NOT APPROVED

Cross Border ResourcesSunray State Tank Battery

Closure Report Section 16, Township 8S, Range 31E Chaves County, New Mexico

February 20, 2018



Prepared for: Red Mountain 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	Red Mountain	817-996-4653	ross@redmountainresources.com			
Pearson	Resources, Inc.		_			
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com			

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged to perform delineation services on the Sunray State Battery located in Section 16, Township 8S, Range 31E Chaves County, New Mexico. According to the C-141: a compromised line to the heater treater ruptured, causing a release of crude oil to ground surface. The line was repaired, and the impacted surface area was fenced in. The C-141 was filed with NMOCD on April 24, 2015 and assigned **1RP-3619**.

III. Surface and Ground Water

Research of the *New Mexico Office of the State Engineer* indicates that there is no record of groundwater in the immediate vicinity, but that average depth to water for Township 8S, and Range 31E is 103' BGS.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 100 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 250 mg/kg (PPM) is also required.

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

V. Work Performed

On June 15, 2016 SESI personnel were on location to address the concerns of ground surface impact. The impacted area was mapped utilizing a handheld Trimble Juno 3D, whereby it was determined that the spill area measured approximately 28,704 sq. ft. The site was flagged in order to activate a line locate request with the New Mexico One Center, in order to conduct a vertical delineation of the impacted area.

On June 29, 2016 SESI personnel revisited the site in order to determine the vertical extent of impact and map sample point positions. Four (4) Soil Bores were advanced from depths of 1' BGS at BH-4 to 27' BGS at BH-3, respectively. Representative soil samples were retrieved at various depth below ground surface, properly packaged, preserved, transported to Cardinal Labs of Hobbs, NM by Chain of Custody and analyzed for Chloride (Cl⁻) (Method SM 4500Cl-B). The results are presented in the table below:

	Soil Sample Results: Field Tests 06-29-16										
SAMPLE ID	Sample Date	Field Test CHLORIDES	Lab Results CHLORIDES								
BH-1 Surface	6/29/16	1030 ppm									
BH-1 @ 1'	6/29/16	1030 ppm									
BH-1 @ 2'	6/29/16	1040 ppm									
BH-1 @ 3'	6/29/16	1045 ppm									
BH-1 @ 4'	6/29/16		32.0								
BH-2 @ 4'	6/29/16	<124 ppm									
BH-3 @ 4'	07/01/16		32.0								
BH-3 @ 7'	6/29/16		976								
BH-3 @ 8'	07/01/16	4484 ppm									
BH-3 @ 11'	6/29/16	4884 ppm									
BH-3 @ 12'	7/01/16		2440								
BH-3 @ 13'	6/29/16	3164 ppm									
BH-3 @ 16'	7/01/16	1012 ppm									
BH-3 @ 17'	6/29/16	1528 ppm									
BH-3 @ 20'	7/01/16		976								
BH-3 @ 24'	07/01/16	360 ppm									
BH-3 @ 27'	07/01/16		192								
BH-4 Surface	6/29/16	<124									
	ł	<u>~124</u>	16.0								
BH-4 @ 1'	6/29/16		16.0								

Between October 13, 2016 and October 24, 2016, Gandy removed the hard pan hydrocarbon from the site and transported the material to an NMOCD approved facility.

Between November 7, 2017 and November 8, 2017, SESI personnel was onsite with Gandy Corporation backhoe operator at the Sunray State 2 Battery to begin remediation. The excavation was twelve by twelve square feet and soil samples were obtained and field test on all four walls. Soil samples were obtained and field tested on all four walls, and two areas from the bottom of the excavation. A liner was installed and loaded with backfill material. The excavation and sample points were mapped and photos were taken of the excavation and the installed liner. All soil samples were properly preserved.

On December 11, 2017, SESI personnel was onsite at the CBR Sunray Battery to till and reseed the affected area. SESI personnel walked the whole area of the site and hand spread the seed. Before and after photos of the area were taken.

VI. Request for Closure

The results of the confirmation sampling indicate that all soils impacted above 250ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. The area was backfilled with clean soil and returned to grade. The area has also been reseeded with BLM #2-LPC seed mixture, and SESI commits to a second application being applied in spring 2018. Cross Border Resources respectfully submits this closure report for your consideration, and requests that no further action be required.

