

**Devon Energy Production Co LP
Cooter 16 State Com, 5H
API 30-015-37627
Delineation Report and Work Plan**

**Unit Letter D, Section 16, T25S, R29E
Eddy County, New Mexico
2RP-3064**

July 15, 2015



Prepared for:

**Devon Energy Production Co., LP
PO Box 250
Artesia, New Mexico 88211**

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
Brett Fulks	Devon Energy Prod.	575-748-1844	Brett.Fulks@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Alfredo's Trucking to perform site delineation on the Cooter 16 State Com 5H, concerning a spill of oil and produced water measuring approximately 8 bbls in volume. The impacted area was limited to the pad area, and encompassed approximately 11,375.05 sq. ft. This site is situated in Eddy County, Section 16, Township 25S, and Range 29E.

According to the C-141: the cause of impact was as the result of a compromised gasket around the fire tube of the heater treater, creating a blow out of oil and produced water. This C-141 was filed with the NMOCD on June 22, 2015 and assigned **2RP-3064**.

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. According to the topography map for Eddy County the depth to ground water for Section 16, Township 25S, Range 29E is approximately 141 bgs. Further research of the New Mexico Office of the State Engineer records indicate the average depth to groundwater for the area (6 mile radius) to be 42' bgs. Thereby, posing no eminent threat or danger to life forms in the area.

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, ethyl benzene, and total xylenes (BTEX), and 100 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 1000 mg/kg (PPM) is also required.

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
RANKING SCORE (TOTAL POINTS)			0

V. Work Performed

On June 22, 2015 SESI personnel conducted an initial assessment of the site. Photos were taken and the spill area mapped, whereby it was observed that the spill area was to the north of the battery area.

On July 02, 2015, SESI personnel visited the site to conduct a vertical and horizontal delineation of the impacted area by installing auger holes in around the impacted area. The Field Technician determined that five (5) sample point positions would be sufficient given the dynamics and outlay of the area i.e. number of lines and tanks. The five (5) sample point positions were hand augured to depths of 6" and 1' bgs., respectively. Representative soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX), Chloride (Cl⁻) (Method SM 4500Cl-B), as well as Total Petroleum Hydrocarbons (TPH). The results of the analysis are presented in the table below:

Sample Date 07/02/2015	Total BTEX	Chloride (mg/kg)	GRO C6-C10	DRO >C10-C28
Depth				
AH-1 @Surface	<0.600	2360	109	11600
AH-1 @ 6"	<0.300	2320	<10.0	1250
AH-1 @ 1'	<0.300	208	<10.0	1360
AH-2 @Surface	1.60	1260	214	30000
AH-2 @ 6"	.658	960	41.1	2720
AH-2 @ 1'	<0.300	160	31.1	1210
AH-3 @Surface	<0.600	1790	123	21400
AH-3 @ 1'	<0.300	64.0	<10.0	373
AH-4 @Surface	.785	2040	214	19700
AH-4 @ 1'	<0.300	112	<10.0	785
AH-5 @Surface	<0.600	336	144	11000
AH-5 @ 1'	<0.300	240	14.9	1640

VI. Action Plan

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

Excavate and remove all chloride and TPH contaminated soil to a depth of approximately 1 bgs, whereby the chloride concentration is approximately 5000 mg/kg or less as determined by sampling of sidewalls and bottom of the excavation. SESI is proposing to remove and transport all impacted soils to an approved NMOCD facility for disposal. Composite confirmation samples will be taken from the sides and bottom of the excavation area. The representative soil samples will be taken to a commercial laboratory for final analysis and confirmation. The excavated area will be backfilled with material similar to that removed, returning to grade and esthetically restoring the area. Proper regulatory documentation will be submitted to the NMOCD and BLM respectively.

VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – C-141

Appendix B – Photographs

Appendix C – Analytical Results

**Figure 1
Vicinity Map**



 **Date: 2007-02-16**

 **Date: 2004-08-27**

 **32.1364174,-103.9942322**

© SPOT IMAGE
© 2015 Google

Google earth

 1997

Imagery Date: 10/1/2014 32°09'15.76" N 103°58'08.27" W elev 3033 ft eye alt 45607 ft

**Figure 2
Site Plan**

DEVON COOTER 16 STATE 005H API 30-015-37627

Oil or Gas Well 7

AH-5

Spill Area measuring 8,146.07 Sq. Ft.

AH-2

AH-1

AH-4

AH-3

Tank 10

Tank 9

Tank 11

Tank 14

Tank 12

Tank 15

© SPOT IMAGE
© 2015 Google

Google earth

Appendix A
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 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

NAB 1517443063

OPERATOR Initial Report Final Report

Name of Company Devon Energy Production <i>4137</i>	Contact Dan Suniga
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575.390.5850
Facility Name Cooter 16 State Com 5H	Facility Type Oil

Surface Owner State	Mineral Owner State	API No. 30-015-37627
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LOCATION OF RELEASE

Unit Letter D	Section 16	Township 25S	Range 29E	Feet from the 30	North/South Line FNL	Feet from the 1190	East/West Line FWL	County Eddy
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Latitude: 32.110725 **Longitude:** 103.9877

NATURE OF RELEASE

Type of Release Spill Mixture of produced water & oil	Volume of Release 8 BBL	Volume Recovered 7 BBL
Source of Release A fire tube gasket on heater treater blown out.	Date and Hour of Occurrence 6/16/15 at 10:35 am	Date and Hour of Discovery 6/16/15 10:35 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos BLM Mike Bratcher OCD	
By Whom? Leonard Aguilar	Date and Hour 6/17/15 at 10:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 22 2015
RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
On 6/16/15 at the Cooter 16-5 Battery at 10:35 am A fire tube gasket on heater treater blown out. Devon employee shut supply to the heater and opened the drain to the water tank, and shut in the cottontail 16-1.

Describe Area Affected and Cleanup Action Taken.*
Lease operator inspected the heater treater and found that the gasket around the fire tube (upper left corner) of the gasket approximately 10" long had blown out causing the release of oil and water. The spill was limited to about 8bbl total 4 BBL of oil and 4 BBL of produced water. 2 BBL was in lined containment and 2 BBL recovered, no holes in lined containment. 6 BBL was spilled on pad a 10 X 20 area and 5 BBL was recovered. An environmental company will be called out to evaluate area.

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: <i>Jeanette Barron</i>	OIL CONSERVATION DIVISION	
Printed Name: Jeanette Barron	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Admin Support	Approval Date: 6/23/15	Expiration Date: N/A
E-mail Address: Jeanette.barron@dvn.com	Conditions of Approval:	
Date: 6/19/15 Phone: 575.748.1813	Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 7/24/15 *2RP-3004*

Appendix B Site Photographs

Devon Energy
Devon Cooter 16 State #05H
API 30-015-37875



06-23-15 Signage of Location



06-23-15 Spill area East side of pad



06-23-15 Spill run looking SW



06-23-15 Spill Run Looking East



06-23-15 Western Extent of Spill Run



06-23-15 Spill Run West side of Battery

Appendix C – Analytical Results

July 13, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COOTER 16 ST.5H

Enclosed are the results of analyses for samples received by the laboratory on 07/06/15 8:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_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:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-1 SURFACE (H501708-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.100	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	<0.300	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.600	0.600	07/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	07/08/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	109	10.0	07/07/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	11600	10.0	07/07/2015	ND	183	91.3	200	1.55	

Surrogate: 1-Chlorooctane 125 % 47.2-157
Surrogate: 1-Chlorooctadecane 229 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-1 6 " (H501708-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362		
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23		
Ethylbenzene*	<0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67		
Total Xylenes*	<0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08		
Total BTEX	<0.300	0.300	07/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	07/08/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/07/2015	ND	192	96.0	200	1.65		
DRO >C10-C28	1250	10.0	07/07/2015	ND	183	91.3	200	1.55		

