

AP – 060

**ANNUAL GW
MONITOR REPORT**

DATE:

2006



Whole Earth Environmental, Inc.

2103 Arbor Cove
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281.394.2050
whearth@msn.com

AP-60
Annual GW Mon Report
2006

March 19, 2007

NMOCD
1220 South St. Francis Drive
Sante Fe, NM 87505

Attn: Wayne Price

**Re: 2006 Monitor Well Report / Sampling Summary
Junction K-33-1, EME SWD System
Unit "K", Sec. 33, T-19-S, R-37 E
NMOCD Case # AP-60**

Dear Mr. Price:

Enclosed, please find the 2006 Annual Ground Water Monitoring Report for the K-33-1 site within the EME Salt Water Disposal System. The report includes the following information:

- Summary Tables of all laboratory results and depths to ground water
- Graphs of chloride concentrations over time
- Laboratory analytical reports
- CD version of the above

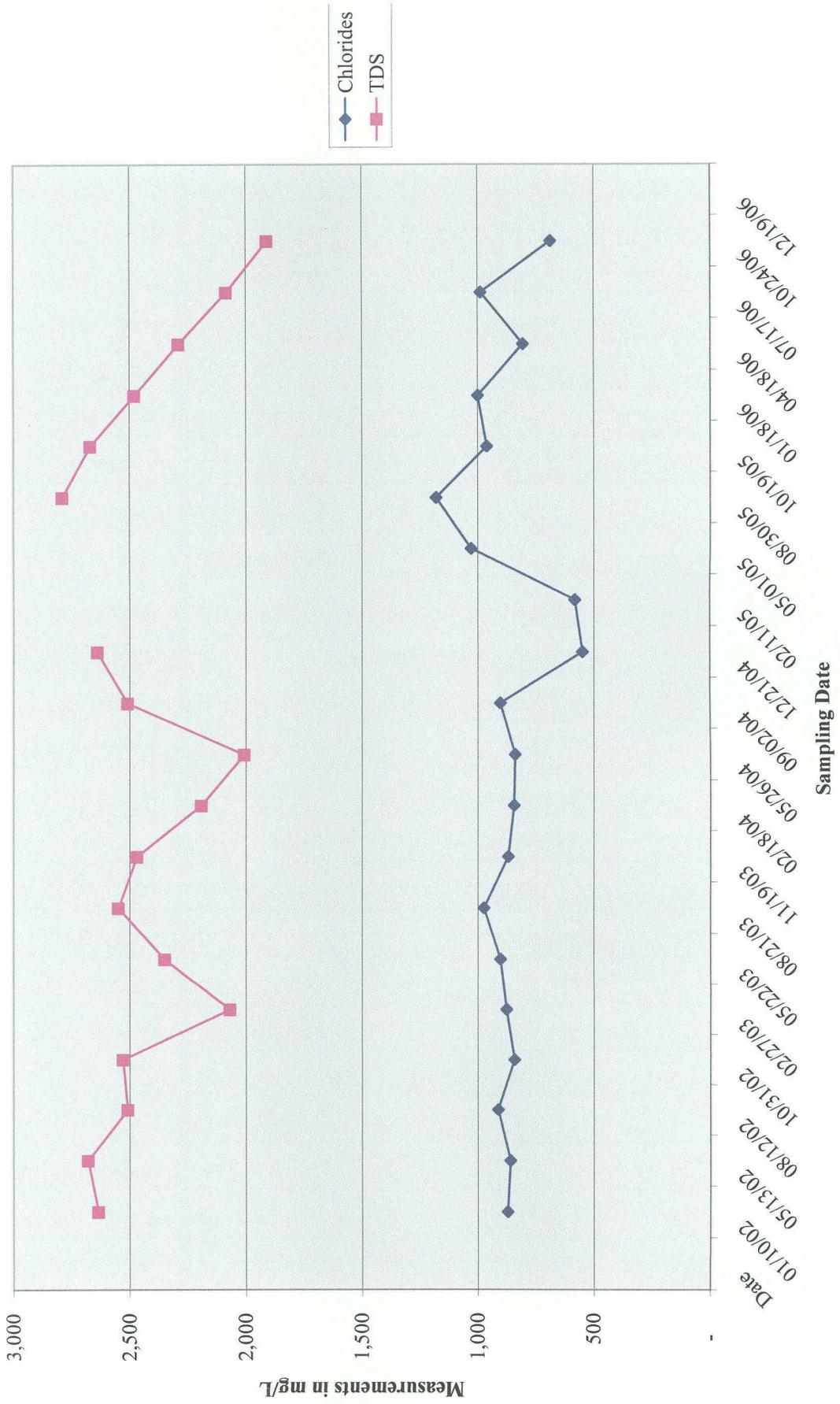
During the course of the year, two additional delineation wells were advanced confirming that the chloride concentrations within the individual well bores were at equilibrium with background. A final closure request was submitted to the NMOCD on December 28.

Thank you again for your interest in this project; if you've any questions or comments, please do not hesitate to get in touch with me or Kristin Pope at 505.393.9174

Warmest personal regards,

Mike Griffin
President
Whole Earth Environmental, Inc.