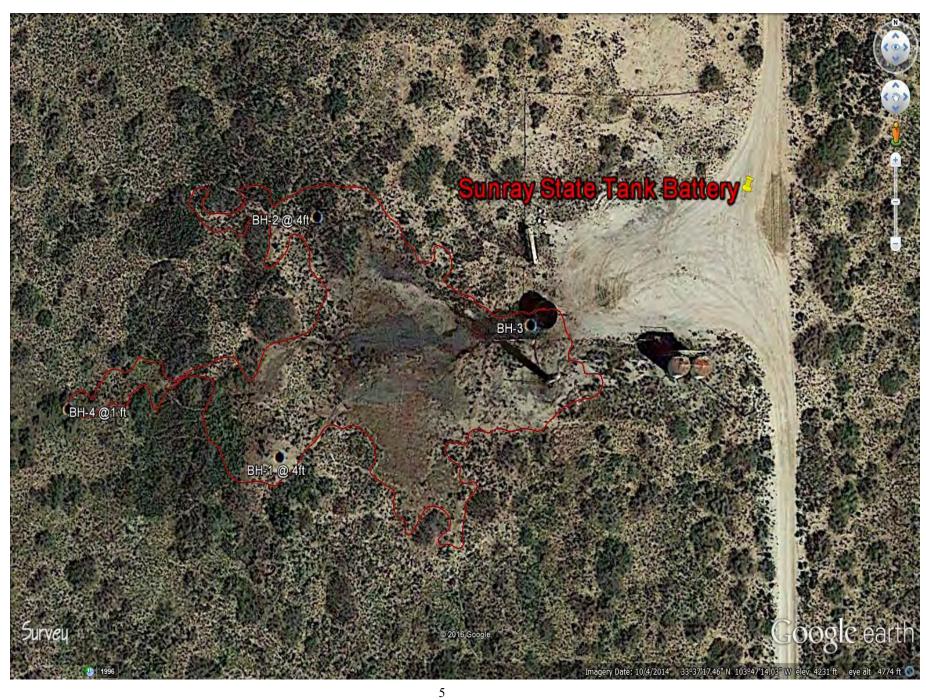
VII. Figures & Appendices

Figure 1 – Vicinity Map
Figure 2– Site Plan
Appendix A – Analytical Results
Appendix B – Site Photos
Appendix C – C-141

Figure 1 Vicinity Map



Figure 2 Site Plan



Appendix A Analytical Results



March 28, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CBR-16-001

Enclosed are the results of analyses for samples received by the laboratory on 03/24/17 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 03/24/2017

Sampling Date: 03/20/2017
Sampling Type: Soil

Reported: 03/28/2017
Project Name: CBR-16-001
Project Number: NONE GIVEN

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: AH -1 1' (H700779-01)

Chloride, SM4500CI-B	mg	mg/kg		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/27/2017	ND	448	112	400	0.00	
Sample ID: AH -1 1.5' (H70	0779-02)								

Chloride, SM4500CI-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	03/27/2017	ND	448	112	400	0.00	

Sample ID: AH -2 1' (H700779-03)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	448	112	400	0.00	

Sample ID: AH -2 2' (H700779-04)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: HM					
Analyte	Result Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/27/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 03/24/2017

 03/24/2017
 Sampling Date:
 03/20/2017

 03/28/2017
 Sampling Type:
 Soil

Reported: 03/28/2017
Project Name: CBR-16-001
Project Number: NONE GIVEN

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: AH -3 1' (H700779-05)

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

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 03/27/2017 ND 448 400 0.00 <16.0 16.0 112

Sample ID: AH -3 2' (H700779-06)

Chloride, SM4500Cl-B Analyzed By: HM mg/kg Reporting Limit Analyzed BS True Value QC RPD Qualifier Analyte Result Method Blank % Recovery 16.0 03/27/2017 448 400 0.00 Chloride <16.0 ND 112

Sample ID: AH -3 3' (H700779-07)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 03/27/2017 ND 400 0.00 Chloride <16.0 16.0 448 112

