

Griswold, Jim, EMNRD

From: Alan Barksdale <alan@redmountainresources.com>
Sent: Wednesday, March 14, 2018 8:32 AM
To: Billings, Bradford, EMNRD
Cc: Herrmann, Keith, EMNRD; Griswold, Jim, EMNRD; Yu, Olivia, EMNRD
Subject: Re: Tom 36 Tank Battery 1RP-4221

Mr. Billings:

I will follow up with my internal team and SESI and respond to your email shortly.

Thanks,

Alan W. Barksdale
Red Mountain Resources, Inc.

On Mar 13, 2018, at 4:07 PM, Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us> wrote:

March 13, 2018

To: Cross Border Resources
Alan Barksdale at Red Mountain resources, Inc.

The Oil Conservation Division (OCD) has reviewed the Closure Report dated March 20, 2017 submitted by Safety & Environmental Solutions, Inc. (SESI) for the site identified as Tom 36 Tank Battery (1RP-4221).

The Closure Request is denied at this time for the following:

- 1) OCD is not able to determine in the report proffered the exact locations of the numerous samples within the stated excavation area. A reasonably scaled map detailing the extent of the excavation, including depths of removed soils and sample locations for confirmation data needs to be submitted.
- 2) On a scaled map, please identify depth of liner placement and location thereof.
- 3) Based on supplied photographs, OCD cannot determine depth of liner. No overt scale is included to visually evaluate.

Understanding that some of the "bottom" samples indicate levels above 600 ppm chloride, OCD thanks you for the borehole evaluations indicating a nominal extent vertical of chloride impact has been determined. Albeit, depth to water information is limited.

If there are any questions or comments, please do not hesitate to contact the OCD. Thank you for your efforts.

Sincerely,

Bradford Billings
EMNRD/OCD-Santa Fe

Griswold, Jim, EMNRD

From: Billings, Bradford, EMNRD
Sent: Tuesday, March 13, 2018 4:07 PM
To: alan@redmountainresources.com
Cc: Herrmann, Keith, EMNRD; Griswold, Jim, EMNRD; Yu, Olivia, EMNRD
Subject: Tom 36 Tank Battery 1RP-4221

March 13, 2018

To: Cross Border Resources
Alan Barksdale at Red Mountain resources, Inc.

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Sincerely,

Bradford Billings
EMNRD/OCD-Santa Fe

Cross Border Resources
Tom 36 State Tank Battery

Closure Report
Section 36, Township 7S, Range 31E
Chaves County, New Mexico

March 20, 2017



Prepared for:
Cross Border Resources
14282 Gills Rd.
Farmers Branch, TX 75244

By:

Safety & Environmental Solutions, Inc.
703 E. Clinton Suite 102
Hobbs, New Mexico 88240
(505) 397-0510

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I. Company Contacts

NAME	Company	Telephone	E-mail
Ross Pearson	Red Mountain Resources	469-995-0425	ross@redmountainresources.com
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com

II. Background

SESI was contracted to perform a site investigation to determine the vertical extent of contamination at the Tom 36 State Battery. The subject area is located in Section 36, Township 7S, Range 31E in Chaves County, New Mexico.

III. Surface and Ground Water

The nearest groundwater water of record with the New Mexico State Engineer's Office is in section 26, township 07S and range 31E. The depth to water for this well is 120 feet bgs. However, there is no record of groundwater in the immediate vicinity. The average depth to water for this area is 238' bgs.

IV. Work Performed

On April 11, 2016 SESI personnel, Gandy personnel together with a backhoe and operator were on site to assess the spill area at this location. Heavy hydro carbon staining on the area were present. The fluid had exited the pad area and formed three legs as it exited to the pasture area continuing to traverse. The location and spill area were mapped using a handheld Juno 3B. The spill area measured approximately 6,028.92 sq. ft. A representative soil sample was grabbed at surface where Test Trench 1 was dug. A second soil sample was retrieved and tested at 1' bgs. The results are recapped in the following table:

Date	ID	Cl ⁻	TPH
4-11-16	TT-1 Surface	2096	19
4-11-16	TT-1 @ 1'	9864	

On June 15, 2016 and due to the above results, SESI personnel returned to the site in order to determine vertical extent of impact. Sample Point 1 was advanced to 3' BGS., and vertical impact could not be determined. Representative soil samples were grabbed and field tested for Chloride at 1' intervals. Below is a table recapping those results:

Soil Sample Results: Field Tests 06-15-16	
SAMPLE ID	CHLORIDES
SP1- Surface	1320 ppm
SP1 @ 1'	1330 ppm
SP1 @ 2'	1340 ppm
SP1 @ 3'	1400 ppm

On July 01, 2016 SESI personnel returned to the site in order to advance boreholes in three (3) different locations. The boreholes were advance to depths of 4.5' to 6' BGS. Representative soil samples were retrieved at 2' – 2.5' intervals. The samples were properly packaged, preserved, and delivered via chain of custody to Cardinal Laboratories and analyzed for Chloride (Method SM4500Cl-B). Below is a table recapping those results:

SAMPLE ID	Lab Results CHLORIDES
BH-1 @ 2'	48.0 mg/kg
BH-1 @ 4'	144 mg/kg
BH-1 @ 6' Field Result	360 mg/kg
BH-2 @ 2'	32.0 mg/kg
BH-2 @ 4'	16.0 mg/kg
BH-3 @ 4'	1360 mg/kg
BH-3 @ 4.5' Field Result	872 mg/kg

Mr. Jamie Keyes of the NMOCD requested that further horizontal delineation be conducted. On August 18, 2016, a proposed sampling map was presented to the NMOCD field office for review and approved.

On August 19, 2016 SESI personnel revisited the site, whereby six (6) sample point positions, as well as one borehole position were established utilizing GPS coordinates. Representative soil samples were retrieved at depths of 5' to 14' BGS. The samples were properly packaged, preserved and transported via Chain of Custody to Cardinal Laboratories. 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).

