

NMOCD Conditions of Approval:

- 1.) Confirmation Samples be taken at bottom of excavation.
- 2.)Horizontal dilatation be achieved.
- 3.) Notify NMOCD Prior to all sampling events.

Gandy Corporation

Nuckols Battery
Delineation Report & Work Plan

Section 24, Township 7S, Range 31E Chaves County, New Mexico

30-005-20736 1-RP-4222

September 9, 2016



Prepared for:

Cross Border Resources 14282 Gillis Rd., Farmers Branch, TX 14282

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
Ross Pearson	Cross Border Resources	469-995-0425	Ross@redmountainresources.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 Red Mountain Resources to assess a spill area on the Nuckols Battery, concerning a One Hundred and Sixty (160) bbl. release comprised of oil and produced water. This site is situated in Chaves County, Section 24, Township 7S, and Range 31E.

According to the C-141: Vandals opened the load line valves on the oil and water tanks allowing all of the contained fluids to impact ground surface. The spill area was mapped, using a Trimble Juno 3B. Whereby, the total area of impact was estimated to be 4,441 sq. ft. The NMOCD and BLM respectively, were notified on March 20, 2016, and the C-141 filed and stamped by the NMOCD on March 24, 2016 assigning this event number **1RP-4222** (Appendix A).

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. Further research of the New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 238' bgs. Thereby, posing no eminent threat or danger to life forms in the area (Appendix B).

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 5,000 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 250 mg/kg (PPM) is also required.

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	Χ
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	Χ
other water sources)		-	
Distance to Surface Water:			
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	
canals and ditches)	>1000 feet	0 points	Χ
RANKING SCORE (TOTAL POINTS)			0

V. Work Performed

On April 11, 2016 SESI personnel together with equipment and personnel from Gandy Corporation were onsite to photograph, assess and map the spill area. The backhoe removed all heavy hydro carbon staining. SESI personnel were present to conduct simultaneous field testing to perform confirmation sampling. Field tests were conducted of the representative soil samples. Approximately 35 yds. Of impacted soil were removed and disposed of at an NMOCD approved facility. The results of field tests are presented in the table below.

	Soil Sample Results: Field Tests	04-11-16
SAMPLE ID	TPH	CHLORIDES
TT-1 @ 6"	06 ppm	156 ppm
TT-1 @ 1.5'	No test	<108 ppm
TT-2 @ 6"	06 ppm	<108 ppm
TT-2 @ 1.5'	No test	<108 ppm

On June 28, 2016 SESI personnel met with Representative Jamie Keyes of the NMOCD, in order to verify any further delineation that should be conducted on this site. Mr. Keyes recommended that sample be taken from the area northwest of the battery.

Based on the request of Mr. Keyes of the NMOCD, SESI personnel returned to the site to install an auger hole to a depth of 1' bgs., slightly to the Northwest of the impacted area (Figure 2). A representative soil sample was taken from the surface and at a depth of 1' bgs., properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM by chain of custody, and analyzed for Chloride (Method SM4500Cl-B). The results are recapped in the following table:

Lab Confirmation	Sample Date 07-01-16
SAMPLE ID	CHLORIDES
AH-1 Surface	<16.0 mg/kg
AH-1 1'	<16.0 mg/kg

On August 19, 2016 SESI personnel revisited the site at the request of Mr. Jamie Keyes with the NMOCD, in order to further delineate spill areas that were not previously identified.

Sixteen (16) additional sample point positions were mapped, identified utilizing the Juno 3B GPS positioning, and flagged. Auger holes were installed and advanced at one foot intervals, and retrieving representative soil samples. The soil samples were properly packaged, preserved, and transported to Cardinal Lab via Chain of Custody. The soil was analyzed for BTEX (Benzene, Toluene, Ethylbenzene, and Total Xylenes) (Method BTEX 8021B), Chlorides (Method SM4500Cl-B), and TPH (Total Petroleum Hydrocarbons), (Method TPH 8051M). Below is a table recapping those results (Appendix C):

	Soil Sample Res	ults: 08-19-16		
SAMPLE ID	TPI	1	BTEX	CHLORIDES
	GRO	DRO		
AH-2 SURFACE	<200	13500	<0.300	<16.0
AH-2 @ 1'	<50.0	742	<0.300	32.0
AH-3 @ 1'	<10.0	65.8	<0.300	192
AH-4 @ SURFACE	<10.0	37.9	<0.300	<16.0
AH-4 @1'	<200	1750	<0.300	<16.0
AH-5 @1'	<10.0	37.4	<0.300	32.0
AH-6 @ SURFACE	<50.0	1930	<0.300	<16.0
AH-6 @ 1'	<10.0	192	>0.300	96.0
AH-7 @ 1'	<10.0	<10.0	<0.300	<16.0
AH-8 @ SURFACE	<10.0	234	<0.300	176
AH-8 @ 1'	>10.0	<10.0	<0.300	<16.0
AH-9 @ 1'	<10.0	<10.0	<0.300	<16.0
AH-10 @ SURFACE	<50.0	1150	<0.300	576
AH-10 @ 1'	<10.0	<10.0	<0.300	144
AH-11 @ 1'	<10.0	2300	<0.300	<16.0
AH-12 @ SURFACE	<10.0	<10.0	<0.300	<16.0
AH-12 @ 1'	<10.0	922	<0.300	128
AH-13 @ 1'	<10.0	648	<0.300	<16.0
AH-14 @ SURFACE	<10.0	44.4	<0.300	<16.0
AH-14 @ 1'	<10.0	4270	<0.300	<16.0
AH-15 @ 1'	<200	310	<0.300	<16.0
AH-16 @ SURFACE	<50.0	1130	<0.300	<16.0
AH-16 @ 1'	<10.0	<10.0	<0.300	<16.0