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	ANALYSIS REQUEST	1
Company Name: Safety and Environmental Solutions	Distr. 10	
Project Manager: Bob Allen	- 1	
3 East Clinton, PO Box 1613	Company: Same	
Hobbs	Attn:	
575 397-0510 F	Address:	
0	City:	
	State: Zip:	
Project Name:	Phone #:	
Project Location:	Fax#:	
Sampler Name:	PRESERV. SAMPLING	
MP.		
	THER: CID/BASE: DE / COOL THER: TIME	
) (G (G)	0 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
AH-1 ITA	03/20 1030	+
341-2 2 51	08/20 (055	+
	20	+
0.50	53/10 (215	+
7 AH 3 3A 4 1 K	8(2) 12/5 ×	+
		H
PLEASE NOTE: Uability and Darnages. Cardinal's liability and disent's exclusive remedy for any claim arising whether based in contract or toot, shall be imited to the amount paid by the clerk to expect the application of the property of the property of the application of the property o	contract or tort, shall be finited to the amount paid by the client for the liting and neohed by Candinal within 30 days after completion of the applicable ting and neohed by Candinal within incurred by client, its subsidiaries,	
analyses. As dearns incoming were stated reasons or otherwise. analyses, his dearns incoming the stated for incidential or consequential damages, including without trinsport, occurrence in no event shall Cardinal be stable for incidential or consequential damages, including without trinsport, occurrence in no event shall Cardinal be stable for incidential or consequential damages, including without trinsport, occurrence in more very stated reasons or otherwise. Phone Result	t: Yes No	
25 E	Fax Result: REMARKS:	
Sampler - UPS - Bus - Other: Delivered By: (Circle One) Cool Intact Cool Intact	21	



June 30, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CBR -16 -001

Enclosed are the results of analyses for samples received by the laboratory on 06/21/17 9:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001
Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Т -1 1'	H701601-01	Soil	20-Jun-17 11:15	21-Jun-17 09:31
TT -1 3'	H701601-02	Soil	20-Jun-17 11:15	21-Jun-17 09:31
TT -1 4'	H701601-03	Soil	20-Jun-17 11:20	21-Jun-17 09:31
TT -1 9'	H701601-04	Soil	20-Jun-17 11:40	21-Jun-17 09:31
TT -1 14'	H701601-05	Soil	20-Jun-17 12:00	21-Jun-17 09:31
TT -2 1'	H701601-06	Soil	20-Jun-17 12:20	21-Jun-17 09:31
TT -2 3'	H701601-07	Soil	20-Jun-17 12:20	21-Jun-17 09:31
TT -2 4'	H701601-08	Soil	20-Jun-17 12:30	21-Jun-17 09:31
TT -2 9'	H701601-09	Soil	20-Jun-17 12:50	21-Jun-17 09:31
TT -2 14'	H701601-10	Soil	20-Jun-17 13:10	21-Jun-17 09:31
TT -4 1'	H701601-11	Soil	20-Jun-17 13:15	21-Jun-17 09:31
TT -4 3'	H701601-12	Soil	20-Jun-17 13:15	21-Jun-17 09:31
TT -4 4'	H701601-13	Soil	20-Jun-17 13:30	21-Jun-17 09:31
TT -4 9'	H701601-14	Soil	20-Jun-17 13:45	21-Jun-17 09:31
TT -4 14'	H701601-15	Soil	20-Jun-17 14:00	21-Jun-17 09:31

Cardinal Laboratories *=Accredited Analyte

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Reported:

30-Jun-17 16:38



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

TT -1 1' H701601-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-	148	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	20.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			92.1 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			80.1 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	76.7		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

Cardinal Laboratories

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -1 3' H701601-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds l	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		101 %	72-	148	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			91.5 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.9 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)	l .									
Chloride	285		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN Project Manager: Bob Allen

Reported: 30-Jun-17 16:38

Fax To: (575) 393-4388

TT -1 4' H701601-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-1	148	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			91.5 %	28.3-	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.9 %	34.7-	157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	113		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -1 9' H701601-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	72-	148	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			93.7 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.1 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	26.7		10.0	mg/kg wet	10	B706234	JDA	30-Jun-17	EPA300.0	

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Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -1 14' H701601-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.9 %	72-	148	7062201	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			93.9 %	28.3-	.164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			77.5 %	34.7-	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										-
Chloride	27.0		10.0	mg/kg wet	10	B706234	JDA	30-Jun-17	EPA300.0	

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Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -2 1' H701601-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	72-1	148	7062201	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			95.5 %	28.3-	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			81.5 %	34.7-	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	10.2		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

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Project Number: NONE GIVEN Project Manager: Bob Allen

