

1R - 427-362

REPORTS

DATE:

8-7-13

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 8241

August 7th, 2013

Mr. Edward Hansen

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau

1220 S. St. Francis Drive

Santa Fe, New Mexico 87505

**RE: ICP Report and Termination Request
Rice Operating Company – EME SWD System
EME C-5 EOL (1R427-362): UL/C sec. 5 T21S R36E**

Mr. Hansen:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site in the EME Salt Water Disposal (SWD) system. ROC is the service provider (agent) for the EME SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background and Previous Work

The site is located approximately 7 miles south of Monument, New Mexico at UL/C sec. 5 T21S R36E as shown on the Site Location Maps (Figure 1 & 2). Groundwater at this site is located approximately 180 +/- feet below ground surface (bgs).

In 2011, ROC initiated work on the former EME C-5 EOL junction box. The site was delineated using a backhoe to form a 25 ft x 15 ft x 12 ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. From the excavation, the four-wall composite, the bottom composite and the blended backfill were taken to a commercial laboratory for analysis. Laboratory tests of the four-wall composite showed a chloride reading of 304 mg/kg, a gasoline range organics (GRO) reading of non-detect and a diesel range organics (DRO) reading of 50.7 mg/kg. The bottom composite showed a chloride laboratory reading of 912 mg/kg, a GRO reading of non-detect and a DRO reading of 73.7 mg/kg. The blended backfill showed a chloride laboratory reading of 256 mg/kg, and GRO reading of non-detect and a DRO reading of 31.5 mg/kg. The site was backfilled with the blended soil and the area was contoured to the surrounding landscape. A total of 72 yards of blended soil was taken to a NMOCD

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approved facility for disposal. On December 28th, 2011, the site was seeded with a blend of native vegetation. NMOCD was notified of potential groundwater impact on April 9th, 2012 and a junction box disclosure report was submitted to NMOCD with all the 2011 junction box closures and disclosures.

On June 24th, 2013, ROC submitted an Investigation and Characterization Plan (ICP) to NMOCD, which was approved on July 2nd, 2013. As part of the ICP, two soil bores were installed at the site on July 25th, 2013 (Figure 3). As the bores were being advanced, soil samples were taken at regular intervals and field tested for chlorides and hydrocarbons. Representative samples from each bore were taken to a commercial laboratory for analysis. SB-1 returned laboratory chloride values of 128 mg/kg at 15 ft and 20 ft bgs, while SB-2 returned chloride values of 496 mg/kg at 10 ft bgs and 128 mg/kg at 25 ft bgs. GRO readings were non-detect in both bores at all depths. DRO readings in SB-1 returned results of 21.5 mg/kg at 15 ft bgs and 17 mg/kg at 20 ft bgs, while DRO reading in SB-2 returned results of non-detect (Appendix A).

Given, the low levels of chlorides and hydrocarbons in the soil bores and depth to groundwater, it is evident that the residual constituents in the vadose zone will not it anyway affect groundwater beneath the site. Since, the former junction box site is located on an active lease pad, seeding of the site is not warranted (Appendix B). Therefore, ROC respectfully requests 'remediation termination' or similar closure status of the site.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,



Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Geographical Location Map
- Figure 3 – Soil Bore Installation Map
- Appendix A – Soil Bore Installation Documentation
- Appendix B – Site Photos



Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Site Location Map

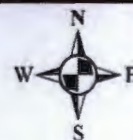


EME C-5 EOL

LEGALS: UL/C sec. 5
T-21-S R-36-E
LEA COUNTY, NM

NMOCD CASE #: 1R427-362

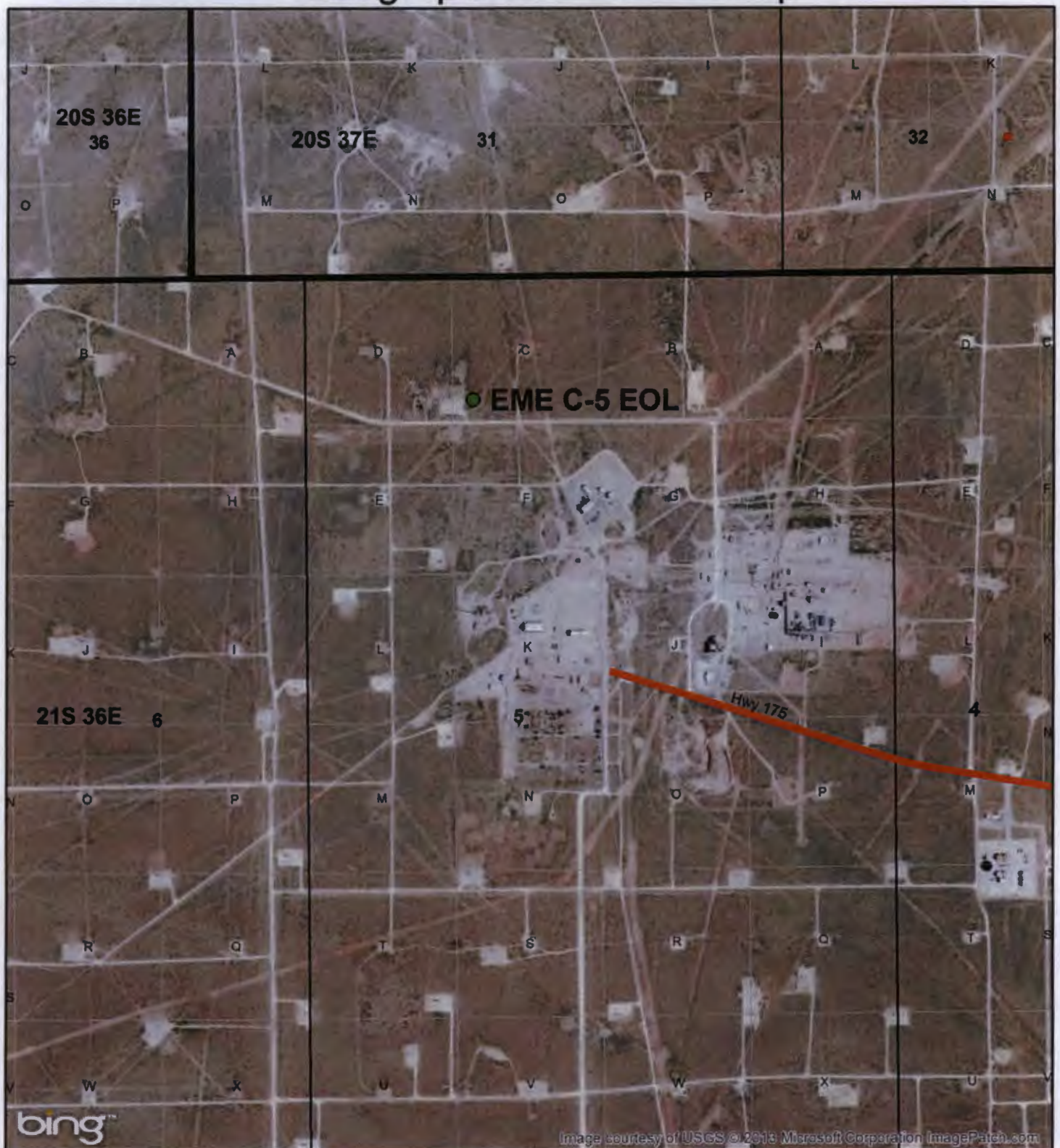
Figure 1



0 1 2
Miles

Drawing date: 3/4/13
Drafted by: L. Weinheimer

Geographical Location Map

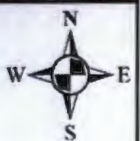


EME C-5 EOL

LEGALS: UL/C sec. 5
T-21-S R-36-E
LEA COUNTY, NM

NMOCD CASE #: 1R427-362

Figure 2



0 0.2 0.4
Miles

Drawing date: 6/20/13
Drafted by: L. Weinheimer

Soil Bore Installation

| Depth | CI- | PID | SB-1 | | |
|-------|-----|-----|---------|-----|------|
| | | | LAB CI- | GRO | DRO |
| 15 | 149 | 0.5 | 128 | <10 | 21.5 |
| 20 | 150 | 0.6 | 128 | <10 | 17 |

Legend

- EME SOIL BORES
- X PIPE END
- X FORMER JCT. BOX SITE
- BURIED 3 IN STEEL DEAD @ 1FT
- - - LINEFINDER HIT
- · - UNMARKED ROW
- SURFACE STEEL PIPELINE
- PRODUCTION HEADER- DEAD
- PAD
- ABANDONED TANK
- TREATER ABANDONED
- TREATER BASE

| Depth | CI- | PID | SB-2 | | |
|-------|-----|-----|---------|-----|-----|
| | | | LAB CI- | GRO | DRO |
| SS | 119 | 1.1 | | | |
| 5 | 115 | 1.3 | | | |
| 10 | 410 | 1.5 | 496 | <10 | <10 |
| 15 | 294 | 0.3 | | | |
| 20 | 256 | 0.2 | | | |
| 25 | 141 | 0.1 | 128 | <10 | <10 |