On August 22, 2016, SESI personnel along with personnel and equipment from Custom Welding Backhoe was on site to install test trenches to determine vertical extent of contamination. Using the Juno 3B GPS the location of the test trenches were marked using white pin flags. A test trench install began and labeled BH-6. The trench was installed to the depth of seventeen feet. Soil samples were obtained at different depths and field tested. The test result for the seventeen foot sample was 940 ppm. Another test trench was installed at SP-6 to the depth of fourteen feet with a soil sample test result of 872 ppm.

On August 23, 2016, SESI personnel revisited the site along with personnel and equipment from Custom Welding Backhoe to continue installing test trenches to determine vertical extent of contamination. The backhoe installed test trench at ten feet where vertical extent was met and a returned test result of 250 ppm. SP-4 reached fourteen feet and tested at 1336 ppm. A five foot test trench installed on both SP-3 and SP-2 resulted under 250 ppm. A fourteen foot soil sample on SP-1 was 1748 ppm. Installation of trenches was completed. were properly packaged, preserved and transported via Chain of Custody 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:

Lab Confirmations Sample Date: 08-19-16					
SAMPLE ID	TPH		BTEX	CHLORIDES	Chlorides
	GRO	DRO			Field Results
SP-1 @ 2'					320
SP-1 @ 3'					636
SP-1 @ 5'	<10.0	<10.0	<0.300	704	636
SP-1 @ 7'					2148
SP-1 @ 9'					4484
SP-1 @ 11'					2484
SP-1 @ 14'	<10.0	<10.0	<0.300	2360	1748
SP-2 @ 2'					1748
SP-2 @ 3'	<10.0	<10.0	<0.300	448	488
SP-2 @ 5'	<10.0	<10.0	<0.300	176	184
SP-3 @ 3'	<10.0	<10.0	<0.300	48.0	<124
SP-3 @ 5'	<10.0	<10.0	<0.300	256	212
SP-4 @ 3'					1084
SP-4 @ 5'	<10.0	<10.0	<0.300	1440	1384
SP-4 @ 7'					1484
SP-4 @ 11'					1636
SP-4 @ 14'	<10.0	<10.0	<0.300	1580	1336
SP-5 @ 3'					<124
SP-5 @ 5'	<10.0	<10.0	<0.300	2280	2004
SP-5 @ 7'					3164
SP-5 @ 10'	<10.0	<10.0	<0.300	96	<124
SP-6 @ 3'					320
SP-6 @ 5'	<10.0	<10.0	<0.300	1070	872
SP-6 @ 7'					2148
SP-6 @ 11'					1528
SP-6 @ 14'	<10.0	<10.0	<0.300	1040	872
BH-6 @ 3'					1636
BH-6 @ 5'	<10.0	<10.0	<0.300	4800	5736
BH-6 @ 7'					10,040
BH-6 @ 10'					6216
BH-6 @ 14'	<10.0	<10.0	<0.300	944	940

On September 8, 2016 SESI personnel revisited the site along with personnel and equipment from Gandy Backhoe to install test trenches in previous sample points. The backhoe maxed out at eighteen and a half feet at BH-6. Soil samples were obtained and field tested for Chlorides at fifteen, seventeen, eighteen, and eighteen and a half feet. Vertical extent was not met, whereas, Bob (SESI) advised work to cease after soil sample was obtained. The samples taken at eighteen and a half feet were properly packaged, preserved and transported via Chain of Custody 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:

Lab Confirmations Sample Date: 9-9-16					
SAMPLE ID	TPH		BTEX	CHLORIDES	Chlorides
	GRO	DRO			Field Results
BH-6 @ 15'					448
BH-6 @ 17'					872
BH-6 @ 18'					5900
BH-6 @ 18.5'	<10.0	<10.0	<0.300	1180	3596

On September 27, 2016 SESI personnel revisited the site along with personnel and drilling equipment from Atkins. A Borehole was advanced on SP-4 to a depth of twenty five feet and field tested at twenty and twenty five feet with a result of 250 ppm for Total Petroleum Hydrocarbons (TPH). SP-1 was rigged down to a depth of thirty feet and field testing samples were obtained at twenty, twenty five, and thirty feet. The twenty foot sample was 284 ppm for Chlorides. The twenty five and thirty foot samples were under 250 ppm for Chlorides and less than 250 ppm for Total Petroleum Hydrocarbons (TPH). All samples taken were properly packaged, preserved and transported via Chain of Custody 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:

Lab Confirmations Sample Date: 9-27-16						
SAMPLE ID	TPH		BTEX	CHLORIDES	Chlorides	TPH
	GRO	DRO			Field Results	Field Results
SP-1 @ 20'					284	18
SP-1 @ 25'	<10.0	<10.0	<0.300	144	152	
SP-1 @ 30'	<10.0	<10.0	<0.300	96.0	<124	
SP-4 @ 20'	<10.0	<10.0	<0.300	240	184	18
SP-4 @ 25'	<10.0	<10.0	<0.300	240	184	
SP-6 @ 20'	<10.0	<10.0	<0.300	160	184	24
SP-6 @ 25'	<10.0	<10.0	<0.300	208	184	
BH-6 @ 25'	<10.0	<10.0	<0.300	192	124	48
BH-6 @ 30'	<10.0	<10.0	<0.300	176	<124	

Between December 8, 2016 and January 3, 2017, SESI representatives were onsite with a Gandy dozer, front end loader with operators, and belly dump trucks to remediate the release area. Daily excavation and field testing was performed, as well as hauling off spoils and hauling in back fill material. A liner was also installed. Field testing samples were obtained and results were under the 250 ppm for Chlorides. The excavation and sample points were mapped using the Juno 3B. Photos were taken throughout the excavation process. The samples were properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM by chain of custody, and analyzed for Chlorides (Method SM4500Cl-B). The results are recapped in the following table(s):

