Sharp Oilfield Services Waste Oil Cleanup Delineation Report and Work Plan Section 4, T23S, R37E Lea County, New Mexico

January 15, 2015



Prepared for:

Sharp Oilfield Services 211 West Main Gainesville, Texas 76241

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
Taylor Allbritton	Sharp Oilfield Services	940-312-3858	tallbritton@sharpoilfieldservices.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Sharp Oilfield Services to perform site assessment of a release area located in Section 4 of Township 23 South, Range 37 East, Lea County, New Mexico.

According to the C-141 the cause of release was truck turnover.

III. Surface and Ground Water

The nearest groundwater of record is approximately 1.0 mile south of the site. The New Mexico Office of State Engineer record is in Section 9 Range 37 East and Township 23 South. The reported depth was 100 feet below ground surface (BGS).

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH).

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

V. Work Performed

On December 29, 2014, Safety & Environmental Solutions, Inc. was onsite to determine vertical extent of contamination. Samples AH-1 and AH-2 was taken at a depth of 1.5', Sample AH-3 was taken at a depth of 2' and sample AH-4 was taken at a depth of 1'. All samples were properly packaged, preserved and transported to the Laboratory, Hobbs New Mexico and analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Total BTEX

and Chloride (Cl⁻) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Sample Date 12/29/2014	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
AH-1 at 1.5'	BTEX 8021B	< 0.050	< 0.050	< 0.050	<0.150	< 0.300
AH-2 at 1.5'	BTEX 8021B	< 0.050	< 0.050	< 0.050	<0.150	< 0.300
AH-3 at 2'	BTEX 8021B	< 0.050	< 0.050	< 0.050	<0.150	< 0.300
AH-4 at 1'	BTEX 8021B	< 0.050	< 0.050	< 0.050	<0.150	< 0.300

Sample Date 05/03/2014	Sample ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	EXT DRO (>C ₂₈ -C ₃₅) (mg/kg)
Depth	Method			
AH-1 at 1.5'	TPH 8015M	<10.0	<10.0	<10.0
AH-2 at 1.5'	TPH 8015M	<10.0	380	120
AH-3 at 2'	TPH 8015M	<10.0	52	<10.0
AH-4 at 1'	TPH 8015M	<10.0	<10.0	<10.0

VI. Action Plan

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

- 1. Excavate 2' remove all contaminated soil transport to an approved NMOCD facility for disposal.
- 2. The excavated area will be backfilled with native soil and returned to natural grade.
- 3. No further action is necessary.

VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Figure 3 – NMOCD Trend Map

Appendix A – Analytical Results

Appendix B - C-141

Figure 1 Vicinity Map

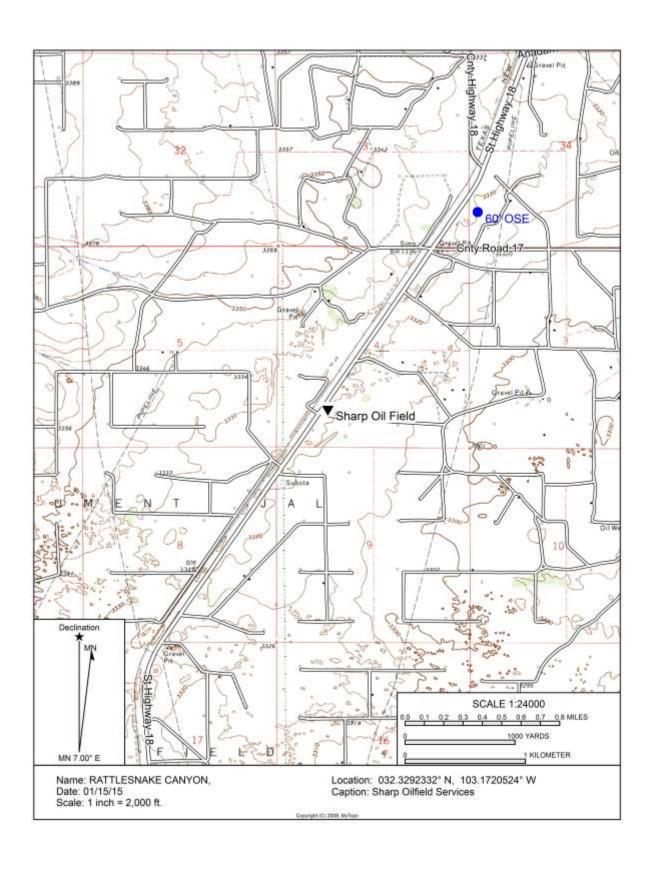


Figure 2 Site Plan



Sharp Oilfield Services

Appendix A Analytical Results



January 05, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: SHARP WASTE OIL CLEAN-UP