On September 02, 2016 SESI personnel revisited the site in order to confirm the vertical extent of impact on four (4) of the above sample points. Representative soil samples were properly packaged, preserved and transport to Cardinal Laboratories, and analyzed for BTEX (Benzene, Toluene, Ethylbenzene, and Total Xylenes) (Method BTEX 8021B), Chlorides (Method SM4500Cl-B), and TPH (Total Petroleum Hydrocarbons), (Method TPH 8051M). Below is a table recapping those results (Appendix C):

	Soil Sample	e Results: Field T	ests 09-02-16	
SAMPLE ID	Т	PH	BTEX	CHLORIDES
	GRO	DRO		
AH-2 @ 2.5'	<10	<10.0	<0.300	32.0
AH-4 @ 2.5'	<10	<10.0	<0.300	<16.0
AH-13 @ 3'	<10.0	<10.0	<0.300	<16.0
AH-14 @ 2.5'	<10.0	<10.0	<0.300	<16.0

On September 09, 2016 SESI personnel revisited the site together with personnel from Gandy's with equipment. This was to determine the vertical extent of the impact between sample points 12 and 15. The test trench was advanced to a depth a depth of 7' bgs and 9' respectively where a final confirmation sample was retrieved.

All soil samples were properly packaged, preserved and transported to Cardinal laboratories to be analyzed for BTEX (Benzene, Toluene, Ethylbenzene, and Total Xylenes) (Method BTEX 8021B), Chlorides (Method SM4500Cl-B), and TPH (Total Petroleum Hydrocarbons), (Method TPH 8051M). Below is a table recapping those results (Appendix C):

	Soil Sa	ample Results: 09	9-08-16	
SAMPLE ID	TF	РН	BTEX	CHLORIDES
	GRO	DRO		
SP-17 @ 7'	<10	<10.0	<0.300	32.0
SP-17 @ 9'	<10	<10.0	<0.300	32.0

VI. Action Plan

The NMOCD site ranking requires a 5,000 ppm TPH cleanup, and no BTEX is present in any of the samples taken at this site. Vertical extent of contamination was found at all sample points. Cross Border Resources is proposing to excavated and remove the impacted soil where Chloride levels are >1,000 mg/kg, and TPH levels are >5,000 mg/kg. All impacted soils will be transported to an NMOCD approved facility. Upon completion of remediation activities: all surface areas off of the location area will be re-seeded according New Mexico State Land Office Guidelines. All closure documentation will be drafted and submitted to the proper parties of concern.