Cardinal Lab Confirmations Sample: 12-21-16	
SAMPLE ID	CHLORIDES
SP-1 East Wall	32.0
SP-2 West Wall	80.0
SP-3 West Wall	48.0
SP-4 East Wall	80.0
SP-5 West Wall	80.0
SP-6 East Wall	80.0
SP-7 West Wall	320
SP-8 East Wall	48.0
SP-9 West Wall	48.0
SP-10 East Wall	80.0
SP-11 West Wall	<16.0
SP-12 East Wall	<16.0
SP-13 East Wall	16.0
SP-14 West Wall	32.0
SP-15 Bottom 4ft	3360
SP-16 Bottom 4ft	1090
SP-17 Bottom 4ft	32.0
SP-18 Bottom 4ft	32.0
SP-19 Bottom 4ft	48.0
SP-20 Bottom 4ft	48.0
SP-21 Bottom 4ft	32.0

Cross Border Resources -- Tom Soil Sample Results: Cardinal Laboratories 12-29-16	
SAMPLE ID	CHLORIDES
North Wall #1	48.0
North Wall #2	64.0

Cross Border Resources -- Tom Soil Sample Results: Cardinal Laboratories 12-29-16	
SAMPLE ID	CHLORIDES
SP-22 South Wall	272
SP-23 South Wall	304
SP-24 North Wall	96.0
SP-25 East Wall	112
SP-26 West Wall	48.0
SP-27 East Wall	384
SP-27 East Wall	176
SP-29 West Wall	160
SP-30 North Wall	160
SP-31 Bottom 4ft	912
SP-32 Bottom 4ft	32.0
SP-33 Bottom 4ft	1170
SP-34 Bottom 4ft	48.0

In April 2017, the site was reseeded according to the reseeding plan submitted in the initial Work Plan. (Appendix D).

V. Request for Closure

The results of the confirmation sampling indicate that all soils impacted above 5000 ppm TPH and 1000 ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. The area was backfilled with clean soil and returned to grade.

In late April or May, after spring winds have sub-sided, all surface areas off of the location area will be re-seeded according New Mexico State Land Office Guidelines.

Red Mountain Resources respectfully submits this closure report for your consideration, and requests that no further action be required.

VI. Figures & Appendices

Figure 1 - Vicinity Map
Figure 2 - Site Plan
Appendix A - Analytical Results
Appendix B - Site Photos
Appendix C – Groundwater
Appendix D – Reseed Form

Figure 1

Vicinity Map



Sample Point 10 X
TT-1 X
Release Point 3 X
Release Point 4 X
Tank 5
Tank 5
Tank 6
Tank 7

Test Trench 3 X

© 2016 Google

Google earth

Survey

1996

Imagery Date: 9/30/2014 33°39'52.67" N 103°43'13.55" W elev 4457 ft eye alt 5165 ft

**Figure 2
Site Plan**

Tom State



Survey

© 2016 Google

Google earth

1996

Imagery Date: 9/30/2014 33°39'52.78" N 103°43'13.57" W elev 4458 ft eye alt 5152 ft

Appendix A

Analytical Results



July 12, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: GAN-16-003

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/06/2016	Sampling Date:	07/01/2016
Reported:	07/12/2016	Sampling Type:	Soil
Project Name:	GAN-16-003	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BH-1 2' (H601504-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/07/2016	ND	432	108	400	3.77	

Sample ID: BH-1 4' (H601504-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/07/2016	ND	416	104	400	0.00	

Sample ID: BH-2 2' (H601504-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/07/2016	ND	416	104	400	0.00	

Sample ID: BH-2 4' (H601504-04)

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	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/06/2016
 Reported: 07/12/2016
 Project Name: GAN-16-003
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/01/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: BH-3 4' (H601504-05)
Chloride, SM4500Cl-B
mg/kg
Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	07/07/2016	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

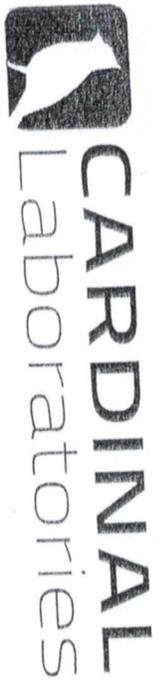
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



700

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

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

Project #: 99-16-003 Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H601504

1 BH-1 2PT
 2 BH-1 4PT
 3 BH-2 2PT
 4 BH-2 4PT
 5 BH-3 4PT

(G)RAB OR (C)OMP.	
# CONTAINERS	
GROUNDWATER	
WASTEWATER	
SOIL	
OIL	
SLUDGE	
OTHER :	
ACID/BASE:	
ICE / COOL	
OTHER :	

DATE	TIME
07/01	1405
07/01	1400
07/01	1445
07/01	1440
07/01	1500

Chlorides

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 the client for the analysis. 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Don Jones

Date: 07/01

Time: 0800

Received By:

Heidi Henderson

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

25.40

Sample Condition
 Cool Yes No
 Intact Yes No

CHECKED BY: *[Signature]*

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

September 06, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-003

Enclosed are the results of analyses for samples received by the laboratory on 08/25/16 9:00.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/25/2016
 Reported: 09/06/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 08/22/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH-6 5' (H601913-01)

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	08/29/2016	ND	2.30	115	2.00	2.94		
Toluene*	<0.050	0.050	08/29/2016	ND	2.35	117	2.00	3.10		
Ethylbenzene*	<0.050	0.050	08/29/2016	ND	2.25	113	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/29/2016	ND	6.83	114	6.00	2.99		
Total BTEX	<0.300	0.300	08/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	08/30/2016	ND	416	104	400	3.92		

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	08/25/2016	ND	182	90.9	200	1.78		
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41		

Surrogate: 1-Chlorooctane 91.4 % 35-147
Surrogate: 1-Chlorooctadecane 106 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/25/2016
 Reported: 09/06/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 08/22/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH-6 14' (H601913-02)

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	08/29/2016	ND	2.30	115	2.00	2.94	
Toluene*	<0.050	0.050	08/29/2016	ND	2.35	117	2.00	3.10	
Ethylbenzene*	<0.050	0.050	08/29/2016	ND	2.25	113	2.00	3.13	
Total Xylenes*	<0.150	0.150	08/29/2016	ND	6.83	114	6.00	2.99	
Total BTEX	<0.300	0.300	08/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	08/30/2016	ND	416	104	400	3.92	

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	08/25/2016	ND	182	90.9	200	1.78	
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41	

Surrogate: 1-Chlorooctane 86.8 % 35-147
Surrogate: 1-Chlorooctadecane 105 % 28-171

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Received:	08/25/2016	Sampling Date:	08/22/2016
Reported:	09/06/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-6 5' (H601913-03)

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	08/29/2016	ND	2.30	115	2.00	2.94		
Toluene*	<0.050	0.050	08/29/2016	ND	2.35	117	2.00	3.10		
Ethylbenzene*	<0.050	0.050	08/29/2016	ND	2.25	113	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/29/2016	ND	6.83	114	6.00	2.99		
Total BTEX	<0.300	0.300	08/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78		
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41		

Surrogate: 1-Chlorooctane 90.0 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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Received:	08/25/2016	Sampling Date:	08/22/2016
Reported:	09/06/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-6 14' (H601913-04)

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	08/29/2016	ND	2.21	110	2.00	0.145		
Toluene*	<0.050	0.050	08/29/2016	ND	2.24	112	2.00	0.139		
Ethylbenzene*	<0.050	0.050	08/29/2016	ND	2.15	108	2.00	0.178		
Total Xylenes*	<0.150	0.150	08/29/2016	ND	6.51	108	6.00	0.0919		
Total BTEX	<0.300	0.300	08/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78		
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41		

Surrogate: 1-Chlorooctane 82.7 % 35-147
Surrogate: 1-Chlorooctadecane 101 % 28-171

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Received:	08/25/2016	Sampling Date:	08/23/2016
Reported:	09/06/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-5 5' (H601913-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2016	ND	2.21	110	2.00	0.145		
Toluene*	<0.050	0.050	08/29/2016	ND	2.24	112	2.00	0.139		
Ethylbenzene*	<0.050	0.050	08/29/2016	ND	2.15	108	2.00	0.178		
Total Xylenes*	<0.150	0.150	08/29/2016	ND	6.51	108	6.00	0.0919		
Total BTEX	<0.300	0.300	08/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78		
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41		

Surrogate: 1-Chlorooctane 90.7 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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 Received: 08/25/2016
 Reported: 09/06/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 08/23/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-5 10' (H601913-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2016	ND	2.21	110	2.00	0.145		
Toluene*	<0.050	0.050	08/29/2016	ND	2.24	112	2.00	0.139		
Ethylbenzene*	<0.050	0.050	08/29/2016	ND	2.15	108	2.00	0.178		
Total Xylenes*	<0.150	0.150	08/29/2016	ND	6.51	108	6.00	0.0919		
Total BTEX	<0.300	0.300	08/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

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	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78		
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41		

Surrogate: 1-Chlorooctane 93.4 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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Received:	08/25/2016	Sampling Date:	08/23/2016
Reported:	09/06/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-4 5' (H601913-07)

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	08/29/2016	ND	2.21	110	2.00	0.145	
Toluene*	<0.050	0.050	08/29/2016	ND	2.24	112	2.00	0.139	
Ethylbenzene*	<0.050	0.050	08/29/2016	ND	2.15	108	2.00	0.178	
Total Xylenes*	<0.150	0.150	08/29/2016	ND	6.51	108	6.00	0.0919	
Total BTEX	<0.300	0.300	08/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78	
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41	

Surrogate: 1-Chlorooctane 92.8 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

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 Fax To: (575) 393-4388

Received:	08/25/2016	Sampling Date:	08/23/2016
Reported:	09/06/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-4 14' (H601913-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2016	ND	2.21	110	2.00	0.145		
Toluene*	<0.050	0.050	08/30/2016	ND	2.24	112	2.00	0.139		
Ethylbenzene*	<0.050	0.050	08/30/2016	ND	2.15	108	2.00	0.178		
Total Xylenes*	<0.150	0.150	08/30/2016	ND	6.51	108	6.00	0.0919		
Total BTEX	<0.300	0.300	08/30/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78		
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41		

Surrogate: 1-Chlorooctane 96.5 % 35-147
Surrogate: 1-Chlorooctadecane 107 % 28-171

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Received:	08/25/2016	Sampling Date:	08/23/2016
Reported:	09/06/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-3 3' (H601913-09)

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	08/30/2016	ND	2.21	110	2.00	0.145		
Toluene*	<0.050	0.050	08/30/2016	ND	2.24	112	2.00	0.139		
Ethylbenzene*	<0.050	0.050	08/30/2016	ND	2.15	108	2.00	0.178		
Total Xylenes*	<0.150	0.150	08/30/2016	ND	6.51	108	6.00	0.0919		
Total BTEX	<0.300	0.300	08/30/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78		
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41		

Surrogate: 1-Chlorooctane 93.9 % 35-147
Surrogate: 1-Chlorooctadecane 112 % 28-171

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 Received: 08/25/2016
 Reported: 09/06/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 08/23/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-3 5' (H601913-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2016	ND	2.21	110	2.00	0.145		
Toluene*	<0.050	0.050	08/30/2016	ND	2.24	112	2.00	0.139		
Ethylbenzene*	<0.050	0.050	08/30/2016	ND	2.15	108	2.00	0.178		
Total Xylenes*	<0.150	0.150	08/30/2016	ND	6.51	108	6.00	0.0919		
Total BTEX	<0.300	0.300	08/30/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78		
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41		

Surrogate: 1-Chlorooctane 99.7 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/25/2016
 Reported: 09/06/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 08/23/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-2 3' (H601913-11)

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	08/30/2016	ND	2.21	110	2.00	0.145	
Toluene*	<0.050	0.050	08/30/2016	ND	2.24	112	2.00	0.139	
Ethylbenzene*	<0.050	0.050	08/30/2016	ND	2.15	108	2.00	0.178	
Total Xylenes*	<0.150	0.150	08/30/2016	ND	6.51	108	6.00	0.0919	
Total BTEX	<0.300	0.300	08/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78	
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/25/2016	Sampling Date:	08/23/2016
Reported:	09/06/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-2 5' (H601913-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2016	ND	2.21	110	2.00	0.145	
Toluene*	<0.050	0.050	08/30/2016	ND	2.24	112	2.00	0.139	
Ethylbenzene*	<0.050	0.050	08/30/2016	ND	2.15	108	2.00	0.178	
Total Xylenes*	<0.150	0.150	08/30/2016	ND	6.51	108	6.00	0.0919	
Total BTEX	<0.300	0.300	08/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/30/2016	ND	432	108	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	08/25/2016	ND	182	90.9	200	1.78	
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	195	97.5	200	1.41	

Surrogate: 1-Chlorooctane 98.8 % 35-147
Surrogate: 1-Chlorooctadecane 113 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/25/2016
 Reported: 09/06/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 08/23/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-1 5' (H601913-13)

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	08/30/2016	ND	2.21	110	2.00	0.145		
Toluene*	<0.050	0.050	08/30/2016	ND	2.24	112	2.00	0.139		
Ethylbenzene*	<0.050	0.050	08/30/2016	ND	2.15	108	2.00	0.178		
Total Xylenes*	<0.150	0.150	08/30/2016	ND	6.51	108	6.00	0.0919		
Total BTEX	<0.300	0.300	08/30/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	08/30/2016	ND	432	108	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	08/26/2016	ND	182	90.9	200	1.78		
DRO >C10-C28	<10.0	10.0	08/26/2016	ND	195	97.5	200	1.41		

Surrogate: 1-Chlorooctane 91.4 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/25/2016
 Reported: 09/06/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 08/23/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-1 14' (H601913-14)

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	08/30/2016	ND	2.21	110	2.00	0.145	
Toluene*	<0.050	0.050	08/30/2016	ND	2.24	112	2.00	0.139	
Ethylbenzene*	<0.050	0.050	08/30/2016	ND	2.15	108	2.00	0.178	
Total Xylenes*	<0.150	0.150	08/30/2016	ND	6.51	108	6.00	0.0919	
Total BTEX	<0.300	0.300	08/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	08/30/2016	ND	432	108	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	08/26/2016	ND	182	90.9	200	1.78	
DRO >C10-C28	<10.0	10.0	08/26/2016	ND	195	97.5	200	1.41	

Surrogate: 1-Chlorooctane 88.3 % 35-147
Surrogate: 1-Chlorooctadecane 109 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

P.O. #: _____

Company: Same

Attn: _____

Address: _____

City: _____

State: _____ Zip: _____

Phone #: _____

Fax #: _____

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

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

Project #: ~~CAF-16-003~~ Project Owner: RMR-16-003

Project Name: _____

Project Location: _____

Sampler Name: _____

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
11601913	BH-6	5GT	1	X	X	X	X	X	08/22	1000	X	X	X	
	BH-6	14GT	1	X	X	X	X	X	08/22	1200	X	X	X	
	SP-6	5GT	1	X	X	X	X	X	08/22	1430	X	X	X	
	SP-6	14GT	1	X	X	X	X	X	08/22	1550	X	X	X	
	SP-5	5GT	1	X	X	X	X	X	08/23	0920	X	X	X	
	SP-4	10GT	1	X	X	X	X	X	08/23	0945	X	X	X	
	SP-4	5GT	1	X	X	X	X	X	08/23	1020	X	X	X	
	SP-3	14GT	1	X	X	X	X	X	08/23	1135	X	X	X	
	SP-3	3GT	1	X	X	X	X	X	08/23	1150	X	X	X	

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Reinquired By: _____ Date: 8/25/16
Received By: _____

Reinquired By: _____ Date: 8/25/16
Received By: _____

Delivered By: (Circle One) UPS Bus Other: _____
Time: 9:00
Sample Condition: Cool Intact Yes No

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

REMARKS: 9/6/18: Rebecca changed project name. *HA*



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs

Phone #: 575 397-0510

Project #: GAN-16-003

Project Name: RMR-16-003

Project Location:

Sampler Name:

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: Same

Attn:

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H001913	SP-2	3	5			X			08/23	1305	TPH	
	SP-2	5	5			X			08/23	1320	BTEX	
	SP-1	5	5			X			08/23	1405	Chlorides	
	SP-1	14	14			X			08/23	1455		

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Relinquished By: [Signature] Date: 8/25/16 Received By: [Signature] Date: 8/25/16

Relinquished By: [Signature] Date: 8/25/16 Received By: [Signature] Date: 8/25/16

Delivered By: (Circle One) UPS 5:20 II

Sampler - UPS - Bus - Other: 5:20 II

September 09, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-003

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/08/2016	Sampling Date:	09/08/2016
Reported:	09/09/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	** (See Notes)
Project Number:	RMR-16-003	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: BH-6 18.5' (H602028-01)

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	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) 97.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	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 103 % 35-147
Surrogate: 1-Chlorooctadecane 120 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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





October 04, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-003

Enclosed are the results of analyses for samples received by the laboratory on 09/29/16 8:10.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/29/2016
 Reported: 10/04/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 09/27/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-6 20' (H602183-01)

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	09/30/2016	ND	2.30	115	2.00	0.238	
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296	
Total BTEX	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/02/2016	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	10/01/2016	ND	187	93.3	200	14.1	
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3	

Surrogate: 1-Chlorooctane 110 % 35-147
Surrogate: 1-Chlorooctadecane 120 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/29/2016	Sampling Date:	09/27/2016
Reported:	10/04/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-6 25' (H602183-02)

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	09/30/2016	ND	2.30	115	2.00	0.238		
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895		
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296		
Total BTEX	<0.300	0.300	09/30/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/02/2016	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	10/01/2016	ND	187	93.3	200	14.1		
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3		

Surrogate: 1-Chlorooctane 94.9 % 35-147

Surrogate: 1-Chlorooctadecane 96.6 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/29/2016
 Reported: 10/04/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 09/27/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH-6 25' (H602183-03)

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	09/30/2016	ND	2.30	115	2.00	0.238	
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296	
Total BTEX	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/02/2016	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	10/01/2016	ND	187	93.3	200	14.1	
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/29/2016	Sampling Date:	09/27/2016
Reported:	10/04/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: BH-6 30' (H602183-04)

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	09/30/2016	ND	2.30	115	2.00	0.238	
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296	
Total BTEX	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/02/2016	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	10/01/2016	ND	187	93.3	200	14.1	
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/29/2016	Sampling Date:	09/28/2016
Reported:	10/04/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-4 20' (H602183-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2016	ND	2.30	115	2.00	0.238		
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895		
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296		
Total BTEX	<0.300	0.300	09/30/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/02/2016	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	10/01/2016	ND	187	93.3	200	14.1		
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3		

Surrogate: 1-Chlorooctane 97.8 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/29/2016	Sampling Date:	09/28/2016
Reported:	10/04/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-4 25' (H602183-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2016	ND	2.30	115	2.00	0.238		
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895		
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296		
Total BTEX	<0.300	0.300	09/30/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/02/2016	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	10/01/2016	ND	187	93.3	200	14.1		
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3		

Surrogate: 1-Chlorooctane 86.5 % 35-147

Surrogate: 1-Chlorooctadecane 82.3 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/29/2016
 Reported: 10/04/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 09/28/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-1 25' (H602183-07)

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	09/30/2016	ND	2.30	115	2.00	0.238	
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296	
Total BTEX	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/02/2016	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	10/01/2016	ND	187	93.3	200	14.1	
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/29/2016	Sampling Date:	09/28/2016
Reported:	10/04/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	Cool & Intact
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-1 30' (H602183-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2016	ND	2.30	115	2.00	0.238		
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895		
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296		
Total BTEX	<0.300	0.300	09/30/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.6-140

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	10/02/2016	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	10/01/2016	ND	187	93.3	200	14.1		
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3		

Surrogate: 1-Chlorooctane 92.6 % 35-147

Surrogate: 1-Chlorooctadecane 98.6 % 28-171

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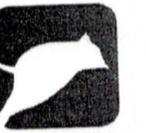
Celey D. Keene, Lab Director/Quality Manager

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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions
Project Manager: Bob Allen
Address: 703 East Clinton, PO Box 1613
City: Hobbs
Phone #: 575 397-0510
Project #: PWR-16-003

State: NM Zip: 88240
Attn: Company: Same
Address: Hobbs
City: Hobbs
State: NM Zip: 88240

Project Owner: PWR-16-003
Project Name:
Project Location:
P.O. #: Company: Same
Address: Hobbs
City: Hobbs
State: NM Zip: 88240

Project Name:
Project Location:
P.O. #: Company: Same
Address: Hobbs
City: Hobbs
State: NM Zip: 88240

Project Name:
Project Location:
P.O. #: Company: Same
Address: Hobbs
City: Hobbs
State: NM Zip: 88240

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Project Location:
P.O. #: Company: Same
Address: Hobbs
City: Hobbs
State: NM Zip: 88240

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Project Location:
P.O. #: Company: Same
Address: Hobbs
City: Hobbs
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Project Location:
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Address: Hobbs
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City: Hobbs
State: NM Zip: 88240

Project Name:
Project Location:
P.O. #: Company: Same
Address: Hobbs
City: Hobbs
State: NM Zip: 88240

Project Name:
Project Location:
P.O. #: Company: Same
Address: Hobbs
City: Hobbs
State: NM Zip: 88240

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H16021413	SP-6	20 FT	1						09/27	1415	X	X	X	
	SP-6	25 FT	1						09/27	1500	X	X	X	
	BH-6	25 FT	1						09/27	1730	X	X	X	
	BH-6	30 FT	1						09/27	1810	X	X	X	
	SP-4	20 FT	1						09/28	1100	X	X	X	
	SP-4	25 FT	1						09/28	1130	X	X	X	
	SP-4	25 FT	1						09/28	1400	X	X	X	
	SP-1	30 FT	1						09/28	1440	X	X	X	

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Relinquished By: *[Signature]* Date: 9/29/16
Received By: *[Signature]* Date: 9/29/16

Delivered By: (Circle One) UPS Bus Other: 4.48

Sample Condition: Cool Intact Yes No

Checked By: *[Signature]*

REMARKS:



December 27, 2016

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

RE: RMR-16-003

Enclosed are the results of analyses for samples received by the laboratory on 12/20/16 8:10.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/20/2016	Sampling Date:	12/09/2016
Reported:	12/27/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	** (See Notes)
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-1 EAST WALL (H602831-01)

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	12/21/2016	ND	400	100	400	3.92	

Sample ID: SP-2 WEST WALL (H602831-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/21/2016	ND	400	100	400	3.92	

Sample ID: SP-3 WEST WALL (H602831-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/21/2016	ND	400	100	400	3.92	

Sample ID: SP-4 EAST WALL (H602831-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/21/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/20/2016	Sampling Date:	12/13/2016
Reported:	12/27/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	** (See Notes)
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-5 WEST WALL (H602831-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/21/2016	ND	400	100	400	3.92	

Sample ID: SP-6 EAST WALL (H602831-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/21/2016	ND	400	100	400	3.92	

Sample ID: SP-7 WEST WALL (H602831-07)

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	12/21/2016	ND	400	100	400	3.92	

Sample ID: SP-8 EAST WALL (H602831-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/21/2016	ND	400	100	400	3.92	

Sample ID: SP-9 WEST WALL (H602831-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/21/2016	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/20/2016	Sampling Date:	12/13/2016
Reported:	12/27/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	** (See Notes)
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-10 EAST WALL (H602831-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/21/2016	ND	400	100	400	3.92	

Sample ID: SP-11 WEST WALL (H602831-11)

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	12/21/2016	ND	400	100	400	3.92	

Sample ID: SP-12 EAST WALL (H602831-12)

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	12/27/2016	ND	400	100	400	0.00	

Sample ID: SP-13 EAST WALL (H602831-13)

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	12/27/2016	ND	400	100	400	0.00	

Sample ID: SP-14 WEST WALL (H602831-14)

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	12/27/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/20/2016	Sampling Date:	12/14/2016
Reported:	12/27/2016	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	** (See Notes)
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-15 BOTTOM 4' (H602831-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	12/27/2016	ND	400	100	400	0.00	

Sample ID: SP-16 BOTTOM 4' (H602831-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	12/27/2016	ND	400	100	400	0.00	

Sample ID: SP-17 BOTTOM 4' (H602831-17)

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	12/27/2016	ND	400	100	400	0.00	

Sample ID: SP-18 BOTTOM 4' (H602831-18)

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	12/27/2016	ND	400	100	400	0.00	

Sample ID: SP-19 BOTTOM 4' (H602831-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/27/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/20/2016
 Reported: 12/27/2016
 Project Name: RMR-16-003
 Project Number: RMR-16-003
 Project Location: NONE GIVEN

 Sampling Date: 12/15/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP-20 BOTTOM 4' (H602831-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/27/2016	ND	400	100	400	0.00	

Sample ID: SP-21 BOTTOM 4' (H602831-21)

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	12/27/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions
Project Manager: Bob Allen
Address: 703 East Clinton, PO Box 1613
City: Hobbs State: NM Zip: 88240
Phone #: 575 397-0510 Fax #: 575 393-4388
Project #: RMR-16-003 Project Owner:
Project Name:
Project Location:
Sampler Name:
FOR LAB USE ONLY

P.O. #: Company: Same
Attn: Address:
City: State: Zip:
Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
11	SP-11 WESTWALL		1							12/14	1100	
12	SP-12 EASTWALL		1							12/14	1115	
13	SP-13 EASTWALL		1							12/14	1455	
14	SP-14 WESTWALL		1							12/14	1515	
15	SP-15 BOTTOM		1							12/14	1400	
16	SP-16 BOTTOM		1							12/14	1445	
17	SP-17 BOTTOM		1							12/14	1435	
18	SP-18 BOTTOM		1							12/15	1330	
19	SP-19 BOTTOM		1							12/15	1350	
20	SP-20 BOTTOM		1							12/15	1415	

Ch. Brucher

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Relinquished By: *David Martin* Date: *12/20/16* Received By: *David Martin*
 Date: *8/20/00*
 Relinquished By: *David Martin* Date: *8/10/16* Received By: *David Martin*
 Delivered By: (Circle One) *UPS* *1P* #75
 Sampler - UPS - Bus - Other: *UPS*
 Sample Condition: Cool Intact
 Checked By: *David Martin*
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions
Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

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

Project #: RWR-16-003 Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

HL02831
21 SP-21 Barrow dx

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE TIME
12/15 1430

Ch. Bonds

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Relinquished By: *Carol Martin*

Received By: *Carol Martin*

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

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: #75

Sample Condition
Cool Intact
 Yes No

CHECKED BY: *[Signature]*

REMARKS:



January 04, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-003

Enclosed are the results of analyses for samples received by the laboratory on 12/29/16 8:25.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/29/2016	Sampling Date:	12/27/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	** (See Notes)
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: NORTH WALL #1 (H602880-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/30/2016	ND	416	104	400	0.00	

Sample ID: NORTH WALL #2 (H602880-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/30/2016	ND	416	104	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions
 Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613
 City: Hobbs State: NM Zip: 88240

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

Project #: RME-16-003
 Project Owner:

Project Location: Robert Martinez Jr

Sampler Name: Robert Martinez Jr

FOR LAB USE ONLY

Lab I.D. Sample I.D.

HL002880

1 North wall #1
 2 North wall #2

(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :
G	1			1						
G	1			1						

DATE	TIME
12-27-16	1200
12-27-16	1250

Clorides

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Relinquished By: [Signature]

Received By: [Signature]

Relinquished By: [Signature]

Date: 12-29-16
 Time: 8:10

Received By: [Signature]

Delivered By: (Circle One) [Signature]

Date: 12-29-16
 Time: 8:25

Received By: [Signature]

Sampler - UPS - Bus - Other: [Signature]

14:30

Sample Condition
 Cool Intact
 Yes No

CHECKED BY: [Signature]

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



January 04, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-003

Enclosed are the results of analyses for samples received by the laboratory on 12/29/16 8:25.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/29/2016	Sampling Date:	12/28/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	** (See Notes)
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-22 SOUTH WALL (H602881-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/30/2016	ND	416	104	400	0.00	

Sample ID: SP-23 SOUTH WALL (H602881-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/30/2016	ND	416	104	400	0.00	

Sample ID: SP-24 NORTH WALL (H602881-03)

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	12/30/2016	ND	416	104	400	0.00	

Sample ID: SP-25 NORTH WALL (H602881-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/30/2016	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/29/2016	Sampling Date:	12/28/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	** (See Notes)
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-26 WEST WALL (H602881-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/30/2016	ND	416	104	400	0.00	

Sample ID: SP-27 EAST WALL (H602881-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/30/2016	ND	416	104	400	0.00	

Sample ID: SP-28 EAST WALL (H602881-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/30/2016	ND	416	104	400	0.00	

Sample ID: SP-29 WEST WALL (H602881-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/30/2016	ND	400	100	400	3.92	

Sample ID: SP-30 NORTH WALL (H602881-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/30/2016	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	12/29/2016	Sampling Date:	12/28/2016
Reported:	01/04/2017	Sampling Type:	Soil
Project Name:	RMR-16-003	Sampling Condition:	** (See Notes)
Project Number:	RMR-16-003	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP-31 BOTTOM 4' (H602881-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	12/30/2016	ND	400	100	400	3.92	

Sample ID: SP-32 BOTTOM 4' (H602881-11)

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	12/30/2016	ND	400	100	400	3.92	

Sample ID: SP-33 BOTTOM 4' (H602881-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	12/30/2016	ND	400	100	400	3.92	

Sample ID: SP-34 BOTTOM 4' (H602881-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/30/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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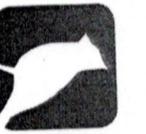
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

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

Project #: RMR-16-003 Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

ABD2881

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :		
1	SR-22 South well								12/28	1000	
2	SR-23 South well								12/28	1015	
3	SR-24 North well								12/28	1030	
4	SR-25 North well								12/28	1055	
5	SR-26 West well								12/28	1130	
6	SR-27 East well								12/28	1200	
7	SR-28 East well								12/28	1400	
8	SR-29 West well								12/28	1430	
9	SR-30 North well								12/28	1500	
10	SR-31 Pattern off								12/28	1510	