Enclosed are the results of analyses for samples received by the laboratory on 12/29/14 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tcea.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tcea.texas.gov/field/ga/lab accredited in a 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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 7



Analytical Results For:

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

 Received:
 12/29/2014

 Reported:
 01/05/2015

 Project Name:
 SHARP WASTE OIL CLEAN-UP

Project Number: SHA-14-001
Project Location: LEA COUNTY, NM

Sampling Date: 12/29/2014 Sampling Type: Soil

Sampling Condition:

Sample Received By:

Cool & Intact Jodi Henson

Sample ID: AH-1 1.5' BGS (H403935-01)

Analyzed By: MS BTEX 8021B Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier <0.050 0.050 12/30/2014 ND 1.83 2.00 6.81 Benzene* Toluene* < 0.050 0.050 12/30/2014 ND 1.83 91.5 2.00 5.49 Ethylbenzene* <0.050 0.050 12/30/2014 ND 1.75 87.3 2.00 4.81 Total Xvlenes* < 0.150 0.150 12/30/2014 ND 5.27 87.9 6.00 5.31 Total BTEX 12/30/2014 < 0.300 0.300 ND

Surrogate: 4-Bromofluorobenzene (PID 97.2 % 66.2-142 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10 <10.0 10.0 12/30/2014 ND 180 90.0 200 2.63 DRO >C10-C28 <10.0 10.0 12/30/2014 ND 93.0 200 9.74 EXT DRO >C28-C35 <10.0 10.0 12/30/2014 ND

 Surrogate: 1-Chlorooctane
 89.8 %
 47.2-157

 Surrogate: 1-Chlorooctadecane
 85.8 %
 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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12/29/2014

Analytical Results For:

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

Received: 12/29/2014 01/05/2015 SHARP WASTE OIL CLEAN-UP Reported: Project Name: Project Number:

SHA-14-001 LEA COUNTY, NM

Sampling Type: Soil Cool & Intact Sampling Condition: Sample Received By: Jodi Henson

Sampling Date:

Sample ID: AH-2 1.5' BGS (H403935-02)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	12/30/2014	ND	1.83	91.3	2.00	6.81	
Toluene*	<0.050	0.050	12/30/2014	ND	1.83	91.5	2.00	5.49	
Ethylbenzene*	<0.050	0.050	12/30/2014	ND	1.75	87.3	2.00	4.81	
Total Xylenes*	< 0.150	0.150	12/30/2014	ND	5.27	87.9	6.00	5.31	
Total BTEX	<0.300	0.300	12/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.75	6 66.2-14	2						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/30/2014	ND	180	90.0	200	2.63	
DRO >C10-C28	380	10.0	12/30/2014	ND	186	93.0	200	9.74	
EXT DRO >C28-C35	120	10.0	12/30/2014	ND					
Surrogate: 1-Chlorooctane	90.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.0	6 52.1-17	ő						

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Analytical Results For:

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

 Received:
 12/29/2014

 Reported:
 01/05/2015

 Project Name:
 SHARP WASTE OIL CLEAN-UP

Project Number: SHA-14-001
Project Location: LEA COUNTY, NM

Sampling Date: 12/29/2014 Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: AH-3 2' BGS (H403935-03)

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	12/30/2014	ND	1.83	91.3	2.00	6.81	
Toluene*	< 0.050	0.050	12/30/2014	ND	1.83	91.5	2.00	5.49	
Ethylbenzene*	< 0.050	0.050	12/30/2014	ND	1.75	87.3	2,00	4.81	
Total Xylenes*	< 0.150	0.150	12/30/2014	ND	5.27	87.9	6.00	5.31	
Total BTEX	< 0.300	0.300	12/30/2014	ND					