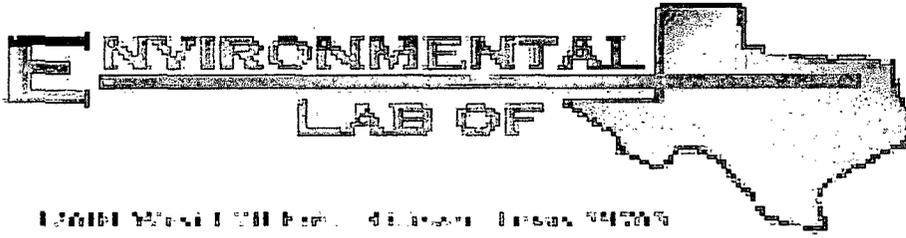
K-33-1 MW-1



Rice Operating Company
EME Junction K-33-1
NMOCD Case 1RO 427-92 AP-60
Unit 'K', Sec. 33, T19S, R37E

| MW # | Depth to Water (Ft.) | Total Depth (Ft.) | Well Volume (Gal.) | Volume (gal.) | Sample Date | Chlorides | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylene | Sulfate |
|------|----------------------|-------------------|--------------------|---------------|-------------|-----------|-------|---------|---------|---------------|--------------|---------|
| 1 | 36.90 | 41.00 | 0.70 | 2.00 | 01/10/02 | 872 | 2,635 | <0.002 | <0.002 | <0.002 | <0.006 | 344 |
| 1 | 36.88 | 40.78 | 0.62 | 2.90 | 05/13/02 | 860 | 2,680 | <1.00 | <1.00 | <1.00 | <2.00 | 346 |
| 1 | 37.20 | 40.79 | 0.57 | 1.75 | 08/12/02 | 913 | 2,510 | <0.001 | <0.001 | <0.001 | <0.002 | 292 |
| 1 | 37.11 | 40.77 | 0.59 | 1.75 | 10/31/02 | 842 | 2,530 | <0.001 | <0.001 | <0.001 | <0.002 | 310 |
| 1 | 37.10 | 40.77 | 0.58 | 1.70 | 02/27/03 | 877 | 2,070 | <0.001 | <0.001 | <0.001 | 0.001 | 305 |
| 1 | 31.10 | 41.20 | 1.62 | 4.80 | 05/22/03 | 904 | 2,350 | <0.001 | <0.001 | <0.001 | <0.002 | 264 |
| 1 | 37.29 | 40.04 | 0.44 | 1.32 | 08/21/03 | 975 | 2,550 | <0.001 | <0.001 | <0.001 | <0.002 | 274 |
| 1 | 37.40 | 40.78 | 0.54 | 1.60 | 11/19/03 | 869 | 2,470 | <0.001 | <0.001 | <0.001 | <0.002 | 282 |
| 1 | 37.40 | 40.75 | 0.54 | 1.60 | 02/18/04 | 844 | 2,192 | <0.002 | <0.002 | <0.002 | <0.006 | 43 |
| 1 | 37.30 | 40.75 | 0.55 | 2.00 | 05/26/04 | 840 | 2,008 | <0.002 | <0.002 | <0.002 | <0.006 | 113 |
| 1 | 37.12 | 41.00 | | 2.00 | 09/02/04 | 904 | 2,510 | <0.001 | <0.001 | <0.001 | <0.001 | 304 |
| 1 | 32.91 | 41.00 | | 4.05 | 12/21/04 | 550 | 2,640 | <0.001 | <0.001 | <0.001 | <0.001 | 216 |
| 1 | | | | | 02/11/05 | 582 | | | | | | |
| 1 | | | | | 05/01/05 | 1,030 | | | | | | |
| 1 | | | | | 08/30/05 | 1,180 | 2,790 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 1 | 32.15 | 41.00 | 1.40 | 5.00 | 10/19/05 | 961 | 2,670 | <0.001 | <0.001 | <0.001 | <0.001 | 276 |
| 1 | 31.10 | 41.00 | 1.60 | 6.00 | 01/18/06 | 1,000 | 2,480 | <0.001 | <0.001 | <0.001 | <0.001 | 264 |
| 1 | 31.10 | 41.00 | 1.60 | 6.00 | 04/18/06 | 805 | 2,290 | <0.001 | <0.001 | <0.001 | <0.001 | 207 |
| 1 | 31.73 | 41.00 | 1.50 | 8.00 | 07/17/06 | 988 | 2,085 | <0.001 | <0.001 | <0.001 | <0.001 | 298 |
| 1 | | | | | 10/24/06 | 686 | 1,910 | <0.001 | <0.001 | <0.001 | <0.001 | 283 |
| 1 | | | | | 12/19/06 | | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2 | | | | | 10/24/06 | 692 | 1,900 | <0.001 | <0.001 | <0.001 | <0.001 | 237 |
| 3 | | | | | 10/24/06 | 687 | 2,100 | <0.001 | <0.001 | <0.001 | <0.001 | 306 |

All concentrations are in mg/L



Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. K-33-1

Project Number: None Given

Location: T19S R37E Sec. 33 K- Lea County, NM

Lab Order Number: 6L07009

Report Date: 12/19/06

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------------|---------------|--------|----------------|------------------|
| Monitor Well #3 | 6L07009-01 | Water | 12/06/06 15:45 | 12-07-2006 10:50 |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|---------------|----------|---------|----------|----------|-----------|-------|
| Monitor Well #3 (6L07009-01) Water | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | 1 | EL61404 | 12/14/06 | 12/18/06 | EPA 8021B | |
| Toluene | ND | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | <i>98.5 %</i> | <i>80-120</i> | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | <i>82.0 %</i> | <i>80-120</i> | | " | " | " | " | |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EL61404 - EPA 5030C (GC)

Blank (EL61404-BLK1)

Prepared & Analyzed: 12/14/06

| | | | | | | | | | | |
|---|------|---------|------|------|--|------|--------|--|--|--|
| Benzene | ND | 0.00100 | mg/L | | | | | | | |
| Toluene | ND | 0.00100 | " | | | | | | | |
| Ethylbenzene | ND | 0.00100 | " | | | | | | | |
| Xylene (p/m) | ND | 0.00100 | " | | | | | | | |
| Xylene (o) | ND | 0.00100 | " | | | | | | | |
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | 45.2 | | ug/l | 40.0 | | 113 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 34.5 | | " | 40.0 | | 86.2 | 80-120 | | | |

LCS (EL61404-BS1)