VII. Figures & Appendices

Figure 1 - Vicinity Map

Figure 2 - Site Plan

Appendix A - C-141

Appendix B – Groundwater

Appendix C - Analytical Results

Appendix D – Photo Documentation

Figure 1 Vicinity Map

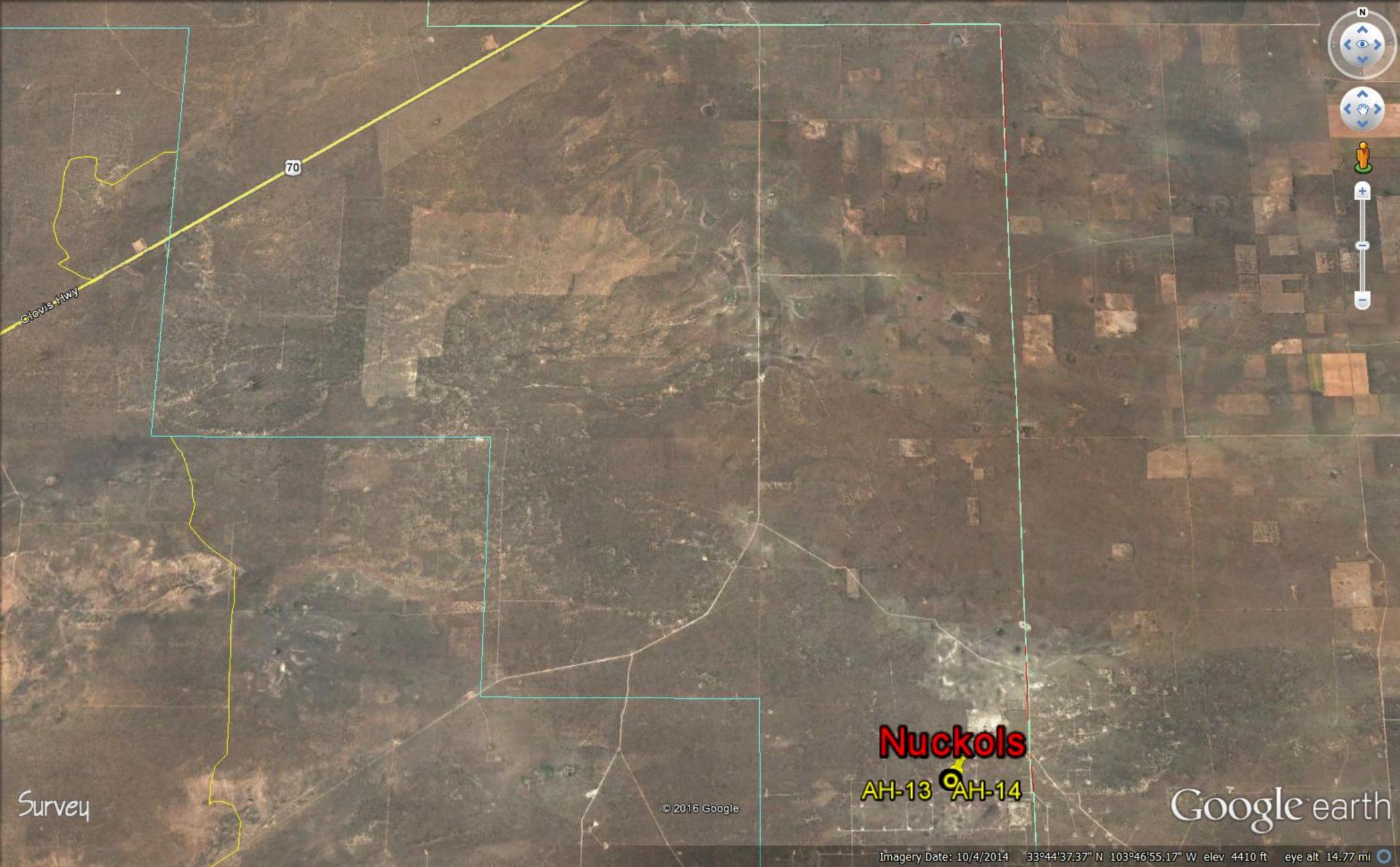
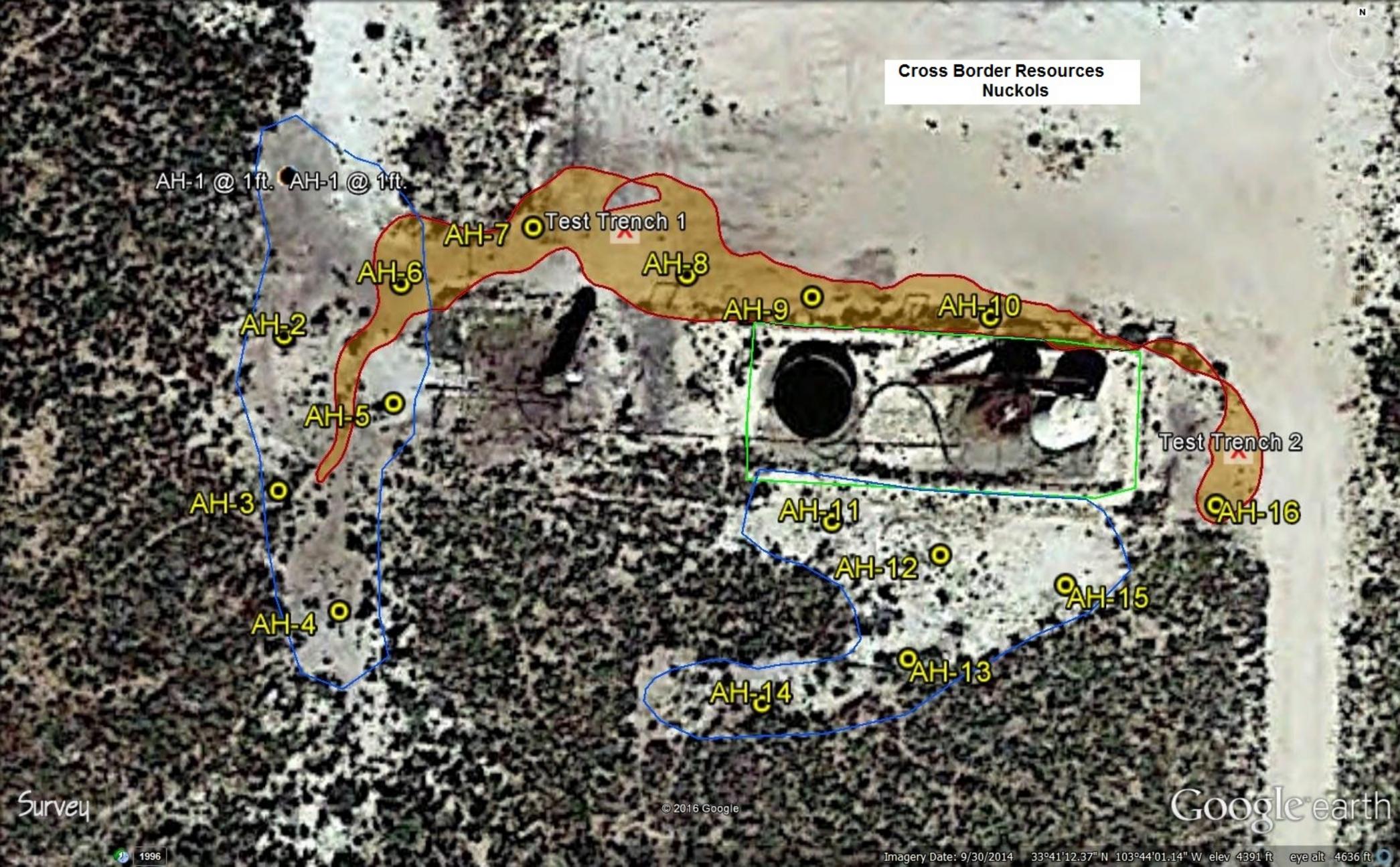


