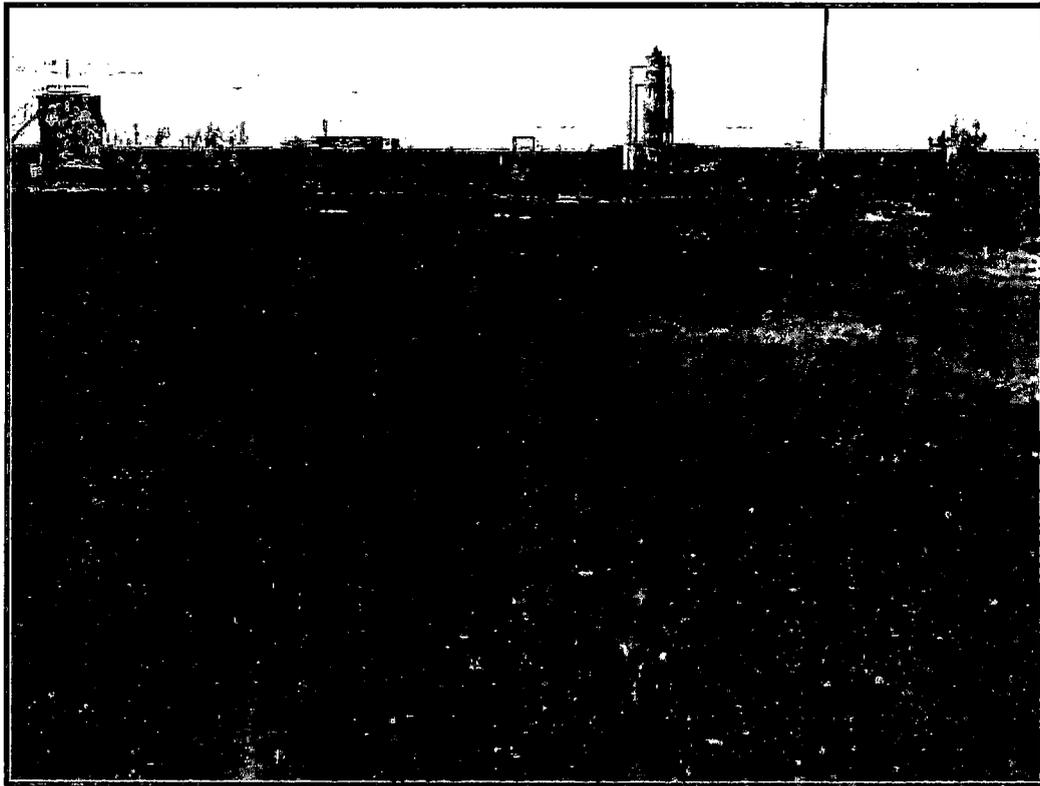
Excavation Backfilled (Facing South)



Excavation Backfilled (Facing West)



Excavation Backfilled (Facing West)



Excavation Backfilled (Facing North)



Excavation Backfilled (Facing North)



Excavation Backfilled (Facing North)

Appendix C
C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 88201
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED
APR 01 2013
NMOCD ARTESIA

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Oxy USA Inc	Contact Chris Jones
Address 1502 W. Commerce Drive	Telephone No. 575-449-3337
Facility Name: Eeyore 34 State #1	Facility Type: Producing Well

Surface Owner	Mineral Owner	API No. 3001539383
---------------	---------------	--------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	34	17 S	28 E	738	N	488	E	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 103 BBLs	Volume Recovered: 100 BBLs
Source of Release: Frac Tank	Date and Hour of Occurrence: 11/11/12 9:00 pm	Date and Hour of Discovery: 11/11/12 9:30 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher- NMOCD Jim Amos- BLM	
By Whom? Chris Jones	Date and Hour: 11/13/12 1:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

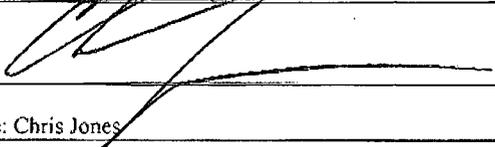
Describe Cause of Problem and Remedial Action Taken.*

A valve was properly shut on a frac tank and released produced water on the well pad. A vac truck was on site and able to get the majority of it cleaned up. It was isolated to an area on the well pad. SESI will do some initial sampling and we will come up with a plan for clean up based off of that for proposal.

Describe Area Affected and Cleanup Action Taken.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:	
Printed Name: Chris Jones	Approval Date:	Expiration Date:
Title: HES Specialist	Conditions of Approval:	
E-mail Address: Christopher_Jones@oxy.com	Attached <input type="checkbox"/>	
Date: _____ Phone: 575-449-3337		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Oxy USA Inc (157984)	Contact: Chris Jones
Address: 1502 W. Commerce Dr.	Telephone No.: 575-449-3337
Facility Name: Eeyore 34 State #1	Facility Type: Producing Well

Surface Owner	Mineral Owner	API No. 30-015-39383
---------------	---------------	----------------------

LOCATION OF RELEASE 2RP-1405

Unit Letter	Section:	Township:	Range	Feet from the	North/South Line	Feet from the	East/West Line	County:
A	34	17S	28E	738	N	488	E	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

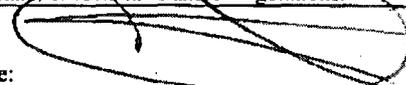
Type of Release Produced Water	Volume of Release 103 BBLs	Volume Recovered 100Bbls
Source of Release Frac Tank	Date and Hour of Occurrence 11/11/12 9:00 P.M.	Date and Hour of Discovery 11/11/12 9:30 P.M.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher NMOCD Jim Amos BLM	
By Whom?	Date and Hour 11/13/12 1:00 P.M.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A valve was properly shot on a frac tank and released produced water onto the well pad. A vacuum truck was on site and utilized to recover most of the spill. The Soil was isolated to an area on the well pad. SESI was retained to assess the spill/

Describe Area Affected and Cleanup Action Taken.*
SESI delineated the site and remediated the same in accordance with the work plan and NMOCD guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Chris Jones Christopher Jones	Approved by Environmental Specialist:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: Christopher_jones@oxy.com	Conditions of Approval:	
Date: 06/30/15 Phone: 575-449-3337	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary