

Cross Border Resources
Sunray State Tank Battery

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

July 18, 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 Pearson | Red Mountain Resources, Inc. | 817-996-4653 | ross@redmountainresources.com |
| 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 seasonal high water elevation of groundwater) | Less than 50 feet | 20 points | |
| | 50 feet to 99 feet | 10 points | |
| | >100 feet | 0 points | X |
| Wellhead Protection Area: | | | |
| (Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources) | Yes | 20 points | |
| | No | 0 points | X |
| Distance to Surface Water: | | | |
| (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) | Less than 200 feet | 20 points | |
| | 200 feet to 1000 feet | 10 points | |
| | >1000 feet | 0 points | X |
| RANKING SCORE (TOTAL POINTS) | | | 0 |

V. Work Performed

On June 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 @ 4' | 6/29/16 | <124 ppm | 32.0 |
| BH-2 @ 4' | 6/29/16 | <124 ppm | 32.0 |
| BH-3 @ 4' | 07/01/16 | 1428 ppm | 976 |
| BH-3 @ 7' | 6/29/16 | 8548 ppm | |
| BH-3 @ 8' | 07/01/16 | 4484 ppm | |
| BH-3 @ 11' | 6/29/16 | 4884 ppm | |
| BH-3 @ 12' | 7/01/16 | 1636 ppm | 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 | 872 ppm | 976 |
| BH-3 @ 24' | 07/01/16 | 360 ppm | |
| BH-3 @ 27' | 07/01/16 | | 192 |
| BH-4 Surface | 6/29/16 | <124 | |
| 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 packaged, preserved, transported to Hall Labs of Albuquerque, 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: 11-21-17 | | |
|-------------------------------|-------------|--------------------------|
| SAMPLE ID | Sample Date | Lab Results CHLORIDES |
| SP 1 Bottom 4ft | 11/9/2017 | 150 |
| SP-2 Bottom 4ft | 11/9/2017 | 900 |
| SP-3 North Wall | 11/9/2017 | ND |
| SP-4 West Wall | 11/9/2017 | 120 |
| SP-5 South Wall | 11/9/2017 | 110 |
| SP-6 East Wall | 11/9/2017 | 65 |

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.

On June 25, 108, SESI personnel was onsite at the CBR Sunray Battery to obtain soil samples for testing. Representative soil samples were 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: 06-25-18 | | | |
|-------------------------------|-------------|-------------------------|--------------------------|
| SAMPLE ID | Sample Date | Field Test CHLORIDES | Lab Results CHLORIDES |
| BH-1 Surface | 6/25/2018 | 180 | 238 |
| BH-1 @ 1' | 6/25/2018 | 180 | 140 |
| BH-1 @ 2' | 6/25/2018 | 268 | 161 |
| BH-1 @ 3' | 6/25/2018 | 268 | 186 |
| BH-2 Surface | 6/25/2018 | <128 | 18.6 |
| BH-2 @ 1' | 6/25/2018 | <128 | 17.1 |
| BH-2 @ 2' | 6/25/2018 | <128 | 15.4 |
| BH-2 @ 3' | 6/25/2018 | <128 | 19.3 |