Figure 2 Site Plan



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

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.

			Rele	ease Notific	ation	and Co	rrective A	ction				
						OPERAT	OR		Initia	al Report		Final Report
Name of Co						Contact: Ro						
Address: 14 Facility Nar			rs Branch	, TX, 14282			Io. 469-995-042 e: Tank Battery					
									1			
Surface Own	ner: Jake,	Maureen Ho	wards	Mineral O	wner:	Nuckols et a	<u>ll</u>		API No	. 30-005-2	0736	
						OF REI						
Unit Letter M	Section 24	Township 7-S	Range 31-E	Feet from the 660'		South Line uth	Feet from the 660'		Vest Line Vest	County Chaves		
			L	atitude <u>33°4</u>	1'13	" Longitude	103°44'	<u>j"</u>	•			
				NAT	URE	OF RELI						
Type of Relea			ater				Release: 160 Bb			Recovered: N Hour of Dis		
Source of Rel	ease: Load	lines				3/18/2016,				10:00 am	covery	
Was Immedia	te Notice C		Yes [No □ Not Re	quired		Whom? Baldo V s, NMOCD, Har			ounty Sherif	f	
By Whom? J	oseph Urba	n, Ross Pears	SOII				our 3/19/2016, 11			nd 3/20/201	6, 2:24	· pm
Was a Watero	ourse Reac		Yes 🔀] No		If YES, Vo	lume Impacting t	he Wate	ercourse.			
If a Watercou	rse was Im	nacted. Descr	ibe Fully.*	*				···-				
Describe Area Approximatel	ed the load red. Fluids a Affected a by 35 bbls of	line valves of had soaked in and Cleanup and cleanup and cleanup and cleanup and cleanup are the control of the	n the oil and the gro Action Takes ased from	nd water tanks. A und. Contacted sl	neriff fin	st to establish	a case for the cri	minal a	ctivity.			
				*	1.4.4.41	1	Lucy ladge and w	m đovoto	A that mus	want to NM	000 ==	vlog on 4
regulations al public health should their o	l operators or the envi perations h ment. In a	are required to rooment. The rave failed to addition, NMC	to report and acceptand adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 repo v investigate and r otance of a C-141	elease no ort by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final Re on that pose a thre	tive acti eport" d eat to gr	ons for releases not releases not releases not releases to the country of the cou	eases which leve the oper r, surface wa	may er rator of iter, hu	ndanger Tliability man health
Signature:	Pro.	or fe) Euro				OIL CON	<u>SERV</u>	<u>ATION</u>	DIVISIO	<u>N</u>	
Printed Name	: Ro	or fo	ei (30.	2	4	Approved by	Environmental S	pecialist	:			
Title:	I.P.		atiz			Approval Dat	e: 03/24/2016)	Expiration	Date: 05/24	/2016	
E-mail Addre	ess: ross	@redo	nunta	h resource	r. Con	Conditions of	Approval: imples only. Deli	neate an	d remediat	Attached		
Date: 3/	124/16	4		:469-995-0	125 p	er NMOCD	guidelines.			1RP 42	.22	
Attach Addi	tional She	ets If Necess	sarv									

Appendix B Groundwater



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD										
POD Number	Sub- Code basin County	Q (64 1			Tws	Rng	>	(Y	•	-	Water Column
RA 11245 POD1	СН	3 3	3 1	20	07S	31E	610806	3728777* 🎒	220	180	40
RA 11251 POD1	СН	1 2	2 4	10	07S	31E	615240	3731841* 🎒	210	190	20
RA 11252 POD1	CH	2 4	2	10	07S	31E	615436	3732243* 🎒	210		
RA 11255 POD1	CH	2 4	4	04	07S	31E	613805	3733024* 🎒	450	350	100
RA 11256 POD1	СН	2 4	4	04	07S	31E	613805	3733024*	450	350	100
RA 11260 POD1	СН	1 2	2 3	26	07S	31E	616038	3727739 🌍	158	120	38

Average Depth to Water: 238 feet

Minimum Depth: 120 feet

Maximum Depth: 350 feet

Record Count: 6

PLSS Search:

Township: 07S Range: 31E

Appendix C Analytical Results



July 12, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: GAN-16-002

Enclosed are the results of analyses for samples received by the laboratory on 07/06/16 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/lab accred 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. Keine

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



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/06/2016 Sampling Date: 07/01/2016

Reported: 07/12/2016 Sampling Type: Soil

Project Name: GAN-16-002 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-1 SURFACE (H601505-01)

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

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride <16.0 16.0 07/07/2016 ND 416 104 400 0.00

Sample ID: AH-1 1' (H601505-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2016	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240		ANALYSIS REQUEST
(575) 393-2326 FAX (575) 393-2476	BILL TO	ANALISIO
ompany Name: Safety and Environmental Solution	P.O. #:	
	Company: Same	
1		
State: INIV. Lib.	Address:	
Fax#: 370	City:	
roject #: 490-16-002 Project Owner.	State: Zip:	
roject Name:	Phone #:	
roject Location:	Fax #:	
ampler Name: MATRIX	PRESERV. SAMPLING	
Sample AB OR (C)OMP. ONTAINERS OUNDWATER STEWATER		Cab
# GF	07/01	X
-	19/10	(60)
9	3300	
to the spirit serious and clerit's exclusive remedy for any daim arising whether based in contract or lost, shall be imited to the amount paid by the client for the	neard received by Cardinal within 30 days effer	by the elent for the completion of the applicable
analyses. All claims including those for regligence and any other access from the above stated reasons or chemical service. In no event shall Cardinal be facile for including a damages, including without finitation, business interruptors, was on very service. In no event shall Cardinal be facile for included an of consequential damages, including without finitation, business interruptors, was on very service. In no event shall Cardinal be facile for included an of consequential damages, including without finitation, business interruptors, was on very service. Phone Results affairs or supposessors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or elements. Phone Results affairs or supposessors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or references. Phone Results affairs or supposessors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such daim is based upon any of the above stated reasons or references. Phone Results affairs of the control of the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or references. Phone Results affairs of the performance of services hereunder by Cardinal regardless of whether such daims is based upon any of the above stated reasons or references. Phone Results affairs are required to the performance of services hereunder by Cardinal regardless of whether such daims is based upon any of the above stated reasons or results. Phone Results affairs affairs are required to the performance of services here are required to the performance of services and results are required to the performance of services a	daim is based upon any of the above stated reason	sons or otherwise. Phone Result:
Relinduished By:	Jewson	REMARNS
Delivered By: (Circle One) Sample Condition Cool Intact	ndition CHECKED BY:	

Sampler - UPS - Bus - Other:

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August 30, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-002

Enclosed are the results of analyses for samples received by the laboratory on 08/23/16 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/lab accred 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. Keine

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



Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016 Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-2 SURFACE (H601887-01)

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	13500	200	08/24/2016	ND	217	108	200	4.78	
Surrogate: 1-Chlorooctane	71.1 9	% 35-147	7						

311 % 28-171 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-2 1' (H601887-02)

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	742	50.0	08/24/2016	ND	217	108	200	4.78	
Surrogate: 1-Chlorooctane	111 %	6 35-147	,						

Surrogate: 1-Chlorooctadecane

148 %

28-171

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08/19/2016



Analytical Results For:

Safety & Environmental Solutions Bob Allen

Sampling Date:

703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: AH-3 1' (H601887-03)

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	< 0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	65.8	10.0	08/24/2016	ND	217	108	200	4.78	
Surrogate: 1-Chlorooctane	102	% 35-147	,						
Surrogate: 1-Chlorooctadecane	118	% 28-171	,						

Surrogate: 1-Chlorooctadecane 118 % 28-171

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Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: AH-4 SURFACE (H601887-04)

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	< 0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	37.9	10.0	08/24/2016	ND	217	108	200	4.78	
Surrogate: 1-Chlorooctane	90.4	% 35-147	,						
	0.4.0.4	20.171							

94.0 % 28-171 Surrogate: 1-Chlorooctadecane

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Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: AH-4 1' (H601887-05)

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	1750	200	08/24/2016	ND	217	108	200	4.78	
Surrogate: 1-Chlorooctane	50.6	% 35-147	,						
G I GII I	100.0	20.171							

188 % 28-171 Surrogate: 1-Chlorooctadecane

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08/19/2016



Analytical Results For:

Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date:

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-5 1' (H601887-06)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	37.4	10.0	08/24/2016	ND	217	108	200	4.78	
Surrogate: 1-Chlorooctane	98.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	106 9	% 28-171							

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Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil
Project Name: RMR-16-002 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: NOT GIVEN

Sample ID: AH-6 SURFACE (H601887-07)

BTEX 8021B	mg/kg Analyzed By: MS			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	0.094	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	< 0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	1930	50.0	08/24/2016	ND	237	119	200	0.708	QM-07, QR-03
Surrogate: 1-Chlorooctane	104 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	135 9	6 28-171							

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Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-6 1' (H601887-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	19.2	10.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	105 %	6 35-147	7						
Surrogate: 1-Chlorooctadecane	112 %	6 28-171							

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Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-7 1' (H601887-09)

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	94.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 9	% 28-171							

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Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-8 SURFACE (H601887-10)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	234	10.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	97.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	104 9	% 28-171							

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Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-8 1' (H601887-11)

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	96.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	105 9	% 28-171							

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016

Reported: 08/30/2016

Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016

Sampling Type: Soil

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

Sample ID: AH-9 1' (H601887-12)

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	94.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	105 9	% 28-171							

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Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil
Project Name: RMR-16-002 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Jodi Henson Project Location: NOT GIVEN

Sample ID: AH-10 SURFACE (H601887-13)

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	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/24/2016	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	<50.0	50.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	1150	50.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	83.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	155 %	% 28-171							

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Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 08/23/2016
 Sampling Date:
 08/19/2016

 Reported:
 08/30/2016
 Sampling Type:
 Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-10 1' (H601887-14)

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	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/24/2016	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	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	93.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	103 9	% 28-171							

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08/19/2016



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date:

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: AH-11 1' (H601887-15)

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	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	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	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	2300	10.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	102 %	% 35-147	,						
	1710	20.171							

171 % 28-171 Surrogate: 1-Chlorooctadecane

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Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-12 SURFACE (H601887-16)

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	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	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	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	99.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	105 %	% 28-171							

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703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: AH-12 1' (H601887-17)

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	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	922	10.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	111 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	167	% 28-171							

167 % Surrogate: 1-Chlorooctadecane 28-171

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Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-13 1' (H601887-18)

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	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	217	109	200	0.743	
DRO >C10-C28	648	10.0	08/25/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	106 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	119 9	% 28-171							

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08/19/2016

Cool & Intact



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date:

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: AH-14 SURFACE (H601887-19)

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	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	217	109	200	0.743	
DRO >C10-C28	44.4	10.0	08/25/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	103 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101 9	% 28-171							

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Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-14 1' (H601887-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	217	109	200	0.743	
		10.0	08/25/2016	ND	237	119	200	0.708	

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

232 %

28-171



Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016

Reported: 08/30/2016

Project Name: RMR-16-002 Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 08/19/2016

Sampling Type: Soil

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

Sample ID: AH-15 1' (H601887-21)

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	08/26/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/26/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/26/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/26/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	3110	200	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	54.9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	248 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016 Sampling Date: 08/19/2016

Reported: 08/30/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: AH-16 SURFACE (H601887-22)

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	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/26/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	1130	50.0	08/24/2016	ND	237	119	200	0.708	
Surrogate: 1-Chlorooctane	81.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	165 9	% 28-171							

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 08/23/2016

Reported: 08/30/2016

Project Name: RMR-16-002
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 08/19/2016

Sampling Type: Soil

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

Sample ID: AH-16 1' (H601887-23)

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	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	195	97.5	200	0.460	
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	210	105	200	1.75	
Surrogate: 1-Chlorooctane	83.4 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	86.79	6 28-171							

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Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS OM-07 recovery. ND Analyte NOT DETECTED at or above the reporting limit Relative Percent Difference **RPD** 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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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Safety and Environmental Solutions		BILL TO	-	ANALYSIS	REQUEST	
Address: 703 East Clinton, PO Box 1613		Company: Same			,	
_	Zip: 88240					
Phone #: 575 397-0510 Fax #: 575 3	575 393-4388	Address:				
Project #: GAN 16-803 Project Owner:		City:				
Project Name: RMR-16-002 *		State: Zip:				
Project Location:		Phone #:				
Sampler Name:		Fax #:				
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		2.		
Lab I.D. Sample I.D.		/BASE: COOL	TPH BTEX	hlore		
H601887	# CO GRO WAS SOIL OIL SLU	-	TIME T	75 (
AH-2 1 CF	() X	×	1 1 0200			
SAHS IFT	9 1 K	<u>~</u>	0945/			
4 AAA Surfera	× -	4	1015			
2 At 4 14	6 1	**	(020 /			
6 Att-5 1FF	8	*	(045 /			
Alt-6 Surface	K	8	(055			
& Atto- ITT	- - -x	75	(8			
9 44-7 100	\$ (X	*	(130 ('			
ID AHX Surface	Q (61/KO 3	1122 XX	K		
comings. Comming stanky and cents exclusive tennoly for any those for negligence and any other cause whatewere shall be fulficed for regions and any other cause whatewere shall be for incidental or consequental damages, including words to the performance of services hereunder by Car	claim arising whether based in contract o emed waived unless made in writing and r fithout limitation, business interruptions, los dinal, regardless of whether such daim is	r tort, shall be limited to the amount paid received by Cardinal within 30 days after so of use, or loss of profits incurred by coased upon any of the above stated rea	pplic			
84/23/16	Veccined ph.		Fax Result: Yes	□ No Add'l Fax #:		
10%00	CK OCO	E	REMARKS: 8	9110	for award	
Times: 17	Received By:	MARIA	project.	700		
Delivered By: (Circle One)	Sample Condition	n CHECKED BY:	,	7		