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/30/2014	ND	197	98.5	200	1.82	
DRO >C10-C28	52.8	10.0	12/30/2014	ND	231	115	200	0.909	
EXT DRO >C28-C35	<10.0	10.0	12/30/2014	ND					

 Surrogate: 1-Chlorooctane
 85.7 %
 47.2-157

 Surrogate: 1-Chlorooctadecane
 84.9 %
 52.1-176

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12/29/2014

Analytical Results For:

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

12/29/2014 Received: 01/05/2015 Reported: SHARP WASTE OIL CLEAN-UP Project Name: Project Number: SHA-14-001

LEA COUNTY, NM

Sampling Type: Soil Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sampling Date:

Sample ID: AH-4 1' BGS (H403935-04)

Project Location:

GRO C6-C10

DRO >C10-C28

EXT DRO >C28-C35

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2014	ND	1.83	91.3	2.00	6.81	
Toluene*	< 0.050	0.050	12/30/2014	ND	1.83	91.5	2.00	5.49	
Ethylbenzene*	<0.050	0.050	12/30/2014	ND	1.75	87.3	2.00	4.81	
Total Xylenes*	< 0.150	0.150	12/30/2014	ND	5.27	87.9	6.00	5.31	
Total BTEX	<0.300	0.300	12/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.99	6 66.2-14.	2						
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

ND

197

231

98.5

115

200

200

1.82

0,909

12/30/2014

12/30/2014

12/30/2014

Surrogate: 1-Chlorooctane	84.3 %	47.2-157
Surrogate: 1-Chlorooctadecane	83.1 %	52.1-176

<10.0

<10.0

<10.0

10.0

10.0

10.0

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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S. S. Cohil Sampler Name: Lab I.D. Indice #: 575-397-0510 Fax #: 575-393-4388 Addres Folget #: 5HA-14-01 Project Owner: 5HARP 01 Reads Folget Name: 5HARP 01 Reads ddress: roject Manager: Boh Allen ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 993-2326 Fax (505) 393-2476 ompany Name: Safety & Environmental Solutions, Inc. roject Location: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Cardinal cannot accept verbal changes. Please fax written changes to 575-893 4/76 Hobbs Lez Coursing 703 East Clinton Sample I.D. 2022 JUNE State; NM Zip: 88240 5.4% (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER Sample Condition Cool Intact Cool Intact Wes I Yes No No No Hensey SLUDGE Attri Address: Company: OTHER based upon any of the above state ACID/BASE 55 KICE/GOOL B/LL TO Same 12/29 1040 12/29 1130 12/29 1130 Zip: SAMPLING DATE CHAIN-OF-CUSTODY AND ANALYSIS REQUEST (220 (8015) ☐ Yes ☐ No AddTFax#: ANALYSIS REQUEST Page_ Page 7 of 7

Appendix B 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

Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Attached

Form C-141

Release Notification and Corrective Action OPERATOR Name of Company: Sharp Oilfield Services
Address: 211 West Main Paines ville Contact: Tayler Allbritton Telephone No. (940) 312-3858 Texas Facility Name Facility Type: 76241 Surface Owner: Floyd Simms Mineral Owner: Chevron API No. LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line | County Latitude 32.327276745 Longitude 103.172939766 NATURE OF RELEASE Type of Release: Used Oil and lube Volume of Release: 12 BBLS Volume Recovered: 0 Date and Hour of Discovery: 12/27/2014 Source of Release: Truck Rollover Date and Hour of Occurrence: 12/27/2014 11:00 pm Was Immediate Notice Given? If YES, To Whom? ☐ Yes 🖾 No ☐ Not Required By Whom? Date and Hour:

If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Truck Rollover Describe Area Affected and Cleanup Action Taken.* Safety & Environmental Solutions, Inc. will delineate the spill area and submit an appropriate work plan. 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 Thouse Signature: Approved by Environmental Specialist: Printed Name: Taylor Allbritton Title: Regional Manager Approval Date: Expiration Date: E-mail Address: tallbritton@sharpoilfieldservices.com Conditions of Approval:

Attach Additional Sheets If Necessary

Phone: (940) 312-3858

Date: 12-29-2014