Prepared & Analyzed: 12/14/06

| | | | | | | | | | | |
|---|--------|---------|------|--------|--|------|--------|--|--|--|
| Benzene | 0.0423 | 0.00100 | mg/L | 0.0500 | | 84.6 | 80-120 | | | |
| Toluene | 0.0430 | 0.00100 | " | 0.0500 | | 86.0 | 80-120 | | | |
| Ethylbenzene | 0.0426 | 0.00100 | " | 0.0500 | | 85.2 | 80-120 | | | |
| Xylene (p/m) | 0.0962 | 0.00100 | " | 0.100 | | 96.2 | 80-120 | | | |
| Xylene (o) | 0.0469 | 0.00100 | " | 0.0500 | | 93.8 | 80-120 | | | |
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | 37.6 | | ug/l | 40.0 | | 94.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 32.8 | | " | 40.0 | | 82.0 | 80-120 | | | |

Calibration Check (EL61404-CCV1)

Prepared: 12/14/06 Analyzed: 12/15/06

| | | | | | | | | | | |
|---|------|--|------|------|--|-----|--------|--|--|--|
| Benzene | 54.4 | | ug/l | 50.0 | | 109 | 80-120 | | | |
| Toluene | 55.1 | | " | 50.0 | | 110 | 80-120 | | | |
| Ethylbenzene | 59.3 | | " | 50.0 | | 119 | 80-120 | | | |
| Xylene (p/m) | 116 | | " | 100 | | 116 | 80-120 | | | |
| Xylene (o) | 58.7 | | " | 50.0 | | 117 | 80-120 | | | |
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | 47.9 | | " | 40.0 | | 120 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 40.0 | | " | 40.0 | | 100 | 80-120 | | | |

Matrix Spike (EL61404-MS1)

Source: 6L05006-10

Prepared: 12/14/06 Analyzed: 12/18/06

| | | | | | | | | | | |
|---|--------|---------|------|--------|----|------|--------|--|--|--|
| Benzene | 0.0402 | 0.00100 | mg/L | 0.0500 | ND | 80.4 | 80-120 | | | |
| Toluene | 0.0407 | 0.00100 | " | 0.0500 | ND | 81.4 | 80-120 | | | |
| Ethylbenzene | 0.0487 | 0.00100 | " | 0.0500 | ND | 97.4 | 80-120 | | | |
| Xylene (p/m) | 0.0853 | 0.00100 | " | 0.100 | ND | 85.3 | 80-120 | | | |
| Xylene (o) | 0.0444 | 0.00100 | " | 0.0500 | ND | 88.8 | 80-120 | | | |
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | 32.6 | | ug/l | 40.0 | | 81.5 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 38.7 | | " | 40.0 | | 96.8 | 80-120 | | | |

Rice Operating Co.
 122 W. Taylor
 Hobbs NM, 88240

Project: EME Jct. K-33-1
 Project Number: None Given
 Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|--|------|-------------|------|-----------|-------|
| Batch EL61404 - EPA 5030C (GC) | | | | | | | | | | |
| Matrix Spike Dup (EL61404-MSD1) | | Source: 6L05006-10 | | | Prepared: 12/14/06 Analyzed: 12/18/06 | | | | | |
| Benzene | 0.0422 | 0.00100 | mg/L | 0.0500 | ND | 84.4 | 80-120 | 4.85 | 20 | |
| Toluene | 0.0446 | 0.00100 | " | 0.0500 | ND | 89.2 | 80-120 | 9.14 | 20 | |
| Ethylbenzene | 0.0464 | 0.00100 | " | 0.0500 | ND | 92.8 | 80-120 | 4.84 | 20 | |
| Xylene (p/m) | 0.102 | 0.00100 | " | 0.100 | ND | 102 | 80-120 | 17.8 | 20 | |
| Xylene (o) | 0.0513 | 0.00100 | " | 0.0500 | ND | 103 | 80-120 | 14.8 | 20 | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | 38.2 | | ug/l | 40.0 | | 95.5 | 80-120 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 37.7 | | " | 40.0 | | 94.2 | 80-120 | | | |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 12/19/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

Client: RVA Op.
 Date/ Time: 12/17/06 10:50
 Lab ID #: EL07009
 Initials: CK

Sample Receipt Checklist

| | | | | Client initials |
|-----|--|----------------|----|---------------------------|
| #1 | Temperature of container/ cooler? | Yes | No | -200 °C |
| #2 | Shipping container in good condition? | Yes | No | |
| #3 | Custody Seals intact on shipping container/ cooler? | Yes | No | Not Present |
| #4 | Custody Seals intact on sample bottles/ container? | Yes | No | Not Present |
| #5 | Chain of Custody present? | Yes | No | |
| #6 | Sample instructions complete of Chain of Custody? | Yes | No | |
| #7 | Chain of Custody signed when relinquished/ received? | Yes | No | |
| #8 | Chain of Custody agrees with sample label(s)? | Yes | No | ID written on Cont./ Lid |
| #9 | Container label(s) legible and intact? | Yes | No | Not Applicable |
| #10 | Sample matrix/ properties agree with Chain of Custody? | Yes | No | |
| #11 | Containers supplied by EL0T? | Yes | No | |
| #12 | Samples in proper container/ bottle? | Yes | No | See Below |
| #13 | Samples properly preserved? | Yes | No | See Below |
| #14 | Sample bottles intact? | Yes | No | |
| #15 | Preservations documented on Chain of Custody? | Yes | No | |
| #16 | Containers documented on Chain of Custody? | Yes | No | |
| #17 | Sufficient sample amount for indicated test(s)? | Yes | No | See Below |
| #18 | All samples received within sufficient hold time? | Yes | No | See Below |
| #19 | Subcontract of sample(s)? | Yes | No | Not Applicable |
| #20 | VOC samples have zero headspace? | Yes | No | Not Applicable |