Sampler - UPS - Bus - Other:

(575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240

OLIVERTICAL ENGINEERING MENTAL PROPERTY.	(212) 222-222 1 27 (212) 223-2410			
Company Name:	Safety and Environmental Solutions	olutions	BILL TO	ANALYSIS REQUEST
Project Manager:	r: Bob Allen		P.O. #:	
Address: 7(703 East Clinton, PO Box 1613	0	Company: Same	
City: Ho	Hobbs State: NM	Zip: 88240	Attn:	
Phone #: 575	575 397-0510 Fax #: 575 3	575 393-4388	Address:	
Project #:	Note Oct Project Owner:	0	City:	
Project Name:	Rm2-16-002	8	State: Zip:	
Project Location:		P	Phone #:	
Sampler Name:		TI	Fax#:	20
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING	0.
Lab I.D.	Sample I.D.)RAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER DIL L UDGE THER:	CID/BASE: E / COOL THER :	TPA BIOX Chbria
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12	AH9 (+T	X	\$ (215	
13	At-10 Sofre	5	1230	
7	ANT 10 177	S .	(230) X	
S.	AH-UIA		x \ 1300	
91	AH-12 Super	<i>F</i> .	(320	
17	A14-12 1A	S.	1 1325	
181	AH-13 (FT	(P)	34% X	
191	AH-14 Supra		504/ X	,
70	AH-14 170	K	4 08/19 14(0	886
PLEASE NOTE: Liability and analyses. All daims including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dairn arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable analyses. All dairns including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	claim arising whether based in contract or termed waived unless made in writing and rec	ort, shall be limited to the amount paid by the client for the series by Cardinal within 30 days after completion of the	e applicable
service. In no event shall Ca affiliates or successors arisin	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clernt, its subsidiaries estimated by clernt, its subsidiaries or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ithout limitation, business interruptions, loss final, regardless of whether such claim is be	of use, or loss of profits incurred by client, its subsidiarie sed upon any of the above stated reasons or otherwise.	9, approximate
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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	SUC	BILL TO				ANALYSIS REQUEST	
Project Manager:			P.O. #:			\dashv	- 1	
Address: 7(703 East Clinton, PO Box 1613		Company: Same					
city: Ho	Hobbs State: NM Zip:	88240						
Phone #: 575	575 397-0510 Fax #: 575 393-4388		Address:					
Project #: Grand	N-16-007 Project Owner:		City:					
Project Name:	8m2 - 16 - 002		State: Zip:			-		
Project Location:			Phone #:					
Sampler Name:			Fax #:					
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ING	1	04		
Lab I.D.	Sample I.D.	GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	TPH	BTEX	Chlord		
21		×		X SHI	X	X		
22	AH: 16 Surface G	Υ	4 0×/19	(500 X	6	7		
25	AH-16 157 4	6.	v 08/19	1 505 K		*		
LEASE NOTE: Liability and nailyses. All claims including ervice. In no event shall Catherine are successors existing	LEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be firrited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable review. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	sing whether based in contract or wed unless made in writing and n itation, business interruptions, los	rort, shall be limited to the amount pa eceived by Cardinal within 30 days aft is of use, or loss of profits incurred by	d by the client for the er completion of the applic client, its subsidiaries,	able	-		
Relinquished By	Received By: Date 23 (() Received By: Phone Rest Fax Result:	Received By:		Phone Result: Fax Result:	□ Yes	N N	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Tigogo) (Partie Partie	Con Con	0	REMARKS:				
Act name name	_	ved by:						

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:



September 06, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-002

Enclosed are the results of analyses for samples received by the laboratory on 09/02/16 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/lab accred 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. Keine

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



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

Fax To: (575) 393-4388

Received: 09/02/2016

Reported: 09/06/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN

Sampling Date: 09/02/2016 Sampling Type: Soil

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

Project Location: NOT GIVEN

Sample ID: AH-2 2.5' (H601979-01)

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	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	< 0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	< 0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	
Surrogate: 1-Chlorooctane	97.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	105 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 09/02/2016 Sampling Date: 09/02/2016

Reported: 09/06/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-4 2.5' (H601979-02)

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	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/06/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	
Surrogate: 1-Chlorooctane	93.0	% 35-147	7						
Surrogate: 1-Chlorooctadecane	104 %	6 28-171							

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 09/02/2016 Sampling Date: 09/02/2016

Reported: 09/06/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-13 3' (H601979-03)

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	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9 9	73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	
Surrogate: 1-Chlorooctane	98.5 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	111 %	6 28-171							

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 09/02/2016 Sampling Date: 09/02/2016

Reported: 09/06/2016 Sampling Type: Soil

Project Name: RMR-16-002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: AH-14 2.5' (H601979-04)