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Reported: 30-Jun-17 16:38

TT -2 3' H701601-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.5 %	72-1	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	16.7		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			90.8 %	28.3-	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			83.3 %	34.7-	157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	12.0		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

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TT -2 4'

H701601-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-1	48	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			90.6 %	28.3-	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.2 %	34.7-	157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	174		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

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Project Manager: Bob Allen

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Reported: 30-Jun-17 16:38

TT -2 9' H701601-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds l	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		99.7 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			90.6 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			78.0 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction))									
Chloride	82.3		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

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Project Manager: Bob Allen

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Reported: 30-Jun-17 16:38

TT -2 14' H701601-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by I	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	72-1	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			98.0 %	28.3-	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.9 %	34.7-	157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	27.8		10.0	mg/kg wet	10	B706234	JDA	30-Jun-17	EPA300.0	

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Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -4 1'

H701601-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.9 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			90.5 %	28.3-	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.0 %	34.7-	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	<10.0		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

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Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -4 3'

H701601-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.3 %	72-1	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			92.6 %	28.3-	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			82.4 %	34.7-	157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	16.6		10.0	mg/kg wet	10	B706234	JDA	30-Jun-17	EPA300.0	

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Project Number: NONE GIVEN

Project Manager: Bob Allen

Reported: 30-Jun-17 16:38

Fax To: (575) 393-4388

TT -4 4' H701601-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	72-1	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			95.8 %	28.3-	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			80.5 %	34.7-	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	<10.0		10.0	mg/kg wet	10	B706232	JDA	29-Jun-17	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -4 9'

H701601-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			88.5 %	28.3-	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			76.1 %	34.7-	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	78.6		10.0	mg/kg wet	10	B706232	JDA	29-Jun-17	EPA300.0	

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -4 14'

H701601-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062105	MS	21-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062105	MS	21-Jun-17	8015B	
Surrogate: 1-Chlorooctane			91.6 %	28.3-	-164	7062105	MS	21-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			95.3 %	34.7-	-157	7062105	MS	21-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	<100		100	mg/kg wet	100	B706232	JDA	29-Jun-17	EPA300.0	

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7062201 - Volatiles										
Blank (7062201-BLK1)				Prepared &	Analyzed:	22-Jun-17				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.6	72-148			
LCS (7062201-BS1)				Prepared &	Analyzed:	22-Jun-17				
Benzene	2.17	0.050	mg/kg	2.00		109	79.5-124			
Toluene	2.00	0.050	mg/kg	2.00		99.8	75.5-127			
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	77.7-125			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		98.9	72-148			
LCS Dup (7062201-BSD1)				Prepared &	Analyzed:	22-Jun-17				
Benzene	2.20	0.050	mg/kg	2.00		110	79.5-124	1.21	6.5	
Toluene	2.03	0.050	mg/kg	2.00		101	75.5-127	1.55	7.02	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	77.7-125	3.17	7.83	
Total Xylenes	6.06	0.150	mg/kg	6.00		101	70.9-124	3.22	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.6	72-148			
Batch 7062202 - Volatiles										
Blank (7062202-BLK1)				Prepared: 2	.2-Jun-17 A	nalyzed: 2	3-Jun-17			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	72-148			

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7062202 - Volatiles										
LCS (7062202-BS1)				Prepared: 2	22-Jun-17 A	nalyzed: 2	3-Jun-17			
Benzene	2.17	0.050	mg/kg	2.00		109	79.5-124			
Toluene	1.99	0.050	mg/kg	2.00		99.6	75.5-127			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	77.7-125			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	72-148			
LCS Dup (7062202-BSD1)				Prepared: 2	2-Jun-17 A	nalyzed: 2	3-Jun-17			
Benzene	2.17	0.050	mg/kg	2.00		108	79.5-124	0.261	6.5	
Toluene	1.98	0.050	mg/kg	2.00		98.8	75.5-127	0.837	7.02	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	77.7-125	0.580	7.83	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.5	70.9-124	0.547	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	72-148			

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Ratch	7062104 -	General Prep	- Organics
Daten	/002104 -	Creneral Fred	- Organics