DGW = 180 ft

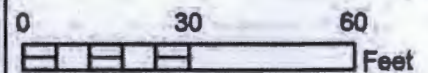


EME C-5 EOL

LEGALS: UL/C sec. 5
T-21-S R-36-E
LEA COUNTY, NM

NMOCD CASE #: 1R427-362

Figure 3



Drawing date: 7/29/13
Drafted by: L. Weinheimer



Appendix A

Soil Bore Installation Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

| Logger: | Edward Cesareo | | | | | |
|--|-------------------------|---|-----|-------------|-----------|-------------------|
| Driller: | Harrison & Cooper, Inc. | | | | | |
| Drilling Method: | Air Rotary | | | | | |
| Start Date: | 7/25/2013 | | | | | |
| End Date: | 7/25/2013 | Project Name: EME C-5 EOL Well ID: SB-1 Project Consultant: RECS | | | | |
| Comments: SB-1 is located 10 ft east of the former junction box site. All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 20 ft GW = 162 ft | | Location: UL/C sec. 5 T21S R36E Lat: 32°31'9.213"N County: Lea Long: 103°17'28.395"W State: NM | | | | |
| Depth (feet) | Chloride field tests | LAB | PID | Description | Lithology | Well Construction |
| | | | | REGOLITH | | |
| SS | | | | | | |
| | | | | | | |
| 5 ft | | | | | | |
| | | | | | | |
| 10 ft | | | | | | |
| | | | | TAN SAND | | |
| 15 ft | 149 | CI-128 | 0.5 | | | |
| | | GRO <10 | | | | |
| | | DRO 21.5 | | | | |
| 20 ft | 150 | CI-128 | 0.6 | | | |
| | | GRO <10 | | | | |
| | | DRO 17 | | | | |

| | | | | |
|--|-------------------------|---|----------------------|--|
| Logger: | Edward Cesareo | | | |
| Driller: | Harrison & Cooper, Inc. | | | |
| Drilling Method: | Air Rotary | | Project Name: | Well ID: |
| Start Date: | 7/25/2013 | | EME C-5 EOL | SB-2 |
| End Date: | 7/25/2013 | Project Consultant: RECS | | Location: UL/C sec. 5 T21S R36E |
| Comments: SB-2 is located 15 ft south of the former junction box site. All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 20 ft GW = 162 ft | | Lat: 32°31'9.091"N County: Lea Long: 103°17'28.504"W State: NM | | |

| Depth (feet) | Chloride field tests | LAB | PID | Description | Lithology | Well Construction |
|--------------|----------------------|---------|-----|-------------|-----------|-------------------|
| | | | | BROWN SAND | | |
| SS | 119 | | 1.1 | | | |
| | | | | | | |
| | | | | CALICHE | | |
| 5 ft | 115 | | 1.3 | | | |
| | | | | | | |
| 10 ft | 410 | CI-496 | 1.5 | | | |
| | | GRO <10 | | | | |
| | | DRO <10 | | | | |
| 15 ft | 294 | | 0.3 | TAN SAND | | |
| | | | | | | |
| | | | | | | |
| 20 ft | 256 | | 0.2 | | | |
| | | | | | | |
| | | | | | | |
| 25 ft | 141 | CI-128 | 0.1 | | | |
| | | GRO <10 | | | | |
| | | DRO <10 | | | | |



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

July 29, 2013

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EME C-5 EOL

Enclosed are the results of analyses for samples received by the laboratory on 07/26/13 9:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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:

RICE ENVIRONMENTAL CONSULTING & SAFETY
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 07/26/2013
Reported: 07/29/2013
Project Name: EME C-5 EOL
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SB #1 @ 15' (H301759-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 07/29/2013 | ND | 400 | 100 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/26/2013 | ND | 188 | 93.9 | 200 | 7.00 | |
| DRO >C10-C28 | 21.5 | 10.0 | 07/26/2013 | ND | 195 | 97.4 | 200 | 9.12 | |

Surrogate: 1-Chlorooctane 80.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Sample ID: SB #1 @ 20' (H301759-02)

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 128 | 16.0 | 07/29/2013 | ND | 400 | 100 | 400 | 3.92 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/26/2013 | ND | 188 | 93.9 | 200 | 7.00 | |
| DRO >C10-C28 | 17.0 | 10.0 | 07/26/2013 | ND | 195 | 97.4 | 200 | 9.12 | |