Chlorides

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Relinquished By:

SSM

Date: 12/21/16 Time: 8:00

Received By:

Mara Martin

Phone Result: Yes No

Fax Result: Yes No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Mara Martin

Date: 12/21/16 Time: 8:25

Received By:

Spaci Bender

Phone Result: Yes No

Fax Result: Yes No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

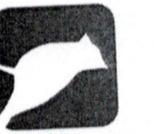
#75

15.12

Sample Condition: Cool Intact

Checked By: (Initials)

Spaci Bender



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions
Project Manager: Bob Allen
Address: 703 East Clinton, PO Box 1613
City: Hobbs State: NM Zip: 88240
Phone #: 575 397-0510 Fax #: 575 393-4388
Project #: AWR-16-003 Project Owner:
Project Name:
Project Location:

P.O. #: _____
Company: Same
Attn: _____
Address: _____
City: _____
State: _____ Zip: _____
Phone #: _____
Fax #: _____

Sampler Name:
FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	INITIALS
<u>HL02881</u>															
11	SP-32 Bottom	4	9			X							12/28	1515	XXX
12	SP-33 Bottom	4	9			X							12/28	1520	
13	SP-34 Bottom	4	9			X							12/28	1525	

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Relinquished By: Sen Jim
Date: 12/28/16
Time: 0800

Received By: Para Martin

Relinquished By: Para Martin

Received By: Speci Herrera

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: #75 15.10

Sample Condition
Cool Intact
Yes No

CHECKED BY: [Signature]
(Initials)

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

Appendix B

Site Photos

**Red Mountain Resources
Tom 36 State Battery Location**



Sign marking location



Release Point



Release Point Area



Spill Run Looking East



Spill exiting pad South side



Fluid Run Southwest

**Red Mountain Resources
Tom 36 State Battery Location**



Spill run looking north to treater



Impacted area South side



Spill run West of tanks



Spill traverse north onto pad area



Spill Run onto pasture area



Spill run traversing south through pasture

**Red Mountain Resources
Tom 36 State Battery Location**



Standing fluid west of pad



**Red Mountain Resources
Tom 36 State Battery Location**



Pasture Impact looking south



Pasture impact south of location

**Red Mountain Resources
Tom 36 State Tank Battery**



Test Trench 9-8-16 @ BH-6



Impacted Soil



Backhoe reaches capacity at 18.5' bgs

**Red Mountain Resources
Tom 36 State Tank Battery**



Backhoe Reaching Extent



Backfilled Test Trench Area to Grade



Drill Site Location 9-27-16

**Red Mountain Resources
Tom 36 State Tank Battery**



Atkins Drill Rig



Retrieving Soil Bore

**Red Mountain Resources
Tom 36 State Battery Location
South Excavation 12-15-16**



**Red Mountain Resources
Tom 36 State Battery Location
South Excavation 12-15-16**



**Red Mountain Resources
Tom 36 State Battery Location
South Excavation 12-15-16**



**Red Mountain Resources
Tom 36 State Battery Location
South Excavation 12-15-16**



**Red Mountain Resources
Tom 36 State Battery Location
South Excavation 12-15-16**



**Red Mountain Resources
Tom 36 State Battery Location
South Excavation 12-15-16**



Tom 36 State Tank Battery

Photo Page: Back Fill



Photo Page: Back Fill-Bottom



Photo Page: Liner Installation



Photo Page: Liner Installation



TOM 36 State Tank Battery

Photo Page

Southside Release-Back Filled



Appendix D
ReSeed Form

PECOS DISTRICT, BLM
SEED MIX FOR:

The following Soils or Soil associations may represent these ecological sites:

Amarillo fine sandy loam
Arvana fine sandy loam
Blakeney
Douro
Faskin
Gomez fine sandy loam
Clovis fine sandy loam
Sharvana fine sandy loam

Ecological Site: Sandy HP-3
Shallow Sand CP-2
April 4, 2006

<u>Common Name and Preferred Variety</u>	<u>Scientific Name</u>	<u>Pounds of Pure Live Seed Per Acre</u>
Blue grama, var. Lovington	<i>(Bouteloua gracilis)</i>	2.0
Sideoats grama var. Vaughn or El Reno	<i>(Bouteloua curtipendula)</i>	3.0
Little bluestem	<i>(Schizachyrium scoparium)</i>	0.5
Sand dropseed	<i>(Sporobolus cryptandrus)</i>	1.0
Plains bristlegrass	<i>(Setaria macrostachya)</i>	1.0
Indian blanketflower	<i>(Gaillardia aristata)</i>	0.5
Desert or Scarlet Globemallow	<i>(Sphaeralcea ambigua or S. coccinea)</i>	1.0
TOTAL POUNDS PURE LIVE SEED (pls) PER ACRE Certified Weed Free Seed		9.0

IF ONE SPECIES IS NOT AVAILABLE,
INCREASE ALL OTHERS PROPORTIONATELY
No less than four (4) species, including one (1) forb
No less than 9.0 pounds pls per acre shall be applied

APPROVED: /s/ Douglas J. Burger
District Manager, Pecos District

REVEGETATION AND NOXIOUS WEED MANAGEMENT PLAN

All disturbed areas were reseeded with the seed mixture listed below. The seed mixture was planted in the amounts specified in pounds of pure live seed per acre. The seed contains no primary or secondary noxious weeds. The seed was Certified Weed Free Seed. The seed mixture was evenly and uniformly planted over the disturbed area by hand. The area was disked and raked to cover the seed.

Seed Mixture:

Seed Type Description & Lot Code	Quantity
Blue Grama, Lovington – 19558	5 PLS-lbs
Sideoats Grama, El Reno – 18536	7.5 PLS-lbs
Little Bluestem, Cimarron – 19480	1.25 PLS-lbs
Sand Dropseed, Not Stated – 19557	2.50 PLS-lbs
Plains Bristlegrass, Not Stated – 19544	2.50 PLS-lbs
Gaillardia Aristata, Not Stated – 19565	1.25 PLS-lbs
Desert Globe Mallow, Not Stated - 19376	2.50 PLS-lbs