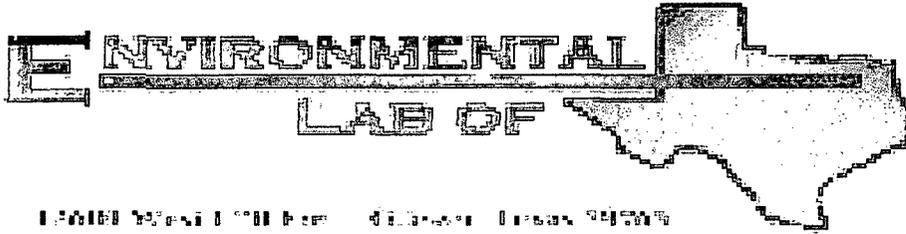
Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event



Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. K-33-1

Project Number: None Given

Location: T19S-R37E-Sec33K, Lea Co., NM

Lab Order Number: 6J12016

Report Date: 10/24/06

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------------|---------------|--------|----------------|------------------|
| Monitor Well #1 | 6J12016-01 | Water | 10/12/06 10:15 | 10-12-2006 16:00 |
| Monitor Well #2 | 6J12016-02 | Water | 10/12/06 09:05 | 10-12-2006 16:00 |
| Monitor Well #3 | 6J12016-03 | Water | 10/12/06 11:10 | 10-12-2006 16:00 |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| Monitor Well #1 (6J12016-01) Water | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | 1 | EJ61608 | 10/16/06 | 10/16/06 | EPA 8021B | |
| Toluene | ND | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 85.2 % | 80-120 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 86.5 % | 80-120 | | " | " | " | " | |
| Monitor Well #2 (6J12016-02) Water | | | | | | | | | |
| Benzene | 0.00340 | 0.00100 | mg/L | 1 | EJ61608 | 10/16/06 | 10/16/06 | EPA 8021B | |
| Toluene | 0.00405 | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 83.0 % | 80-120 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 83.2 % | 80-120 | | " | " | " | " | |
| Monitor Well #3 (6J12016-03) Water | | | | | | | | | |
| Benzene | ND | 0.00100 | mg/L | 1 | EJ61608 | 10/16/06 | 10/16/06 | EPA 8021B | |
| Toluene | J [0.000862] | 0.00100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.00100 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.00100 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 84.2 % | 80-120 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 88.0 % | 80-120 | | " | " | " | " | |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|---------|----------|----------|------------|-------|
| Monitor Well #1 (6J12016-01) Water | | | | | | | | | |
| Total Alkalinity | 292 | 2.00 | mg/L | 1 | EJ61311 | 10/13/06 | 10/13/06 | EPA 310.1M | |
| Chloride | 686 | 25.0 | " | 50 | EJ61403 | 10/19/06 | 10/19/06 | EPA 300.0 | |
| Total Dissolved Solids | 1910 | 10.0 | " | 1 | EJ61404 | 10/14/06 | 10/15/06 | EPA 160.1 | |
| Sulfate | 283 | 25.0 | " | 50 | EJ61403 | 10/19/06 | 10/19/06 | EPA 300.0 | |
| Monitor Well #2 (6J12016-02) Water | | | | | | | | | |
| Total Alkalinity | 285 | 2.00 | mg/L | 1 | EJ61311 | 10/13/06 | 10/13/06 | EPA 310.1M | |
| Chloride | 692 | 12.5 | " | 25 | EJ61403 | 10/19/06 | 10/19/06 | EPA 300.0 | |
| Total Dissolved Solids | 1900 | 10.0 | " | 1 | EJ61404 | 10/14/06 | 10/15/06 | EPA 160.1 | |
| Sulfate | 237 | 12.5 | " | 25 | EJ61403 | 10/19/06 | 10/19/06 | EPA 300.0 | |
| Monitor Well #3 (6J12016-03) Water | | | | | | | | | |
| Total Alkalinity | 306 | 2.00 | mg/L | 1 | EJ61311 | 10/13/06 | 10/13/06 | EPA 310.1M | |
| Chloride | 687 | 25.0 | " | 50 | EJ61403 | 10/19/06 | 10/19/06 | EPA 300.0 | |
| Total Dissolved Solids | 2100 | 10.0 | " | 1 | EJ61404 | 10/14/06 | 10/15/06 | EPA 160.1 | |
| Sulfate | 296 | 25.0 | " | 50 | EJ61403 | 10/19/06 | 10/19/06 | EPA 300.0 | |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Monitor Well #1 (6J12016-01) Water | | | | | | | | | |
| Calcium | 209 | 4.05 | mg/L | 50 | EJ61604 | 10/13/06 | 10/16/06 | EPA 6010B | |
| Magnesium | 99.6 | 1.80 | " | " | " | " | " | " | |
| Potassium | 15.2 | 0.600 | " | 10 | " | " | " | " | |
| Sodium | 246 | 2.15 | " | 50 | " | " | " | " | |
| Monitor Well #2 (6J12016-02) Water | | | | | | | | | |
| Calcium | 213 | 4.05 | mg/L | 50 | EJ61604 | 10/13/06 | 10/16/06 | EPA 6010B | |
| Magnesium | 106 | 1.80 | " | " | " | " | " | " | |
| Potassium | 14.2 | 0.600 | " | 10 | " | " | " | " | |
| Sodium | 250 | 2.15 | " | 50 | " | " | " | " | |
| Monitor Well #3 (6J12016-03) Water | | | | | | | | | |
| Calcium | 231 | 4.05 | mg/L | 50 | EJ61604 | 10/13/06 | 10/16/06 | EPA 6010B | |
| Magnesium | 108 | 1.80 | " | " | " | " | " | " | |
| Potassium | 16.1 | 0.600 | " | 10 | " | " | " | " | |
| Sodium | 261 | 2.15 | " | 50 | " | " | " | " | |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Organics by GC - Quality Control
Environmental Lab of Texas**

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

Batch EJ61608 - EPA 5030C (GC)

Blank (EJ61608-BLK1)