Surrogate: 1-Chlorooctane 86.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Received:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-1 1' (H501708-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362		
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23		
Ethylbenzene*	<0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67		
Total Xylenes*	<0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08		
Total BTEX	<0.300	0.300	07/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/08/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/07/2015	ND	192	96.0	200	1.65		
DRO >C10-C28	1360	10.0	07/07/2015	ND	183	91.3	200	1.55		

Surrogate: 1-Chlorooctane 102 % 47.2-157
Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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Received:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-2 SURFACE (H501708-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	0.149	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	1.45	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	1.60	0.600	07/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	07/08/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	214	50.0	07/07/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	30000	50.0	07/07/2015	ND	183	91.3	200	1.55	

Surrogate: 1-Chlorooctane 136 % 47.2-157

Surrogate: 1-Chlorooctadecane 283 % 52.1-176

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Received:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-2 6" (H501708-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362		
Toluene*	0.113	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23		
Ethylbenzene*	0.089	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67		
Total Xylenes*	0.457	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08		
Total BTEX	0.658	0.300	07/10/2015	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	07/08/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	41.1	10.0	07/08/2015	ND	192	96.0	200	1.65		
DRO >C10-C28	2720	10.0	07/08/2015	ND	183	91.3	200	1.55		

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 132 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Received:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-2 1' (H501708-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	0.280	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	<0.300	0.300	07/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/08/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	31.1	10.0	07/08/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	1210	10.0	07/08/2015	ND	183	91.3	200	1.55	

Surrogate: 1-Chlorooctane 90.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.5 % 52.1-176

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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:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-3 SURFACE (H501708-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362		
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23		
Ethylbenzene*	<0.100	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67		
Total Xylenes*	0.485	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08		
Total BTEX	<0.600	0.600	07/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1790	16.0	07/08/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	123	50.0	07/08/2015	ND	192	96.0	200	1.65		
DRO >C10-C28	21400	50.0	07/08/2015	ND	183	91.3	200	1.55		

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 235 % 52.1-176

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Analytical Results For:

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

Received:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-3 1' (H501708-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362		
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23		
Ethylbenzene*	<0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67		
Total Xylenes*	<0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08		
Total BTEX	<0.300	0.300	07/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/08/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/08/2015	ND	199	99.4	200	6.45		
DRO >C10-C28	373	10.0	07/08/2015	ND	207	104	200	7.40		

Surrogate: 1-Chlorooctane 90.1 % 47.2-157
Surrogate: 1-Chlorooctadecane 99.0 % 52.1-176

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Analytical Results For:

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

Received:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-4 SURFACE (H501708-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362	
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23	
Ethylbenzene*	<0.100	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67	
Total Xylenes*	0.785	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08	
Total BTEX	0.785	0.600	07/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/08/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	214	50.0	07/08/2015	ND	199	99.4	200	6.45	
DRO >C10-C28	19700	50.0	07/08/2015	ND	207	104	200	7.40	

Surrogate: 1-Chlorooctane 144 % 47.2-157

Surrogate: 1-Chlorooctadecane 400 % 52.1-176

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Analytical Results For:

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

Received:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-4 1' (H501708-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362		
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23		
Ethylbenzene*	<0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67		
Total Xylenes*	<0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08		
Total BTEX	<0.300	0.300	07/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/09/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/08/2015	ND	199	99.4	200	6.45		
DRO >C10-C28	785	10.0	07/08/2015	ND	207	104	200	7.40		

Surrogate: 1-Chlorooctane 85.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 66.3 % 52.1-176

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Analytical Results For:

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

Received:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-5 SURFACE (H501708-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/10/2015	ND	2.23	112	2.00	0.362		
Toluene*	<0.100	0.100	07/10/2015	ND	1.94	97.1	2.00	2.23		
Ethylbenzene*	<0.100	0.100	07/10/2015	ND	1.82	90.9	2.00	3.67		
Total Xylenes*	0.493	0.300	07/10/2015	ND	5.39	89.8	6.00	4.08		
Total BTEX	<0.600	0.600	07/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	07/09/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	144	10.0	07/08/2015	ND	199	99.4	200	6.45			
DRO >C10-C28	11000	10.0	07/08/2015	ND	207	104	200	7.40			

Surrogate: 1-Chlorooctane 119 % 47.2-157

Surrogate: 1-Chlorooctadecane 190 % 52.1-176

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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:	07/06/2015	Sampling Date:	07/02/2015
Reported:	07/13/2015	Sampling Type:	Soil
Project Name:	COOTER 16 ST.5H	Sampling Condition:	Cool & Intact
Project Number:	ALF-15-011	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: AH-5 1' (H501708-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2015	ND	2.23	112	2.00	0.362		
Toluene*	<0.050	0.050	07/10/2015	ND	1.94	97.1	2.00	2.23		
Ethylbenzene*	<0.050	0.050	07/10/2015	ND	1.82	90.9	2.00	3.67		
Total Xylenes*	<0.150	0.150	07/10/2015	ND	5.39	89.8	6.00	4.08		
Total BTEX	<0.300	0.300	07/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/09/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	14.9	10.0	07/08/2015	ND	199	99.4	200	6.45		
DRO >C10-C28	1640	10.0	07/08/2015	ND	207	104	200	7.40		

Surrogate: 1-Chlorooctane 91.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.2 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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 SM450Cl-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





ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

P.O. #:

Company: Same

Address:

City:

State:

Zip:

Phone #:

Fax #:

RESERV:

SAMPLING

MATRIX

(G)RAB OR (C)OMP.

#CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE/COOL

OTHER:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	#CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME	ANALYSIS REQUEST
#501708	1 AH-1 SURFACES	Q	1										07/02	1055	X
	2 AH-1 6 inches	Q	1										07/02	1110	X
	3 AH-1 1 FT	Q	1										07/02	1420	X
	4 AH-2 SURFACE	Q	1										07/02	1120	X
	5 AH-2 6 inches	Q	1										07/02	1130	X
	6 AH-2 1 FT	Q	1										07/02	1145	X
	7 AH-3 SURFACE	Q	1										07/02	1215	X
	8 AH-3 1 FT	Q	1										07/02	1230	X
	9 AH-4 SURFACE	Q	1										07/02	1310	X
	10 AH-4 1 FT	Q	1										07/02	1315	X

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Sampler Relinquished By: *Steve Perry* Date: *08/05* Time: *8:36*

Received By: *Judy Barrow* Date: *08/15* Time: *8:36*

Delivered By: (Circle One) UPS Bus Other: *560*

Temp. *560*

Sample Condition: Intact Broken Yes No

Checked By: *JP*

Phone Result: Yes No

Fax Result: Yes No

Additional Phone #: _____

Additional Fax #: _____

REMARKS:

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

#54



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page _____ of _____

ANALYSIS REQUEST

BILL TO

Company Name: Safety & Environmental Solutions, Inc. P.O. #:

Project Manager: Bob Allen Company: Same

Address: 703 East Clinton

City: Hobbs State: NM zip: 88240

Phone #: 575-397-0510 Fax #: 575-393-4388

Project #: ALZ-15-011 Project Owner: ALZ06BDS

Project Name: COOPER 16 ST. 5H

Project Location: CDDU COUNTY

Sampler Name: SOIL Jerry

Lab I.D. Sample I.D.

Matrix: (G)RAB OR (C)OMP. #CONTAINERS

GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

ACID/BASE: ICE / COOL OTHER: DATE TIME

TPH (8015) BTEX CHLORIDES

11 AHS Surpave 9/1 07/02 1400

12 AHS 1st 9/1 07/02 1410

Delivered By: (Circle One) Temp. 560 Sample Condition: Spill Intact Yes No

Sampler - UPS - Bus - Other: 560

Relinquished By: [Signature] Received By: Judy Bruce

Date: 9/15 Time: 8:36

Phone Result: Yes No Add'l Phone #: Add'l Fax #:

REMARKS:

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 collection, including attorney's fees.

#54

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