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	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEX	<0.300	0.300	09/06/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2016	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	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	
Surrogate: 1-Chlorooctane	103 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	116 %	6 28-171							

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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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(575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240

Company Name: SE	44		BILL TO		ANALYSIS REQUEST	
Project Manager:			P.O. #:			
Address:	*		Company:			
City:	State:	Zip:	Attn:			
Phone #:	Fax #:		Address:			
Project #: RMR-16-002	Project Owner:		City:			
Project Name:			State: Zip:	2		
Project Location:			Phone #:			
Sampler Name:			1	0		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	31		
	Sample ID	WATER		PH TEX		
H601979		(G)RAB C # CONTA GROUND WASTEW SOIL OIL SLUDGE	OTHER: ACID/BAS ICE / COC OTHER:	TIME		
1 At	2 2:5ft		(PO	1250 XXXX		
ません	4 7:514	7	20/102	148 XX		
AIV D	12.54		20/60	(346) X X T		
PLEASE NOTE: Liability and Damages, Ca analyses. All claims including those for negl service. In no event shall Cardinal be liable	PLEASE NOTE: Liability and Damages. Cardinal's liability and clie's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatspever shall be userined waived 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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ny claim arising whether based in contract reemed waived unless made in writing an without limitation, business interruptions,	t or tort, shall be limited to the amount pake d received by Cardinal within 30 days after loss of use, or loss of profits incurred by o	I by the client for the completion of the applicable lient, its subsidiaries,		
Relinquished By:	ed to the performance of services hereunder by C. Date:	Received By:	Phone Result:	Phone Result:	Add'l Phone #: Add'l Fax #:	
1	Time: 50	Man July	tenson		A	
Kellildarshed by	Time:			Kus	X	
Delivered By: (Circle One)			ion CHECKED BY: ()hitials)			
Sampler - UPS - Bus - Other:		3.3° Pres Pres	os W			



September 09, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-002

Enclosed are the results of analyses for samples received by the laboratory on 09/08/16 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/lab accred 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. Keine

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



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

Fax To: (575) 393-4388

Received: 09/08/2016

Reported: 09/09/2016 Project Name: RMR-16-002

NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 09/08/2016

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Angela Cabrera

Sample ID: SP-17 7' (H602027-01)

Project Number:

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	09/09/2016	ND	2.15	107	2.00	2.29	
Toluene*	<0.050	0.050	09/09/2016	ND	2.19	110	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/09/2016	ND	2.12	106	2.00	2.48	
Total Xylenes*	<0.150	0.150	09/09/2016	ND	6.43	107	6.00	2.47	
Total BTEX	<0.300	0.300	09/09/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2016	ND	416	104	400	3.77	
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	09/09/2016	ND	184	92.1	200	17.6	
DRO >C10-C28	<10.0	10.0	09/09/2016	ND	196	97.9	200	18.2	
Surrogate: 1-Chlorooctane	96.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 9	6 28-171							

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Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 09/08/2016
 Sampling Date:
 09/08/2016

 Reported:
 09/09/2016
 Sampling Type:
 Soil

Project Name: RMR-16-002 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Angela Cabrera

Project Location: NOT GIVEN

Sample ID: SP-17 9' (H602027-02)

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	09/09/2016	ND	2.15	107	2.00	2.29	
Toluene*	<0.050	0.050	09/09/2016	ND	2.19	110	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/09/2016	ND	2.12	106	2.00	2.48	
Total Xylenes*	<0.150	0.150	09/09/2016	ND	6.43	107	6.00	2.47	
Total BTEX	<0.300	0.300	09/09/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2016	ND	416	104	400	3.77	
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	09/09/2016	ND	184	92.1	200	17.6	
DRO >C10-C28	<10.0	10.0	09/09/2016	ND	196	97.9	200	18.2	
Surrogate: 1-Chlorooctane	102 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	113 %	6 28-171							

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Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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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Appendix D Site Photos



Sign marking location



Release Point Area



Pasture Impact



Release Point



Impacted area West side of location



Fluid run Southwest pasture area



Spill run impacting pasture



Impacted area west of location



Spill run looking south



Spill traverse west onto lease road



Spill Run North side



Surface Removal of north side



Standing fluid west of pad







Impact inside bermed area



Removal of surface impact



Surface removal



Test Trench



Surface removal at release point



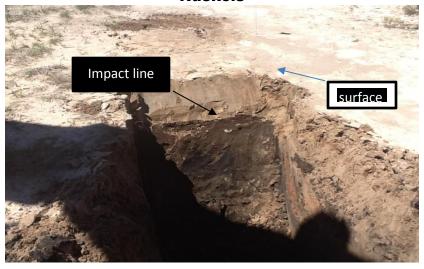
Stockpiled soil



Test Trench



Cross Border Resources Nuckols



Test Trench 9-8-16 @ BH-6



Impacted Soil Demarcation Lines



Cross Border Resources Nuckols



Location of trench in relation to tanks



Depth of Impact