Prepared: 10/16/06 Analyzed: 10/17/06

| | | | | | | | | | | |
|-----------------------------------|------|---------|------|------|--|------|--------|--|--|--|
| Benzene | ND | 0.00100 | mg/L | | | | | | | |
| Toluene | ND | 0.00100 | " | | | | | | | |
| Ethylbenzene | ND | 0.00100 | " | | | | | | | |
| Xylene (p/m) | ND | 0.00100 | " | | | | | | | |
| Xylene (o) | ND | 0.00100 | " | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 32.4 | | ug/l | 40.0 | | 81.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 33.9 | | " | 40.0 | | 84.8 | 80-120 | | | |

LCS (EJ61608-BS1)

Prepared: 10/16/06 Analyzed: 10/17/06

| | | | | | | | | | | |
|-----------------------------------|--------|---------|------|--------|--|------|--------|--|--|--|
| Benzene | 0.0482 | 0.00100 | mg/L | 0.0500 | | 96.4 | 80-120 | | | |
| Toluene | 0.0428 | 0.00100 | " | 0.0500 | | 85.6 | 80-120 | | | |
| Ethylbenzene | 0.0413 | 0.00100 | " | 0.0500 | | 82.6 | 80-120 | | | |
| Xylene (p/m) | 0.0853 | 0.00100 | " | 0.100 | | 85.3 | 80-120 | | | |
| Xylene (o) | 0.0409 | 0.00100 | " | 0.0500 | | 81.8 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 36.7 | | ug/l | 40.0 | | 91.8 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 42.8 | | " | 40.0 | | 107 | 80-120 | | | |

Calibration Check (EJ61608-CCV1)

Prepared: 10/16/06 Analyzed: 10/17/06

| | | | | | | | | | | |
|-----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Benzene | 50.4 | | ug/l | 50.0 | | 101 | 80-120 | | | |
| Toluene | 43.5 | | " | 50.0 | | 87.0 | 80-120 | | | |
| Ethylbenzene | 41.4 | | " | 50.0 | | 82.8 | 80-120 | | | |
| Xylene (p/m) | 81.9 | | " | 100 | | 81.9 | 80-120 | | | |
| Xylene (o) | 40.3 | | " | 50.0 | | 80.6 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 33.7 | | " | 40.0 | | 84.2 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 35.0 | | " | 40.0 | | 87.5 | 80-120 | | | |

Matrix Spike (EJ61608-MS1)

Source: 6J12016-01

Prepared: 10/16/06 Analyzed: 10/17/06

| | | | | | | | | | | |
|-----------------------------------|--------|---------|------|--------|----|------|--------|--|--|--|
| Benzene | 0.0518 | 0.00100 | mg/L | 0.0500 | ND | 104 | 80-120 | | | |
| Toluene | 0.0462 | 0.00100 | " | 0.0500 | ND | 92.4 | 80-120 | | | |
| Ethylbenzene | 0.0424 | 0.00100 | " | 0.0500 | ND | 84.8 | 80-120 | | | |
| Xylene (p/m) | 0.0932 | 0.00100 | " | 0.100 | ND | 93.2 | 80-120 | | | |
| Xylene (o) | 0.0432 | 0.00100 | " | 0.0500 | ND | 86.4 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 37.6 | | ug/l | 40.0 | | 94.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 39.6 | | " | 40.0 | | 99.0 | 80-120 | | | |

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 5 of 10

Rice Operating Co.
 122 W. Taylor
 Hobbs NM, 88240

Project: EME Jct. K-33-1
 Project Number: None Given
 Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EJ61608 - EPA 5030C (GC)

Matrix Spike Dup (EJ61608-MSD1)

Source: 6J12016-01

Prepared: 10/16/06 Analyzed: 10/17/06

| | | | | | | | | | | |
|--|-------------|---------|-------------|-------------|----|-------------|---------------|------|----|--|
| Benzene | 0.0500 | 0.00100 | mg/L | 0.0500 | ND | 100 | 80-120 | 3.92 | 20 | |
| Toluene | 0.0424 | 0.00100 | " | 0.0500 | ND | 84.8 | 80-120 | 8.58 | 20 | |
| Ethylbenzene | 0.0453 | 0.00100 | " | 0.0500 | ND | 90.6 | 80-120 | 6.61 | 20 | |
| Xylene (p/m) | 0.0807 | 0.00100 | " | 0.100 | ND | 80.7 | 80-120 | 14.4 | 20 | |
| Xylene (o) | 0.0412 | 0.00100 | " | 0.0500 | ND | 82.4 | 80-120 | 4.74 | 20 | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | <i>33.8</i> | | <i>ug/l</i> | <i>40.0</i> | | <i>84.5</i> | <i>80-120</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>34.7</i> | | <i>"</i> | <i>40.0</i> | | <i>86.8</i> | <i>80-120</i> | | | |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

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

Batch EJ61311 - General Preparation (WetChem)

Blank (EJ61311-BLK1)

Prepared & Analyzed: 10/13/06

| | | | | | | | | | | |
|------------------------|----|-------|------|--|--|--|--|--|--|--|
| Total Alkalinity | ND | 2.00 | mg/L | | | | | | | |
| Carbonate Alkalinity | ND | 0.100 | " | | | | | | | |
| Bicarbonate Alkalinity | ND | 2.00 | " | | | | | | | |
| Hydroxide Alkalinity | ND | 0.100 | " | | | | | | | |

LCS (EJ61311-BS1)

Prepared: 10/13/06 Analyzed: 10/20/06

| | | | | | | | | | | |
|------------------------|-----|------|------|-----|--|------|--------|--|--|--|
| Bicarbonate Alkalinity | 196 | 2.00 | mg/L | 200 | | 98.0 | 85-115 | | | |
|------------------------|-----|------|------|-----|--|------|--------|--|--|--|

Duplicate (EJ61311-DUP1)

Source: 6J12011-01

Prepared & Analyzed: 10/13/06

| | | | | | | | | | | |
|------------------|-----|------|------|--|-----|--|--|------|----|--|
| Total Alkalinity | 238 | 2.00 | mg/L | | 242 | | | 1.67 | 20 | |
|------------------|-----|------|------|--|-----|--|--|------|----|--|

Reference (EJ61311-SRM1)

Prepared & Analyzed: 10/13/06

| | | | | | | | | | | |
|------------------|-----|--|------|-----|--|-----|--------|--|--|--|
| Total Alkalinity | 250 | | mg/L | 250 | | 100 | 90-110 | | | |
|------------------|-----|--|------|-----|--|-----|--------|--|--|--|

Batch EJ61403 - General Preparation (WetChem)

Blank (EJ61403-BLK1)

Prepared & Analyzed: 10/19/06

| | | | | | | | | | | |
|----------|----|-------|------|--|--|--|--|--|--|--|
| Chloride | ND | 0.500 | mg/L | | | | | | | |
| Sulfate | ND | 0.500 | " | | | | | | | |

LCS (EJ61403-BS1)

Prepared & Analyzed: 10/19/06

| | | | | | | | | | | |
|----------|------|-------|------|------|--|------|--------|--|--|--|
| Sulfate | 9.55 | 0.500 | mg/L | 10.0 | | 95.5 | 80-120 | | | |
| Chloride | 9.62 | 0.500 | " | 10.0 | | 96.2 | 80-120 | | | |

Calibration Check (EJ61403-CCV1)

Prepared & Analyzed: 10/19/06

| | | | | | | | | | | |
|----------|------|--|------|------|--|-----|--------|--|--|--|
| Sulfate | 10.1 | | mg/L | 10.0 | | 101 | 80-120 | | | |
| Chloride | 10.5 | | " | 10.0 | | 105 | 80-120 | | | |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|--|------|-------------|-------|-----------|-------|
| Batch EJ61403 - General Preparation (WetChem) | | | | | | | | | | |
| Duplicate (EJ61403-DUP1) | | Source: 6J12011-01 | | | Prepared & Analyzed: 10/19/06 | | | | | |
| Sulfate | 291 | 25.0 | mg/L | | 308 | | | 5.68 | 20 | |
| Chloride | 1430 | 25.0 | " | | 1430 | | | 0.00 | 20 | |
| Duplicate (EJ61403-DUP2) | | Source: 6J12016-02 | | | Prepared & Analyzed: 10/19/06 | | | | | |
| Sulfate | 236 | 12.5 | mg/L | | 237 | | | 0.423 | 20 | |
| Chloride | 690 | 12.5 | " | | 692 | | | 0.289 | 20 | |
| Matrix Spike (EJ61403-MS1) | | Source: 6J12011-01 | | | Prepared & Analyzed: 10/19/06 | | | | | |
| Sulfate | 781 | 25.0 | mg/L | 500 | 308 | 94.6 | 80-120 | | | |
| Chloride | 2040 | 25.0 | " | 500 | 1430 | 122 | 80-120 | | | S-07 |
| Matrix Spike (EJ61403-MS2) | | Source: 6J12016-02 | | | Prepared & Analyzed: 10/19/06 | | | | | |
| Sulfate | 476 | 12.5 | mg/L | 250 | 237 | 95.6 | 80-120 | | | |
| Chloride | 979 | 12.5 | " | 250 | 692 | 115 | 80-120 | | | |
| Batch EJ61404 - Filtration Preparation | | | | | | | | | | |
| Blank (EJ61404-BLK1) | | | | | Prepared: 10/14/06 Analyzed: 10/15/06 | | | | | |
| Total Dissolved Solids | ND | 10.0 | mg/L | | | | | | | |
| Duplicate (EJ61404-DUP1) | | Source: 6J12011-01 | | | Prepared: 10/14/06 Analyzed: 10/15/06 | | | | | |
| Total Dissolved Solids | 3380 | 10.0 | mg/L | | 3260 | | | 3.61 | 5 | |
| Duplicate (EJ61404-DUP2) | | Source: 6J12016-02 | | | Prepared: 10/14/06 Analyzed: 10/15/06 | | | | | |
| Total Dissolved Solids | 1850 | 10.0 | mg/L | | 1900 | | | 2.67 | 5 | |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

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

Batch EJ61604 - 6010B/No Digestion

Blank (EJ61604-BLK1)

Prepared: 10/13/06 Analyzed: 10/16/06

| | | | | | | | | | | |
|-----------|----|--------|------|--|--|--|--|--|--|--|
| Calcium | ND | 0.0810 | mg/L | | | | | | | |
| Magnesium | ND | 0.0360 | " | | | | | | | |
| Potassium | ND | 0.0600 | " | | | | | | | |
| Sodium | ND | 0.0430 | " | | | | | | | |

Calibration Check (EJ61604-CCV1)

Prepared: 10/13/06 Analyzed: 10/16/06

| | | | | | | | | | | |
|-----------|------|--|------|------|--|------|--------|--|--|--|
| Calcium | 1.99 | | mg/L | 2.00 | | 99.5 | 85-115 | | | |
| Magnesium | 2.20 | | " | 2.00 | | 110 | 85-115 | | | |
| Potassium | 1.94 | | " | 2.00 | | 97.0 | 85-115 | | | |
| Sodium | 1.79 | | " | 2.00 | | 89.5 | 85-115 | | | |

Duplicate (EJ61604-DUPI)

Source: 6J12001-04

Prepared: 10/13/06 Analyzed: 10/16/06

| | | | | | | | | | | |
|-----------|-------|--------|------|--|-------|--|--|-------|----|--|
| Calcium | 0.426 | 0.0810 | mg/L | | 0.427 | | | 0.234 | 20 | |
| Magnesium | 0.432 | 0.0360 | " | | 0.422 | | | 2.34 | 20 | |
| Potassium | 0.596 | 0.0600 | " | | 0.582 | | | 2.38 | 20 | |
| Sodium | 0.890 | 0.0430 | " | | 0.866 | | | 2.73 | 20 | |

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-33-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 10/24/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