Blank (7062104-BLK1)				Prepared & Anal	lyzed: 21-Jun-17				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	45.2		mg/kg	50.0	90.4	28.3-164			
Surrogate: 1-Chlorooctadecane	40.0		mg/kg	50.0	80.1	34.7-157			
LCS (7062104-BS1)				Prepared & Anal	lyzed: 21-Jun-17				
GRO C6-C10	177	10.0	mg/kg	200	88.6	76.6-119			
DRO >C10-C28	182	10.0	mg/kg	200	90.9	81.4-124			
Total TPH C6-C28	359	10.0	mg/kg	400	89.8	79.4-121			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0	97.6	28.3-164			
Surrogate: 1-Chlorooctadecane	43.6		mg/kg	50.0	87.1	34.7-157			
LCS Dup (7062104-BSD1)				Prepared & Anal	lyzed: 21-Jun-17				
GRO C6-C10	183	10.0	mg/kg	200	91.4	76.6-119	3.03	7.94	
DRO >C10-C28	186	10.0	mg/kg	200	92.9	81.4-124	2.24	9.83	
Total TPH C6-C28	369	10.0	mg/kg	400	92.1	79.4-121	2.63	8.57	
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0	101	28.3-164			
Surrogate: 1-Chlorooctadecane	42.0		mg/kg	50.0	84.0	34.7-157			

Batch 7062105 - General Prep - Organics

Blank (7062105-BLK1)				Prepared & Anal	lyzed: 21-Jun-17		
GRO C6-C10	ND	10.0	mg/kg				
DRO >C10-C28	ND	10.0	mg/kg				
EXT DRO >C28-C35	ND	10.0	mg/kg				
EXT DRO >C28-C36	ND	10.0	mg/kg				
Total TPH C6-C28	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0	91.8	28.3-164	
Surrogate: 1-Chlorooctadecane	48.1		mg/kg	50.0	96.1	34.7-157	

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%REC

Limits

RPD



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240

Surrogate: 1-Chlorooctadecane

Analyte

Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen Fax To: (575) 393-4388 Reported: 30-Jun-17 16:38

RPD

Limit

Notes

Spike

Level

50.0

Source

Result

%REC

98.9

34.7-157

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

49.4

LCS (7062105-BS1)				Prepared & Anal	yzed: 21-Jun-17			
GRO C6-C10	212	10.0	mg/kg	200	106	76.6-119		
DRO >C10-C28	225	10.0	mg/kg	200	112	81.4-124		
Total TPH C6-C28	437	10.0	mg/kg	400	109	79.4-121		
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0	101	28.3-164		
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0	100	34.7-157		
LCS Dup (7062105-BSD1)				Prepared & Anal	yzed: 21-Jun-17			
GRO C6-C10	215	10.0	mg/kg	200	107	76.6-119	1.15	7.94
DRO >C10-C28	229	10.0	mg/kg	200	114	81.4-124	1.83	9.83
Total TPH C6-C28	444	10.0	mg/kg	400	111	79.4-121	1.50	8.57
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0	104	28.3-164		

mg/kg

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Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source	0/859	%REC	222	RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch B706232 - General Prep - Wet Chem											
Blank (B706232-BLK1)	Prepared: 27-Jun-17 Analyzed: 28-Jun-17										
Chloride	ND	10.0	mg/kg wet								
LCS (B706232-BS1)				Prepared: 27-Jun-17 Analyzed: 28-Jun-17							
Chloride	241	10.0	mg/kg wet	250	·	96.3	85-115		·	·	
LCS Dup (B706232-BSD1)				Prepared: 27-Jun-17 Analyzed: 28-Jun-17							
Chloride	243	10.0	mg/kg wet	250		97.1	85-115	0.798	20		
Batch B706234 - General Prep - Wet Chem											
Blank (B706234-BLK1)				Prepared: 27-Jun-17 Analyzed: 29-Jun-17							
Chloride	ND	10.0	mg/kg wet								
LCS (B706234-BS1)		Prepared: 27-Jun-17 Analyzed: 29-Jun-17									
Chloride	239	10.0	mg/kg wet	250		95.8	85-115				
LCS Dup (B706234-BSD1)	Prepared: 27-Jun-17 Analyzed: 29-Jun-17										
Chloride	240	10.0	mg/kg wet	250		96.2	85-115	0.396	20	·	