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



Survey

© 2016 Google

Google earth

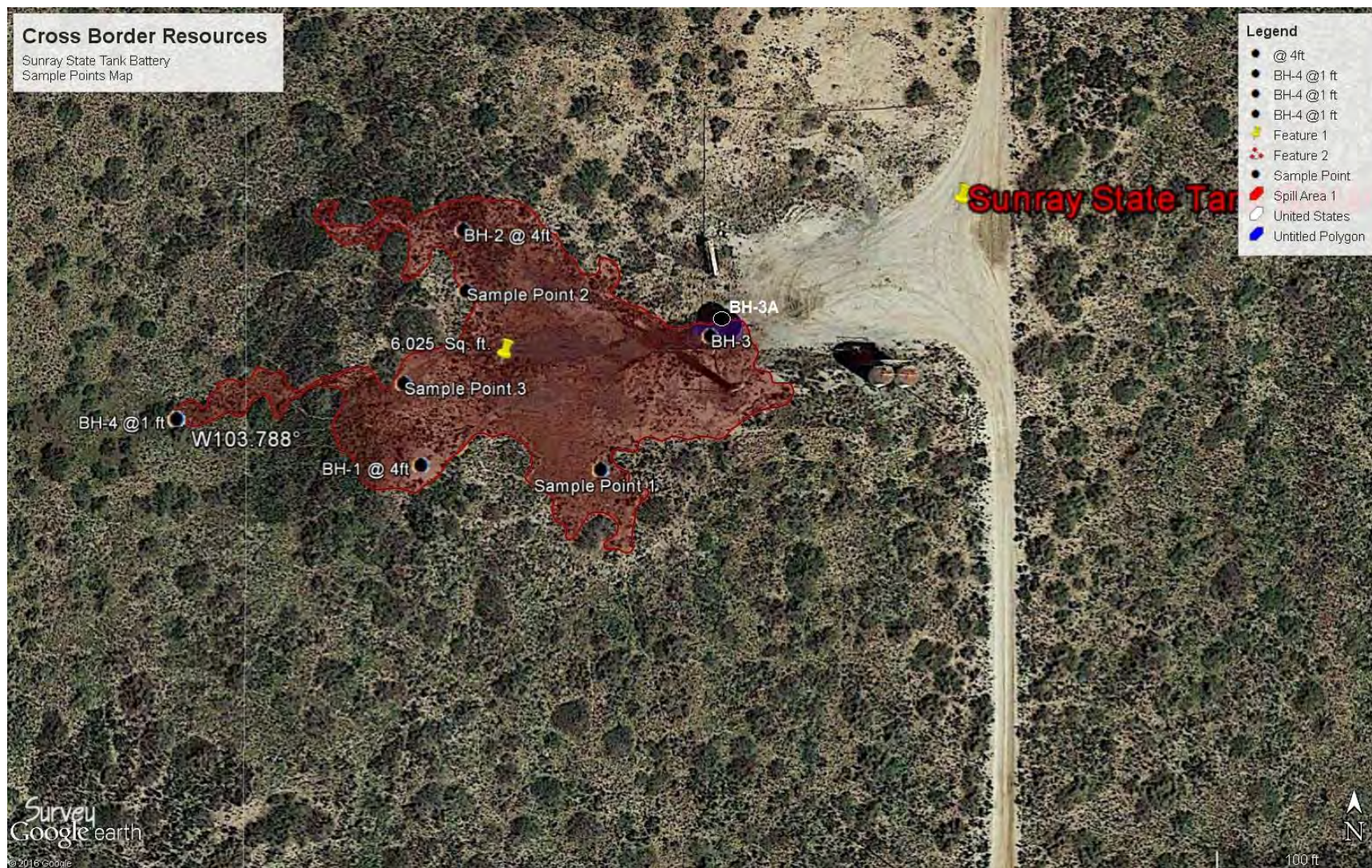
1996

Imagery Date: 10/4/2014 33°37'17.32" N 103°47'13.83" W elev 4231 ft eye alt 4821 ft

Figure 2 Site Plan

Cross Border Resources
Sunray State Tank Battery
Sample Points Map

- Legend**
- @ 4ft
 - BH-4 @1 ft
 - BH-4 @1 ft
 - BH-4 @1 ft
 - Feature 1
 - Feature 2
 - Sample Point
 - Spill Area 1
 - United States
 - Untitled Polygon



Appendix A

Analytical Results

July 12, 2016

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 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,



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: CBR-16-001
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/29/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: BH-1 4' (H601503-01)

| 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 | 432 | 108 | 400 | 3.77 | |

Sample ID: BH-2 4' (H601503-02)

| 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 | 432 | 108 | 400 | 3.77 | |

Sample ID: BH-3 4' (H601503-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 976 | 16.0 | 07/07/2016 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: BH-3 12' (H601503-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2440 | 16.0 | 07/07/2016 | ND | 432 | 108 | 400 | 3.77 | |

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: CBR-16-001
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 20' (H601503-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 976 | 16.0 | 07/07/2016 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: BH-3 27' (H601503-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 07/07/2016 | ND | 432 | 108 | 400 | 3.77 | |

Sample ID: BH-4 1' (H601503-07)

| 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 | 432 | 108 | 400 | 3.77 | |

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 |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

for

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | |
|--|--|----------------------|--|------------------|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: Safety and Environmental Solutions | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | |
| Project Manager: Bob Allen | | P.O. #: | | | | | | | | | | | | | |
| Address: 703 East Clinton, PO Box 1613 | | Company: Same | | | | | | | | | | | | | |
| City: Hobbs | | Attn: | | | | | | | | | | | | | |
| Phone #: 575 397-0510 | | Address: | | | | | | | | | | | | | |
| Fax #: 575 393-4388 | | City: | | | | | | | | | | | | | |
| Project #: CBR-16-001 | | State: NM Zip: 88240 | | | | | | | | | | | | | |
| Project Owner: | | City: | | | | | | | | | | | | | |
| Project Name: | | State: | | | | | | | | | | | | | |
| Project Location: | | Zip: | | | | | | | | | | | | | |
| Phone #: | | Phone #: | | | | | | | | | | | | | |
| Fax #: | | Fax #: | | | | | | | | | | | | | |
| Sampler Name: | | PRESERV | | SAMPLING | | | | | | | | | | | |
| FOR LAB USE ONLY | | MATRIX | | | | | | | | | | | | | |
| Lab I.D. | | Sample I.D. | | | | | | | | | | | | | |
| H601503 | | (G)RAB OR (C)OMP. | | | | | | | | | | | | | |
| 1 | | # CONTAINERS | | | | | | | | | | | | | |
| 2 | | GROUNDWATER | | | | | | | | | | | | | |
| 3 | | WASTEWATER | | | | | | | | | | | | | |
| 4 | | SOIL | | | | | | | | | | | | | |
| 5 | | OIL | | | | | | | | | | | | | |
| 6 | | SLUDGE | | | | | | | | | | | | | |
| 7 | | OTHER : | | | | | | | | | | | | | |
| 8 | | ACID/BASE: | | | | | | | | | | | | | |
| 9 | | ICE / COOL | | | | | | | | | | | | | |
| 10 | | OTHER : | | | | | | | | | | | | | |
| 11 | | DATE | | TIME | | | | | | | | | | | |
| 12 | | 06/28 | | 1050 | | | | | | | | | | | |
| 13 | | 06/28 | | 1115 | | | | | | | | | | | |
| 14 | | 07/01 | | 1000 | | | | | | | | | | | |
| 15 | | 07/01 | | 1045 | | | | | | | | | | | |
| 16 | | 07/01 | | 1130 | | | | | | | | | | | |
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Relinquished By: *[Signature]* Date: *07/01/16* Time: *8900* Received By: *[Signature]* Date: *07/01/16* Time: *8900*

Delivered By: (Circle One) *25.42* Sample Condition ☒ Cool ☐ Intact ☐ Yes ☒ No ☐ Yes ☒ No ☐ Yes ☒ No ☐ Yes ☒ No

Sampler - UPS - Bus - Other: *25.42* Checked By: *[Signature]*

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

REMARKS:

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/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: 03/24/2017
 Reported: 03/28/2017
 Project Name: CBR-16-001
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/20/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

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

| 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 -1 1.5' (H700779-02)

| 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, 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 2' (H700779-04)

| 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 | |

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: 03/24/2017
Reported: 03/28/2017
Project Name: CBR-16-001
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/20/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

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 | <16.0 | 16.0 | 03/27/2017 | ND | 448 | 112 | 400 | 0.00 | | |

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

| 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 | 03/27/2017 | ND | 448 | 112 | 400 | 0.00 | | |

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 | |
| Chloride | <16.0 | 16.0 | 03/27/2017 | ND | 448 | 112 | 400 | 0.00 | | |

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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 |

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(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
State: NM **Zip:** 88240
Phone #: 575 397-0510 **Fax #:** 575 393-4388
Project #: CR-16-001 **Project Owner:**
Project Name:
Project Location:

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

Sample Name: FOR LAB USE ONLY

Lab I.D. **Sample I.D.**

| | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | DATE | TIME | |
|--------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|-------|------|---|
| | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | |
| 1 AH-1 1A | 1 | 1 | X | | | | | | 03/20 | 1000 | X |
| 2 AH-1 1.5-A | 1 | 1 | X | | | | | | 03/20 | 1030 | |
| 3 AH-2 1A | 1 | 1 | X | | | | | | 03/20 | 1055 | |
| 4 AH-2 2A | 1 | 1 | X | | | | | | 03/20 | 1125 | |
| 5 AH-3 1A | 1 | 1 | X | | | | | | 03/20 | 1150 | |
| 6 AH-3 2A | 1 | 1 | X | | | | | | 03/20 | 1215 | |
| 7 AH-3 3A | 1 | 1 | X | | | | | | 03/20 | 1235 | |

Reinquinished By: **Received By:**

Reinquinished By: **Received By:**

Delivered By: (Circle One) **Sample Condition** **CHECKED BY:**

Sampler - UPS - Bus - Other: ☐ Cool ☒ Intact **(Initials)**

REMARKS:

Phone Result: ☐ Yes ☐ No **Add'l Phone #:**

Fax Result: ☐ Yes ☐ No **Add'l Fax #:**

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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_accred_certif.html.

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

| | |
|------------------|--------------------------------|
| 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) |

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

Analytical Results For:Safety & Environmental Solutions
703 East Clinton
Hobbs NM, 88240Project: CBR -16 -001
Project Number: NONE GIVEN
Project Manager: Bob Allen
Fax To: (575) 393-4388Reported:
30-Jun-17 16:38

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-----------------|-----------------|
| TT -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 |

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Celey D. Keene, Lab Director/Quality Manager

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

TT -1 1' H701601-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 76.7 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

TT -1 3' H701601-02 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 | <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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 285 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

TT -1 4' H701601-03 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 | <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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 113 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

TT -1 9' H701601-04 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 26.7 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 30-Jun-17 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

TT -1 14' H701601-05 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Volatile Organic Compounds by 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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 27.0 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 30-Jun-17 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

TT -2 1' H701601-06 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Volatile Organic Compounds by 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 | |
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 100 % | 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 | |
| <i>Surrogate: 1-Chlorooctane</i> | | | 95.5 % | 28.3-164 | | 7062104 | MS | 22-Jun-17 | 8015B | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 81.5 % | 34.7-157 | | 7062104 | MS | 22-Jun-17 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 10.2 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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

TT -2 3' H701601-07 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 % | 72-148 | | 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 | 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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 12.0 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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

TT -2 4' H701601-08 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 | 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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 174 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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

TT -2 9' H701601-09 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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) | | | 99.7 % | 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 | | | 90.6 % | 28.3-164 | | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 78.0 % | 34.7-157 | | 7062104 | MS | 22-Jun-17 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 82.3 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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

TT -2 14' H701601-10 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 % | 72-148 | | 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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 27.8 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 30-Jun-17 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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

TT -4 1' H701601-11 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|-------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | <10.0 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|-------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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

TT -4 3' H701601-12 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 | |
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 99.3 % | 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 | |
| <i>Surrogate: 1-Chlorooctane</i> | | | 92.6 % | 28.3-164 | | 7062104 | MS | 22-Jun-17 | 8015B | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 82.4 % | 34.7-157 | | 7062104 | MS | 22-Jun-17 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 16.6 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 30-Jun-17 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

TT -4 4' H701601-13 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 % | 72-148 | | 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 | | | 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 Analytical Laboratories

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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Celey D. Keene, Lab Director/Quality Manager

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

TT -4 9'
H701601-14 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories
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 | |
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 99.6 % | 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 | |
| <i>Surrogate: 1-Chlorooctane</i> | | | 88.5 % | 28.3-164 | | 7062104 | MS | 22-Jun-17 | 8015B | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 76.1 % | 34.7-157 | | 7062104 | MS | 22-Jun-17 | 8015B | |

Green Analytical Laboratories
Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 78.6 | | 10.0 | mg/kg wet | 10 | B706232 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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

TT -4 14' H701601-15 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

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 Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|-----|-----------|-----|---------|-----|-----------|----------|--|
| Chloride | <100 | | 100 | mg/kg wet | 100 | B706232 | JDA | 29-Jun-17 | EPA300.0 | |
|----------|------|--|-----|-----------|-----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | 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-BS1)

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: 22-Jun-17 Analyzed: 23-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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Celey D. Keene, Lab Director/Quality Manager

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

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

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

Batch 7062202 - Volatiles

LCS (7062202-BS1)

Prepared: 22-Jun-17 Analyzed: 23-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: 22-Jun-17 Analyzed: 23-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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Celey D. Keene, Lab Director/Quality Manager

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

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

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

Batch 7062104 - General Prep - Organics

Blank (7062104-BLK1)

Prepared & Analyzed: 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 & Analyzed: 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 & Analyzed: 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 & Analyzed: 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 | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

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

Batch 7062105 - General Prep - Organics

LCS (7062105-BS1)

Prepared & Analyzed: 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-BS1)

Prepared & Analyzed: 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 | | | |
| Surrogate: 1-Chlorooctadecane | 49.4 | | mg/kg | 50.0 | | 98.9 | 34.7-157 | | | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

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

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

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

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 #: CR-16-001 Project Owner:

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

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H701602

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

MATRIX

PRESERV

SAMPLING

DATE TIME

06/20 1115

06/20 1115

06/20 1120

06/20 1140

06/20 1200

06/20 1220

06/20 1220

06/20 1230

06/20 1250

BTX
TPH 8015
Chlorides 300

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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, 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.

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Date: 06/21/17

Time: 0800

Received By:

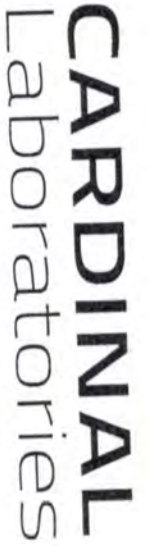
Date: 06/21/17

Time: 0800

Relinquished By:

Date: 06/21/17

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Page 25 of 25



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 21, 2017

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Sunray CBR State 2

OrderNo.: 1711621

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/10/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-1 Bottom 4ft

Project: Sunray CBR State 2

Collection Date: 11/7/2017 12:05:00 PM

Lab ID: 1711621-001

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|------------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CJS |
| Chloride | 150 | 30 | | mg/Kg | 20 | 11/17/2017 11:11:43 AM | 35045 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 11/15/2017 1:55:10 PM | 34988 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 11/15/2017 1:55:10 PM | 34988 |
| Surr: DNOP | 96.7 | 70-130 | | %Rec | 1 | 11/15/2017 1:55:10 PM | 34988 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 11/14/2017 1:12:46 AM | 34944 |
| Surr: BFB | 93.3 | 15-316 | | %Rec | 1 | 11/14/2017 1:12:46 AM | 34944 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 11/14/2017 1:12:46 AM | 34944 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 11/14/2017 1:12:46 AM | 34944 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 11/14/2017 1:12:46 AM | 34944 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 11/14/2017 1:12:46 AM | 34944 |
| Surr: 4-Bromofluorobenzene | 92.3 | 80-120 | | %Rec | 1 | 11/14/2017 1:12:46 AM | 34944 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-2 Bottom 4ft

Project: Sunray CBR State 2

Collection Date: 11/7/2017 12:40:00 PM

Lab ID: 1711621-002

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|------------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CJS |
| Chloride | 900 | 30 | | mg/Kg | 20 | 11/17/2017 11:48:57 AM | 35045 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 11/15/2017 2:17:23 PM | 34988 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 11/15/2017 2:17:23 PM | 34988 |
| Surr: DNOP | 96.8 | 70-130 | | %Rec | 1 | 11/15/2017 2:17:23 PM | 34988 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 11/14/2017 1:36:13 AM | 34944 |
| Surr: BFB | 90.8 | 15-316 | | %Rec | 1 | 11/14/2017 1:36:13 AM | 34944 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 11/14/2017 1:36:13 AM | 34944 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 11/14/2017 1:36:13 AM | 34944 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 11/14/2017 1:36:13 AM | 34944 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 11/14/2017 1:36:13 AM | 34944 |
| Surr: 4-Bromofluorobenzene | 91.2 | 80-120 | | %Rec | 1 | 11/14/2017 1:36:13 AM | 34944 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-3 NorthWall

Project: Sunray CBR State 2

Collection Date: 11/7/2017 10:20:00 AM

Lab ID: 1711621-003

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|------------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CJS |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/17/2017 12:01:21 PM | 35045 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 11/15/2017 2:39:28 PM | 34988 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 11/15/2017 2:39:28 PM | 34988 |
| Surr: DNOP | 93.9 | 70-130 | | %Rec | 1 | 11/15/2017 2:39:28 PM | 34988 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 11/14/2017 1:59:39 AM | 34944 |
| Surr: BFB | 91.7 | 15-316 | | %Rec | 1 | 11/14/2017 1:59:39 AM | 34944 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 11/14/2017 1:59:39 AM | 34944 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 11/14/2017 1:59:39 AM | 34944 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 11/14/2017 1:59:39 AM | 34944 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 11/14/2017 1:59:39 AM | 34944 |
| Surr: 4-Bromofluorobenzene | 92.9 | 80-120 | | %Rec | 1 | 11/14/2017 1:59:39 AM | 34944 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-4 WestWall

Project: Sunray CBR State 2

Collection Date: 11/7/2017 11:35:00 AM

Lab ID: 1711621-004

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|------------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CJS |
| Chloride | 120 | 30 | | mg/Kg | 20 | 11/17/2017 12:13:46 PM | 35045 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 11/15/2017 3:01:35 PM | 34988 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 11/15/2017 3:01:35 PM | 34988 |
| Surr: DNOP | 85.7 | 70-130 | | %Rec | 1 | 11/15/2017 3:01:35 PM | 34988 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 11/14/2017 2:23:00 AM | 34944 |
| Surr: BFB | 88.9 | 15-316 | | %Rec | 1 | 11/14/2017 2:23:00 AM | 34944 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 11/14/2017 2:23:00 AM | 34944 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 11/14/2017 2:23:00 AM | 34944 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 11/14/2017 2:23:00 AM | 34944 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 11/14/2017 2:23:00 AM | 34944 |
| Surr: 4-Bromofluorobenzene | 89.0 | 80-120 | | %Rec | 1 | 11/14/2017 2:23:00 AM | 34944 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-5 SouthWall

Project: Sunray CBR State 2

Collection Date: 11/7/2017 10:50:00 AM

Lab ID: 1711621-005

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|------------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CJS |
| Chloride | 110 | 30 | | mg/Kg | 20 | 11/17/2017 12:51:00 PM | 35045 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 11/15/2017 3:23:36 PM | 34988 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 11/15/2017 3:23:36 PM | 34988 |
| Surr: DNOP | 83.3 | 70-130 | | %Rec | 1 | 11/15/2017 3:23:36 PM | 34988 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 11/14/2017 2:46:22 AM | 34944 |
| Surr: BFB | 90.7 | 15-316 | | %Rec | 1 | 11/14/2017 2:46:22 AM | 34944 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 11/14/2017 2:46:22 AM | 34944 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 11/14/2017 2:46:22 AM | 34944 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 11/14/2017 2:46:22 AM | 34944 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 11/14/2017 2:46:22 AM | 34944 |
| Surr: 4-Bromofluorobenzene | 91.1 | 80-120 | | %Rec | 1 | 11/14/2017 2:46:22 AM | 34944 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-6 Eastwall

Project: Sunray CBR State 2

Collection Date: 11/7/2017 11:25:00 AM

Lab ID: 1711621-006

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CJS |
| Chloride | 65 | 30 | | mg/Kg | 20 | 11/17/2017 1:03:24 PM | 35045 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 11/15/2017 3:45:43 PM | 34988 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 11/15/2017 3:45:43 PM | 34988 |
| Surr: DNOP | 79.9 | 70-130 | | %Rec | 1 | 11/15/2017 3:45:43 PM | 34988 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 11/14/2017 3:09:43 AM | 34944 |
| Surr: BFB | 91.6 | 15-316 | | %Rec | 1 | 11/14/2017 3:09:43 AM | 34944 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 11/14/2017 3:09:43 AM | 34944 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 11/14/2017 3:09:43 AM | 34944 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 11/14/2017 3:09:43 AM | 34944 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 11/14/2017 3:09:43 AM | 34944 |
| Surr: 4-Bromofluorobenzene | 92.6 | 80-120 | | %Rec | 1 | 11/14/2017 3:09:43 AM | 34944 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711621

21-Nov-17

Client: Safety & Environmental Solutions

Project: Sunray CBR State 2

| | | | | | | | | | | |
|------------|------------|-----|---------------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-35045 | | SampType: mblk | | TestCode: EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | | Batch ID: 35045 | | RunNo: 47229 | | | | | |
| Prep Date: | 11/17/2017 | | Analysis Date: 11/17/2017 | | SeqNo: 1506472 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|-----|---------------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-35045 | | SampType: lcs | | TestCode: EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | | Batch ID: 35045 | | RunNo: 47229 | | | | | |
| Prep Date: | 11/17/2017 | | Analysis Date: 11/17/2017 | | SeqNo: 1506473 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.5 | 90 | 110 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711621

21-Nov-17

Client: Safety & Environmental Solutions

Project: Sunray CBR State 2

| | | | | | | | | | | |
|-----------------------------|------------|-----|---------------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-34988 | | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | | Batch ID: 34988 | | RunNo: 47144 | | | | | |
| Prep Date: | 11/14/2017 | | Analysis Date: 11/15/2017 | | SeqNo: 1504196 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45 | 10 | 50.00 | 0 | 89.2 | 73.2 | 114 | | | |
| Surr: DNOP | 4.2 | | 5.000 | | 83.6 | 70 | 130 | | | |

| | | | | | | | | | | |
|--------------------------------|------------|---------------------------|-----------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-34988 | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: 34988 | | | RunNo: 47144 | | | | | |
| Prep Date: | 11/14/2017 | Analysis Date: 11/15/2017 | | | SeqNo: 1504197 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.3 | | 10.00 | | 92.8 | 70 | 130 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711621

21-Nov-17

Client: Safety & Environmental Solutions

Project: Sunray CBR State 2

| | | | | | | | | | | |
|-------------------------------|------------|-----|---------------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-34944 | | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | | Batch ID: 34944 | | RunNo: 47077 | | | | | |
| Prep Date: | 11/10/2017 | | Analysis Date: 11/13/2017 | | SeqNo: 1502179 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 920 | | 1000 | | 92.4 | 15 | 316 | | | |

| | | | | | | | | | | |
|-------------------------------|------------|-----|---------------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-34944 | | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | | Batch ID: 34944 | | RunNo: 47077 | | | | | |
| Prep Date: | 11/10/2017 | | Analysis Date: 11/13/2017 | | SeqNo: 1502180 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 100 | 75.9 | 131 | | | |
| Surr: BFB | 1000 | | 1000 | | 104 | 15 | 316 | | | |

Qualifiers:

| | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711621

21-Nov-17

Client: Safety & Environmental Solutions

Project: Sunray CBR State 2

| | | | | | | | | | | |
|----------------------------|------------|-------|---------------------------|-------------|---------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-34944 | | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | | Batch ID: 34944 | | RunNo: 47077 | | | | | |
| Prep Date: | 11/10/2017 | | Analysis Date: 11/13/2017 | | SeqNo: 1502211 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.94 | | 1.000 | | 93.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|------------|-------|---------------------------|-------------|---------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-34944 | | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | | Batch ID: 34944 | | RunNo: 47077 | | | | | |
| Prep Date: | 11/10/2017 | | Analysis Date: 11/13/2017 | | SeqNo: 1502212 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.80 | 0.025 | 1.000 | 0 | 79.8 | 77.3 | 128 | | | |
| Toluene | 0.81 | 0.050 | 1.000 | 0 | 81.2 | 79.2 | 125 | | | |
| Ethylbenzene | 0.83 | 0.050 | 1.000 | 0 | 82.6 | 80.7 | 127 | | | |
| Xylenes, Total | 2.5 | 0.10 | 3.000 | 0 | 84.2 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 0.94 | | 1.000 | | 93.6 | 80 | 120 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 1711621

RcptNo: 1

Received By: Dennis Suazo

11/10/2017 10:00:00 AM

Completed By: Isaiah Ortiz

11/10/2017 12:37:52 PM

ISO

Reviewed By: SKE 11/10/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 2.9 | Good | Yes | | | |

| Chain-of-Custody Record | | | | Turn-Around Time: | | | |
|---|-------------------|------------------|-------------------|---|-------------------|----------|--|
| Client: <u>Safety of Environment</u> | | | | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush | | | |
| Mailing Address: <u>203 E. Clinton</u> | | | | Project Name: <u>CBR</u> | | | |
| <u>Stobbs NW 88240</u> | | | | Project #: <u>CBR-16-001</u> | | | |
| Phone #: <u>575-397-0510</u> | | | | Project Manager: <u>Allen Rob</u> | | | |
| email or Fax#: | | | | Sampler: <u>Sgt. Jerry</u> | | | |
| QA/QC Package: <input type="checkbox"/> Level 4 (Full Validation) | | | | On log: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Accreditation <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____ | | | | Sample Temperature: <u>2.8 + 0.10°C = 2.9</u> | | | |
| <input type="checkbox"/> EDD (Type) | | | | HEAL No. <u>1711621</u> | | | |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | |
| 11/07 | 1205 | S | SP-1 Baiton 4A | 1 | Fin | -001 | |
| 11/07 | 1240 | S | SP-2 Baiton 4A | 1 | 1 | -002 | |
| 11/07 | 1020 | S | SP-3 Northway 11 | 1 | 1 | -003 | |
| 11/07 | 1135 | S | SP-4 Northway 11 | 1 | 1 | -004 | |
| 11/07 | 1050 | S | SP-5 Southway 11 | 1 | 1 | -005 | |
| 11/07 | 1125 | S | SP-6 Southway 11 | 1 | 1 | -006 | |
| | | | | | | -007 | |
| | | | | | | IMO | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Relinquished by: <u>Sgt. Jerry</u> | | | | Received by: <u>Daniel King</u> | | | |
| Date: <u>11/09/17</u> | Time: <u>1500</u> | Relinquished by: | | Date: <u>11/16/17</u> | Time: <u>1000</u> | | |
| Date: | Time: | Relinquished by: | | Date: | Time: | | |

www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

| Phone #: 575-397-0510 | Project Manager: Allen Rob | | | | | |
|---|--|------------------|-------------------------|----------------------|-------------------|----------------|
| email or Fax#: | | | | | | |
| QA/QC Package: <input checked="" type="checkbox"/> Standard Accreditation <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____ <input type="checkbox"/> EDD (Type) | <input type="checkbox"/> Level 4 (Full Validation) | | | | | |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. |
| 11/07 | 1205 | S | SP-1 B&Tou 4A | 1 | Fru | 1711621 |
| 11/07 | 1240 | S | SP-2 B&Tou 4A | 1 | | -001 |
| 11/07 | 1020 | S | SP-3 Northway | 1 | | -002 |
| 11/07 | 1135 | S | SP-4 Waterbury | 1 | | -003 |
| 11/07 | 1050 | S | SP-5 Southway | 1 | | -004 |
| 11/07 | 1125 | S | SP-6 Southway | 1 | | -005 |
| | | | | | | -006 |
| | | | | | | 007 |
| | | | | | | Ino |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Relinquished by: Sse Juny | | | Received by: Deningling | | | |
| Date: 11/09/17 | Time: 1500 | | | Date: 11/18/17 | Time: 1000 | |
| Date: | Time: | Relinquished by: | | Date: | Time: | |

necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

July 02, 2018

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 06/26/18 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|--------------------------------|
| 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) |

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

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:
02-Jul-18 13:06

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|-----------------|-----------------|
| BH-1 SURFACE | H801732-01 | Soil | 25-Jun-18 10:00 | 26-Jun-18 12:00 |
| BH-1 1' | H801732-02 | Soil | 25-Jun-18 10:10 | 26-Jun-18 12:00 |
| BH-1 2' | H801732-03 | Soil | 25-Jun-18 10:20 | 26-Jun-18 12:00 |
| BH-1 3' | H801732-04 | Soil | 25-Jun-18 10:30 | 26-Jun-18 12:00 |
| BH-2 SURFACE | H801732-05 | Soil | 25-Jun-18 10:45 | 26-Jun-18 12:00 |
| BH-2 1' | H801732-06 | Soil | 25-Jun-18 10:55 | 26-Jun-18 12:00 |
| BH-2 2' | H801732-07 | Soil | 25-Jun-18 11:10 | 26-Jun-18 12:00 |
| BH-2 3' | H801732-08 | Soil | 25-Jun-18 11:20 | 26-Jun-18 12:00 |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

BH-1 SURFACE H801732-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 105 % | 69.8-142 | | 8062701 | MS | 27-Jun-18 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 89.7 % | 41-142 | | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 79.8 % | 37.6-147 | | 8062702 | MS | 27-Jun-18 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 238 | | 50.0 | mg/kg wet | 50 | B806254 | JDA | 28-Jun-18 | EPA300.0 | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

BH-1 1' H801732-02 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 104 % | 69.8-142 | | 8062701 | MS | 27-Jun-18 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 94.7 % | 41-142 | | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 82.9 % | 37.6-147 | | 8062702 | MS | 27-Jun-18 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 140 | | 10.0 | mg/kg wet | 10 | B806254 | JDA | 28-Jun-18 | EPA300.0 | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

BH-1 2' H801732-03 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 104 % | 69.8-142 | | 8062701 | MS | 27-Jun-18 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 100 % | 41-142 | | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 88.0 % | 37.6-147 | | 8062702 | MS | 27-Jun-18 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 161 | | 10.0 | mg/kg wet | 10 | B806254 | JDA | 28-Jun-18 | EPA300.0 | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

BH-1 3' H801732-04 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|--|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 104 % | 69.8-142 | | 8062701 | MS | 27-Jun-18 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|--------------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| <i>Surrogate: 1-Chlorooctane</i> | | | 89.9 % | 41-142 | | 8062702 | MS | 27-Jun-18 | 8015B | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 80.4 % | 37.6-147 | | 8062702 | MS | 27-Jun-18 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 186 | | 50.0 | mg/kg wet | 50 | B806254 | JDA | 28-Jun-18 | EPA300.0 | |
|----------|-----|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

BH-2 SURFACE

H801732-05 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

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Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|--|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 104 % | 69.8-142 | | 8062701 | MS | 27-Jun-18 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|--------------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| <i>Surrogate: 1-Chlorooctane</i> | | | 103 % | 41-142 | | 8062702 | MS | 27-Jun-18 | 8015B | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 90.5 % | 37.6-147 | | 8062702 | MS | 27-Jun-18 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 18.6 | | 10.0 | mg/kg wet | 10 | B806254 | JDA | 28-Jun-18 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

BH-2 1' H801732-06 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 105 % | 69.8-142 | | 8062701 | MS | 27-Jun-18 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 86.7 % | 41-142 | | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 77.2 % | 37.6-147 | | 8062702 | MS | 27-Jun-18 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 17.1 | | 10.0 | mg/kg wet | 10 | B806254 | JDA | 28-Jun-18 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

BH-2 2'
H801732-07 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|--|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> | | | 104 % | 69.8-142 | | 8062701 | MS | 27-Jun-18 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|--------------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| <i>Surrogate: 1-Chlorooctane</i> | | | 86.5 % | 41-142 | | 8062702 | MS | 27-Jun-18 | 8015B | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | | 77.4 % | 37.6-147 | | 8062702 | MS | 27-Jun-18 | 8015B | |

Green Analytical Laboratories
Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 15.4 | | 10.0 | mg/kg wet | 10 | B806254 | JDA | 28-Jun-18 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

BH-2 3' H801732-08 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|---------------------------------------|--------|--|-------|----------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 8062701 | MS | 27-Jun-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 105 % | 69.8-142 | | 8062701 | MS | 27-Jun-18 | 8021B | |

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|-------------------------------|-------|--|--------|----------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 94.8 % | 41-142 | | 8062702 | MS | 27-Jun-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 83.6 % | 37.6-147 | | 8062702 | MS | 27-Jun-18 | 8015B | |

Green Analytical Laboratories

Soluble (DI Water Extraction)

| | | | | | | | | | | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|
| Chloride | 19.3 | | 10.0 | mg/kg wet | 10 | B806254 | JDA | 28-Jun-18 | EPA300.0 | |
|----------|------|--|------|-----------|----|---------|-----|-----------|----------|--|

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Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-------|--------------------------------|---------------|------|-------------|------|-----------|-------|
| Batch 8062701 - Volatiles | | | | | | | | | | |
| Blank (8062701-BLK1) | | | | Prepared & Analyzed: 27-Jun-18 | | | | | | |
| 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) | 0.105 | | mg/kg | 0.100 | | 105 | 69.8-142 | | | |
| LCS (8062701-BS1) | | | | Prepared & Analyzed: 27-Jun-18 | | | | | | |
| Benzene | 1.79 | 0.050 | mg/kg | 2.00 | | 89.5 | 74.5-124 | | | |
| Toluene | 1.79 | 0.050 | mg/kg | 2.00 | | 89.7 | 78.8-122 | | | |
| Ethylbenzene | 1.80 | 0.050 | mg/kg | 2.00 | | 89.8 | 78.6-122 | | | |
| Total Xylenes | 5.65 | 0.150 | mg/kg | 6.00 | | 94.1 | 79.7-123 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.102 | | mg/kg | 0.100 | | 102 | 69.8-142 | | | |
| LCS Dup (8062701-BSD1) | | | | Prepared & Analyzed: 27-Jun-18 | | | | | | |
| Benzene | 1.75 | 0.050 | mg/kg | 2.00 | | 87.3 | 74.5-124 | 2.50 | 15.2 | |
| Toluene | 1.75 | 0.050 | mg/kg | 2.00 | | 87.7 | 78.8-122 | 2.20 | 15.1 | |
| Ethylbenzene | 1.75 | 0.050 | mg/kg | 2.00 | | 87.6 | 78.6-122 | 2.47 | 15.4 | |
| Total Xylenes | 5.48 | 0.150 | mg/kg | 6.00 | | 91.4 | 79.7-123 | 2.93 | 15.2 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.102 | | mg/kg | 0.100 | | 102 | 69.8-142 | | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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:
02-Jul-18 13:06

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

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

Batch 8062702 - General Prep - Organics

Blank (8062702-BLK1)

Prepared & Analyzed: 27-Jun-18

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | | |
| DRO >C10-C28 | 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 | 41.3 | | mg/kg | 50.0 | | 82.7 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 37.2 | | mg/kg | 50.0 | | 74.4 | 37.6-147 | | | |

LCS (8062702-BS1)