Client: Rice Op.
 Date/ Time: 10/12/06 4:00
 Sample ID #: 6.512016
 Initials: AK

Sample Receipt Checklist

| | Yes | No | Temperature | Client Initials |
|--|----------------|----|--------------------------|-----------------|
| Temperature of container/ cooler? | | | 2.0 °C | |
| Shipping container in good condition? | Yes | No | | |
| Custody Seals intact on shipping container/ cooler? | Yes | No | Not Present | |
| Custody Seals intact on sample bottles/ container? | Yes | No | Not Present | |
| Chain of Custody present? | Yes | No | | |
| Sample instructions complete of Chain of Custody? | Yes | No | | |
| Chain of Custody signed when relinquished/ received? | Yes | No | | |
| Chain of Custody agrees with sample label(s)? | Yes | No | ID written on Cont./ Lid | |
| Container label(s) legible and intact? | Yes | No | Not Applicable | |
| Sample matrix/ properties agree with Chain of Custody? | Yes | No | | |
| Containers supplied by ELOT? | Yes | No | | |
| Samples in proper container/ bottle? | Yes | No | See Below | |
| Samples properly preserved? | Yes | No | See Below | |
| Sample bottles intact? | Yes | No | | |
| Preservations documented on Chain of Custody? | Yes | No | | |
| Containers documented on Chain of Custody? | Yes | No | | |
| Sufficient sample amount for indicated test(s)? | Yes | No | See Below | |
| All samples received within sufficient hold time? | Yes | No | See Below | |
| VOC samples have zero headspace? | Yes | No | Not Applicable | |

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Kristen Farris-Pope
 Rice Operating Company
 122 W Taylor Street
 Hobbs, NM, 88240

Report Date: August 9, 2006

Work Order: 6072144



Project Location: Lea County, New Mexico
 Project Name: EME Junction K-33-1
 Project Number: EME Junction K-33-1

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------|--------|------------|------------|---------------|
| 96141 | Monitor Well #1 | Water | 2006-07-17 | 12:15 | 2006-07-21 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 96141 - Monitor Well #1

| | | |
|----------------------|--------------------------------|------------------|
| Analysis: Alkalinity | Analytical Method: SM 2320B | Prep Method: N/A |
| QC Batch: 28340 | Date Analyzed: 2006-07-26 | Analyzed By: LJ |
| Prep Batch: 24777 | Sample Preparation: 2006-07-25 | Prepared By: LJ |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|---------------|----------|------|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | 276 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 276 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 96141 - Monitor Well #1

| | | |
|-------------------|--------------------------------|----------------------|
| Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5030B |
| QC Batch: 28277 | Date Analyzed: 2006-07-24 | Analyzed By: MT |
| Prep Batch: 24759 | Sample Preparation: 2006-07-24 | Prepared By: MT |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0954 | mg/L | 1 | 0.100 | 95 | 66.2 - 127.7 |
| 4-Bromofluorobenzene (4-BFB) | 1 | 0.0584 | mg/L | 1 | 0.100 | 58 | 70.6 - 129.2 |

Sample: 96141 - Monitor Well #1

| | | |
|-------------------|--------------------------------|----------------------|
| Analysis: Cations | Analytical Method: S 6010B | Prep Method: S 3005A |
| QC Batch: 28357 | Date Analyzed: 2006-07-26 | Analyzed By: TP |
| Prep Batch: 24749 | Sample Preparation: 2006-07-24 | Prepared By: TS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|-------|
| Dissolved Calcium | | 261 | mg/L | 10 | 0.500 |
| Dissolved Potassium | | 20.6 | mg/L | 1 | 1.00 |
| Dissolved Magnesium | | 109 | mg/L | 10 | 1.00 |
| Dissolved Sodium | | 288 | mg/L | 10 | 1.00 |

Sample: 96141 - Monitor Well #1

| | | |
|------------------------------|--------------------------------|------------------|
| Analysis: Ion Chromatography | Analytical Method: E 300.0 | Prep Method: N/A |
| QC Batch: 28782 | Date Analyzed: 2006-08-02 | Analyzed By: WB |
| Prep Batch: 25167 | Sample Preparation: 2006-08-02 | Prepared By: WB |

¹BFB surrogate recovery outside normal limits. ICV/CCV and TFT surrogate recovery show the method to be in control.

Laboratory Control Spike (LCS-1)

QC Batch: 28277
 Prep Batch: 24759

Date Analyzed: 2006-07-24
 QC Preparation: 2006-07-24

Analyzed By: MT
 Prepared By: MT

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|---------|------------|
| Benzene | 0.109 | mg/L | 1 | 0.1 | 0 | 109 | |
| Toluene | 0.108 | mg/L | 1 | 0.1 | 0 | 108 | |
| Ethylbenzene | 0.109 | mg/L | 1 | 0.1 | 0 | 109 | |
| Xylene | 0.322 | mg/L | 1 | 0.3 | 0 | 107.333 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|-------------|-------|------|--------------|---------------|---------|------------|-----|-----------|
| Benzene | 0.104 | mg/L | 1 | 0.1 | 0 | 109 | | 4.7 | 20 |
| Toluene | 0.103 | mg/L | 1 | 0.1 | 0 | 108 | | 4.7 | 20 |
| Ethylbenzene | 0.101 | mg/L | 1 | 0.1 | 0 | 109 | | 7.6 | 20 |
| Xylene | 0.306 | mg/L | 1 | 0.3 | 0 | 107.333 | | 5.1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | 0.101 | 0.101 | mg/L | 1 | 0.100 | 101 | 101 | 81.8 - 114 |
| 4-Bromofluorobenzene (4-BFB) | 0.112 | 0.111 | mg/L | 1 | 0.100 | 112 | 111 | 72.7 - 116 |

Laboratory Control Spike (LCS-1)