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By: Circle One Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Company Name: Safety and Environmental Solutions Company Name: Safety and Environmental Solutions Project Manager: Bob Allen Project Manager: Bob Allen Address: 703 East Clinton, PO Box 1613 State: NM Zip: 88 City: Hobbs State: NM Zip: 88 Phone #: 575 397-0510 Fax #: 575 393-438 Project Name: Project Name: Project Name: Sampler Name: FOR LAB USE ONLY THE TOTAL SAMPLE I.D. Sample I.D. Sample I.D. 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
PLEASE NOTE: Lusting and control and any other cause whatboever is shall be obtained in charge in charge in whole in mitation, business interruptions, bots of use, or boso or part analyses. All claims including which in individual in the consequent and amages, including whole it mitation, business interruptions, bots of use, or boso or part of the above stated reasons or otherwise. Phone Result: Phone Result: Received By: Received By: Relinquished By: Cool Intact Checker By: Sample Condition CHECKER BY: Sample Condition CHECKER BY: Sample Condition CHECKER BY: Remarks:	tal Solutions tal Solutions tal Solutions P.O. #: Company: Same Address: State: Zip: State: Zip: Fax #: Phone #: Fax #: Fax #: Fax #: OMP. Given and dain matterly whether based in content and bit in hirded to the amount paid by the desire for the state of the stat
ult: □ Yes □ No Add'I Phone #:	ANALYSIS REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

11

Appendix B Site Photos

Cross Border Resources Sunray State Tank Battery 5-31-2017













































































Cross Border Resources Sunray State Tank Battery























Appendix C C-141

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Specific Cause of Problem and Remedial Action Taken.* Surface Cause of Froblem and Remedial Action Taken.* Surface Cause Office Cause of Froblem and Remedial Action Taken.* Surface Cause Office Cause of Froblem and Remedial Action Taken.* Surface Cause Office Cause Offic	Release Notification	on and Co	rrective A	ction					
Name of Company Cross Border Resources		OPERA	OR	ial Report	Final Report				
Facility Name Surray State Battery	Name of Company Cross Border Resources	· · · · · · · · · · · · · · · · · · ·							
Surface Owner New Mexico State Lands Mineral Owner New Mexico State Lands API No. 30-005-21036 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County									
LOCATION OF RELEASE	Facility Name Sunray State Battery	Facility Type Tank Battery							
Distribute Section Township Range Feet from the North/South Line Feet from the East/West Line County	Surface Owner New Mexico State Lands Mineral Owner	r New Mexico	State Lands	API N	o. 30-005-210	36			
Latitude	LOCATION OF RELEASE								
NATURE OF RELEASE	Unit Letter Section Township Range Feet from the Nor	th/South Line	Feet from the	East/West Line	County				
NATURE OF RELEASE	F 16 8S 31E 1980' Nor	th	1650'	West	Chaves				
Type of Release Oil Source of Release Coil Source of Release Coil Source of Release Tank Battery, Heater Treater Date and Hour of Coursernee N/A Date and Hour of Coursernee N/A Date and Hour of Discovery 10/17/2014 FYES, To Whom? By Whom? Was a Watercourse Reached? Was a Watercourse Reached? Was a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Rupture in the Heater-Treater Separator to the water tank. Line has been fixed. Spill area has been fenced in. Samples have been taken. Please find attached report from Hall Environmental. Describe Area Affected and Cleanup Action Taken.* A 35' by 70' area has been affected with spilled oil. Plan to till contaminated soil with micro-blaze and water affected area until hydrocarbon levels get down to an acceptable level per NMOCD guidelines. Once soil reaches acceptable hydrocarbon levels, plan to seed the soil with native grasses. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD material Report does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that as "Final Report" does not relieve the operator of liability or compliance with any other Referral, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Title: Chairman Approved Date: Expiration Date: Expiration Date:									
Volume of Release Oil Volume of Release Unknown Volume Recovered None Source of Release Tank Battery, Heater Treater Date and Hour of Occurrence N/A Date and Hour of Discovery 10/17/2014 If YES, To Whom? Tyes No Not Required None Not Required Date and Hour of Discovery 10/17/2014 If YES, Volume Impacting the Watercourse. Date and Hour If YES, Volume Impacting the Watercourse.									
Source of Release Tank Battery, Heater Treater Date and Hour of Occurrence N/A Date and Hour of Discovery 10/17/2014 Was Immediate Notice Given? Yes No Not Required By Whom? Date and Hour Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.*				m Volume	Recovered No	ne			
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Date: 4/13/2015 Phone: 214-871-0400									

^{*} Attach Additional Sheets If Necessary