Prepared & Analyzed: 27-Jun-18

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | 170 | 10.0 | mg/kg | 200 | | 85.1 | 76.5-133 | | | |
| DRO >C10-C28 | 174 | 10.0 | mg/kg | 200 | | 86.9 | 72.9-138 | | | |
| Total TPH C6-C28 | 344 | 10.0 | mg/kg | 400 | | 86.0 | 78-132 | | | |
| Surrogate: 1-Chlorooctane | 39.8 | | mg/kg | 50.0 | | 79.6 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 37.4 | | mg/kg | 50.0 | | 74.7 | 37.6-147 | | | |

LCS Dup (8062702-BSD1)

Prepared & Analyzed: 27-Jun-18

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|------|------|--|
| GRO C6-C10 | 175 | 10.0 | mg/kg | 200 | | 87.4 | 76.5-133 | 2.75 | 20.6 | |
| DRO >C10-C28 | 179 | 10.0 | mg/kg | 200 | | 89.7 | 72.9-138 | 3.11 | 20.6 | |
| Total TPH C6-C28 | 354 | 10.0 | mg/kg | 400 | | 88.6 | 78-132 | 2.93 | 18 | |
| Surrogate: 1-Chlorooctane | 38.2 | | mg/kg | 50.0 | | 76.5 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 36.5 | | mg/kg | 50.0 | | 73.0 | 37.6-147 | | | |

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Celey D. Keene, Lab Director/Quality Manager

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:
 02-Jul-18 13:06

Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

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

Batch B806254 - General Prep - Wet Chem
Blank (B806254-BLK1)

Prepared & Analyzed: 28-Jun-18

| | | | | | | | | | | |
|----------|----|------|-----------|--|--|--|--|--|--|--|
| Chloride | ND | 10.0 | mg/kg wet | | | | | | | |
|----------|----|------|-----------|--|--|--|--|--|--|--|

LCS (B806254-BS1)

Prepared & Analyzed: 28-Jun-18

| | | | | | | | | | | |
|----------|-----|------|-----------|-----|--|------|--------|--|--|--|
| Chloride | 247 | 10.0 | mg/kg wet | 250 | | 98.7 | 85-115 | | | |
|----------|-----|------|-----------|-----|--|------|--------|--|--|--|

LCS Dup (B806254-BSD1)

Prepared & Analyzed: 28-Jun-18

| | | | | | | | | | | |
|----------|-----|------|-----------|-----|--|------|--------|-------|----|--|
| Chloride | 247 | 10.0 | mg/kg wet | 250 | | 98.9 | 85-115 | 0.158 | 20 | |
|----------|-----|------|-----------|-----|--|------|--------|-------|----|--|

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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 |

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Celey D. Keene, Lab Director/Quality Manager

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

| | | | | | | | |
|--|--|-------------------|--|-----------------|--|------------------|--|
| Company Name: Safety and Environmental Solutions | | P.O. #: | | BILL TO | | ANALYSIS REQUEST | |
| Project Manager: Bob Allen | | Company: Same | | | | | |
| Address: 703 East Clinton, PO Box 1613 | | Attn: | | | | | |
| City: Hobbs | | Address: | | | | | |
| State: NM Zip: 88240 | | City: | | | | | |
| Phone #: 575 397-0510 Fax #: 575 393-4388 | | State: Zip: | | | | | |
| Project #: CBE-16-001 Project Owner: | | Phone #: | | | | | |
| Project Name: | | Fax #: | | | | | |
| Project Location: | | | | | | | |
| Sample Name: | | | | | | | |
| FOR LAB USE ONLY | | | | | | | |
| Lab I.D. | | Sample I.D. | | | | | |
| H801732 | | (G)RAB OR (C)OMP. | | | | | |
| | | # CONTAINERS | | | | | |
| | | GROUNDWATER | | | | | |
| | | WASTEWATER | | | | | |
| | | SOIL | | | | | |
| | | OIL | | | | | |
| | | SLUDGE | | | | | |
| | | OTHER : | | | | | |
| | | ACID/BASE: | | | | | |
| | | ICE / COOL | | | | | |
| | | OTHER : | | | | | |
| | | DATE | | | | | |
| | | TIME | | | | | |
| 1 BH-1 Surface | | X | | TPH | | | |
| 2 BH-1 15' | | X | | BTEX | | | |
| 3 BH-1 20' | | X | | Chlorides (300) | | | |
| 4 BH-1 35' | | | | | | | |
| 5 BH-2 Surface | | | | | | | |
| 6 BH-2 10' | | | | | | | |
| 7 BH-2 20' | | | | | | | |
| 8 BH-2 35' | | | | | | | |

Appendix B

Site Photos

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















Cross Border Resources
Sunray State Tank Battery
11-9-17





Cross Border Resources
Sunray State Tank Battery
6-20-2018





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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

| | | |
|--|--------------------------------------|----------------------|
| Name of Company Cross Border Resources | Contact Ross Pearson | |
| Address 2515 McKinney Avenue Suite 900 | Telephone No. 214-871-0400 ext. 1019 | |
| Facility Name Sunray State Battery | Facility Type Tank Battery | |
| 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 |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| F | 16 | 8S | 31E | 1980' | North | 1650' | West | Chaves |

Latitude 33.6217 Longitude -103.7831

NATURE OF RELEASE

| | | |
|--|---|---------------------------------------|
| Type 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 |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If 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 marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | | | |
|--|--|---------------------------------------|-----------------------------------|
| Signature:  | | OIL CONSERVATION DIVISION | |
| Printed Name: Alan Barksdale | | Approved by Environmental Specialist: | |
| Title: Chairman | | Approval Date: | Expiration Date: |
| E-mail Address: alan@redmountainresources.com | | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 4/13/2015 Phone: 214-871-0400 | | | |

* Attach Additional Sheets If Necessary