QC Batch: 28357
 Prep Batch: 24749

Date Analyzed: 2006-07-26
 QC Preparation: 2006-07-24

Analyzed By: TP
 Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|------------|-------|------|--------------|---------------|-------|------------|
| Dissolved Calcium | 51.7 | mg/L | 1 | 50 | 0 | 103.4 | |
| Dissolved Potassium | 50.8 | mg/L | 1 | 50 | 0 | 101.6 | |
| Dissolved Magnesium | 51.5 | mg/L | 1 | 50 | 0 | 103 | |
| Dissolved Sodium | 50.5 | mg/L | 1 | 50 | 0 | 101 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|-------------|-------|------|--------------|---------------|-------|------------|-----|-----------|
| Dissolved Calcium | 51.7 | mg/L | 1 | 50 | 0 | 103.4 | | 0 | 20 |
| Dissolved Potassium | 49.3 | mg/L | 1 | 50 | 0 | 101.6 | | 3 | 20 |
| Dissolved Magnesium | 49.8 | mg/L | 1 | 50 | 0 | 103 | | 3.4 | 20 |
| Dissolved Sodium | 48.6 | mg/L | 1 | 50 | 0 | 101 | | 3.8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 28782
 Prep Batch: 25167

Date Analyzed: 2006-08-02
 QC Preparation: 2006-08-02

Analyzed By: WB
 Prepared By: WB

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|
| Chloride | 12.2 | mg/L | 1 | 12.5 | 0 | 97.6 | |
| Sulfate | 12.5 | mg/L | 1 | 12.5 | 0 | 100 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 12.3 | mg/L | 1 | 12.5 | 0 | 97.6 | | 0.8 | 20 |
| Sulfate | 12.5 | mg/L | 1 | 12.5 | 0 | 100 | | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 96149

QC Batch: 28277
 Prep Batch: 24759

Date Analyzed: 2006-07-24
 QC Preparation: 2006-07-24

Analyzed By: MT
 Prepared By: MT

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | 0.107 | mg/L | 1 | 0.100 | <0.000255 | 107 | 70.9 - 126 |
| Toluene | 0.105 | mg/L | 1 | 0.100 | <0.000210 | 105 | 70.8 - 125 |
| Ethylbenzene | 0.106 | mg/L | 1 | 0.100 | <0.000317 | 106 | 74.8 - 125 |
| Xylene | 0.311 | mg/L | 1 | 0.300 | <0.000603 | 104 | 75.7 - 126 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|-----------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | ² NA | mg/L | 1 | 0.100 | <0.000255 | 0 | 70.9 - 126 | 200 | 20 |
| Toluene | ³ NA | mg/L | 1 | 0.100 | <0.000210 | 0 | 70.8 - 125 | 200 | 20 |
| Ethylbenzene | ⁴ NA | mg/L | 1 | 0.100 | <0.000317 | 0 | 74.8 - 125 | 200 | 20 |
| Xylene | ⁵ NA | mg/L | 1 | 0.300 | <0.000603 | 0 | 75.7 - 126 | 200 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | ⁶ 0.101 | NA | mg/L | 1 | 0.1 | 101 | 0 | 73.6 - 121 |
| 4-Bromofluorobenzene (4-BFB) | ⁷ 0.110 | NA | mg/L | 1 | 0.1 | 110 | 0 | 81.8 - 114 |

Matrix Spike (MS-1) Spiked Sample: 96142

QC Batch: 28357
 Prep Batch: 24749

Date Analyzed: 2006-07-26
 QC Preparation: 2006-07-24

Analyzed By: TP
 Prepared By: TS

²RPD is out of range because a matrix spike duplicate was not prepared.
³RPD is out of range because a matrix spike duplicate was not prepared.
⁴RPD is out of range because a matrix spike duplicate was not prepared.
⁵RPD is out of range because a matrix spike duplicate was not prepared.
⁶RPD is out of range because a matrix spike duplicate was not prepared.
⁷RPD is out of range because a matrix spike duplicate was not prepared.

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|-----------|-------|------|--------------|---------------|------|------------|
| Dissolved Calcium | 884 | mg/L | 1 | 50.0 | 863 | 42 | 68.4 - 138 |
| Dissolved Potassium | 110 | mg/L | 1 | 50.0 | 67.3 | 85 | 82 - 129 |
| Dissolved Magnesium | 496 | mg/L | 1 | 50.0 | 438 | 116 | 61.2 - 135 |
| Dissolved Sodium | 2200 | mg/L | 1 | 50.0 | 2180 | 40 | 81.8 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Dissolved Calcium | 884 | mg/L | 1 | 50.0 | 863 | 42 | 68.4 - 138 | 0 | 20 |
| Dissolved Potassium | 111 | mg/L | 1 | 50.0 | 67.3 | 87 | 82 - 129 | 1 | 20 |
| Dissolved Magnesium | 491 | mg/L | 1 | 50.0 | 438 | 106 | 61.2 - 135 | 1 | 20 |
| Dissolved Sodium | 2200 | mg/L | 1 | 50.0 | 2180 | 40 | 81.8 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 96141

QC Batch: 28782
 Prep Batch: 25167

Date Analyzed: 2006-08-02
 QC Preparation: 2006-08-02

Analyzed By: WB
 Prepared By: WB

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | 2210 | mg/L | 100 | 12.5 | 988 | 98 | 25.4 - 171 |
| Sulfate | 1580 | mg/L | 100 | 12.5 | 298 | 102 | 0 - 677 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 2200 | mg/L | 100 | 12.5 | 988 | 97 | 25.4 - 171 | 0 | 20 |
| Sulfate | 1550 | mg/L | 100 | 12.5 | 298 | 100 | 0 - 677 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 28277

Date Analyzed: 2006-07-24

Analyzed By: MT

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Benzene | | mg/L | 0.100 | 0.104 | 104 | 85 - 115 | 2006-07-24 |
| Toluene | | mg/L | 0.100 | 0.104 | 104 | 85 - 115 | 2006-07-24 |
| Ethylbenzene | | mg/L | 0.100 | 0.104 | 104 | 85 - 115 | 2006-07-24 |
| Xylene | | mg/L | 0.300 | 0.314 | 105 | 85 - 115 | 2006-07-24 |

⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

¹¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