Surrogate: 1-Chlorooctane 78.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 07/26/2013
Reported: 07/29/2013
Project Name: EME C-5 EOL
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SB #2 @ 10' (H301759-03)

| Chloride, SM4500CI-B | | mg/kg | Analyzed By: AP | | | | | | |
|-------------------------------|------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 496 | 16.0 | 07/29/2013 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/26/2013 | ND | 188 | 93.9 | 200 | 7.00 | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/26/2013 | ND | 195 | 97.4 | 200 | 9.12 | |
| Surrogate: 1-Chlorooctane | 76.2 % | 65.2-140 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.0 % | 63.6-154 | | | | | | | |

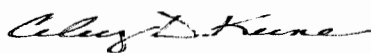
Sample ID: SB #2 @ 25' (H301759-04)

| Chloride, SM4500CI-B | | mg/kg | Analyzed By: AP | | | | | | |
|-------------------------------|------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 07/29/2013 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/26/2013 | ND | 188 | 93.9 | 200 | 7.00 | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/26/2013 | ND | 195 | 97.4 | 200 | 9.12 | |
| Surrogate: 1-Chlorooctane | 84.4 % | 65.2-140 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 106 % | 63.6-154 | | | | | | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

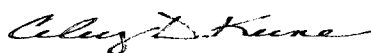
Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 5 of 5

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------|--|-------------------------|--|--------------|--|--|--|------------------------------------|--|---------------------|--|---------------------|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: <u>ROC</u> | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>Kyle Norman</u> | | P.O. #: | | | | | | | | | | | | | | | | | | | | | | | |
| Address: | | Company: | | | | | | | | | | | | | | | | | | | | | | | |
| City: State: Zip: | | Attn: | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: Fax #: | | Address: | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: Project Owner: | | City: | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: | | State: Zip: | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: <u>EME C-5 EOL T-215 R-36E</u> | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: <u>Kyle Schnaidt</u> | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | | Sample I.D. | | (G)RAB OR (C)OMP. | | # CONTAINERS | | MATRIX | | PRESERV. | | SAMPLING | | | | | | | | | | | | | |
| | | | | | | | | GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: | | ACID/BASE: ICE / COOL OTHER: | | DATE TIME | | | | | | | | | | | | | |
| <u>H301759</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>1 SB#1 @ 15'</u> | | | | <u>1</u> | | | | <u>X</u> | | <u>X</u> | | <u>7-25-13 2:00</u> | | <u>X</u> <u>TPH</u> | | | | | | | | | | | |
| <u>2 SB#1 @ 20'</u> | | | | <u>1</u> | | | | <u>X</u> | | <u>X</u> | | <u>7-25-13 2:05</u> | | <u>X</u> <u>X</u> | | | | | | | | | | | |
| <u>3 SB2 @ 10'</u> | | | | <u>1</u> | | | | <u>X</u> | | <u>X</u> | | <u>7-25-13 3:20</u> | | <u>X</u> <u>X</u> | | | | | | | | | | | |
| <u>4 SB2 @ 25'</u> | | | | <u>1</u> | | | | <u>X</u> | | <u>X</u> | | <u>7-25-13 3:25</u> | | <u>X</u> <u>X</u> | | | | | | | | | | | |

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| | | | | | | | | | |
|--|--|----------------------|--|---|--|--|--|----------------|--|
| Relinquished By: <u>Kyle Schnaidt</u> | | Date: <u>7/26/13</u> | | Received By: <u>[Signature]</u> | | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Add'l Phone #: | |
| Time: <u>9:11</u> | | | | | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Add'l Fax #: | |
| Relinquished By: | | Date: | | Received By: | | REMARKS: | | | |
| Time: | | | | | | <u>hcondor@rice-ecs.com</u> <u>Knorman@rice-ecs.com</u> <u>jkanplan@rice-ecs.com</u> <u>Kschnaidt@rice-ecs.com</u> <u>lweinheimer@rice-ecs.com</u> | | | |
| Delivered By: (Circle One) | | | | Sample Condition | | CHECKED BY: | | | |
| Sampler - UPS - Bus - Other: <u>-0.2°C</u> | | | | Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | (Initials) <u>cdh</u> | | | |

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



Appendix B

Site Photo

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

EME C-5 EOL (1R427-362)

UL/C sec. 5 T-21-S R-36-E



Collecting sample from SB-1, facing north (Abandoned Facility in Background) 7/25/13



Drilling SB-1, facing south (Abandoned Facility in Foreground)

7/25/13