

1R - 426-02

## REPORTS

DATE:

3-2-07



2007 MAR 8 AM 11:00  
Suite 300  
Midland

ARCADIS G&M, Inc.  
1004 North Big Spring Street  
Suite 300  
Midland  
Texas 79701  
Tel 432 687 5400  
Fax 432 687 5401  
www.arcadis-us.com

Sent Certified Mail  
Return Receipt No. 7002 2410 0001 5812 9831

Mr. Ed Hansen  
New Mexico Energy, Minerals, & Natural Resources Dept.  
Oil Conservation Division, Environmental Bureau  
1220 S. St. Francis Drive  
Santa Fe, New Mexico 87505

Environmental

Subject: **2006 MONITOR WELL REPORT/SAMPLING SUMMARY**  
**Jcts. K-27, BD SWD SYSTEM**  
**Unit K, SEC. 27, T21S, R37E**  
**NMOCD CASE # Not Assigned**

1R426-02

Date:  
2 March 2007

Contact:  
Sharon E. Hall

Phone:  
432 687-5400

Email:  
shall@arcadis-us.com

Our ref:  
MT000856.0001

Dear Mr. Hansen:

On behalf of Rice Operating Company (ROC), ARCADIS G&M, Inc. (ARCADIS) respectfully submits the 2006 Monitor Well Report for the BD K-27 site located in the Blinbry-Drinkard (BD) Salt Water Disposal (SWD) System.

One monitoring well was installed at each of two junction box locations (K-27-1 and K-27 North on May 9 and 10, 2005 during delineation as part of the NMOCD approved ICP.

A letter informing NMOCD that due to their proximity to each other the sites would be combined as one site referred to as the K-27 site was submitted on June 12, 2006. The letter also informed NMOCD of our intent to drill 4 additional monitoring wells at the K-27 site. Approval to drill the monitor wells was received on July 18, 2007.

Monitor wells MW-2 through MW-5 were installed on July 24 and 25, 2006. All wells are sampled quarterly per NMOCD guidelines. The attached table summarizes the analytical results from groundwater samples collected from the monitor wells at the site. 2006 groundwater laboratory reports are also attached.

ROC is the service provider (agent) for the BD Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. The BD SWD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

Part of a bigger picture

ARCADIS

Mr. Ed Hansen  
2 March 2007

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me.

Sincerely,  
ARCADIS G&M, Inc.

*Sharon E. Hall*

Sharon E. Hall  
Site Evaluation Department Manager

Copies:  
Kristin Farris Pope- ROC (3 copies)

*Use or disclosure of information contained on this sheet is subject to the restriction and disclaimer located on the signature page of this document.*

K-27-N MW1

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | CI   | TDS  | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate |
|----|----------------|-------------|-------------|---------------|-------------|------|------|---------|---------|---------------|---------------|---------|
| 1  | 43.5           | 52.5        | XXX         | 17.5          | 6/27/2005   | 1060 | 2760 | <0.001  | <0.001  | <0.001        | <0.001        | 422     |
| 1  | 43.31          | 52.5        | XXX         | 18            | 9/6/2005    | 810  | 2270 | <0.001  | <0.001  | <0.001        | <0.001        | 290     |
| 1  | 43.21          | 52.5        | 6           | 18            | 10/17/2005  | 978  | 2240 | <0.001  | <0.001  | <0.001        | J{0.000886}   | 357     |
| 1  | 43.13          | 52.5        | 6.1         | 20            | 1/16/2006   | 621  | 1980 | <0.001  | <0.001  | <0.001        | <0.001        | 280     |
| 1  | 43.45          | 52.5        | 5.9         | 20            | 4/10/2006   | 740  | 1980 | <0.001  | <0.001  | <0.001        | <0.001        | 345     |
| 1  | 43.94          | 52.5        | 5.6         | 20            | 7/10/2006   | 704  | 2070 | <0.001  | <0.001  | <0.001        | <0.001        | 462     |
| 1  | 43.52          | 52.5        | 5.8         | 20            | 10/4/2006   | 494  | 1980 | <0.001  | <0.001  | <0.001        | <0.001        | 315     |

K-27-1 MW-1

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl   | TDS  | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate |
|----|----------------|-------------|-------------|---------------|-------------|------|------|---------|---------|---------------|---------------|---------|
| 1  | 35.45          | 44          | XXX         | 17            | 7/15/2005   | 975  | 2800 | <0.001  | <0.001  | <0.001        | <0.001        | 624     |
| 1  | 35.28          | 44          | XXX         | 17.08         | 9/6/2005    | 885  | 2850 | <0.001  | <0.001  | <0.001        | <0.001        | 460     |
| 1  | 35.14          | 44          | 5.8         | 17.5          | 10/17/2005  | 1280 | 3390 | <0.001  | <0.001  | <0.001        | <0.001        | 619     |
| 1  | 35.03          | 44          | 5.8         | 20            | 1/19/2006   | 679  | 2610 | <0.001  | <0.001  | <0.001        | <0.001        | 465     |
| 1  | 35.63          | 44          | 5.4         | 20            | 4/10/2006   | 442  | 1970 | <0.001  | <0.001  | <0.001        | <0.001        | 527     |
| 1  | 36.25          | 44          | 5           | 20            | 7/10/2006   | 430  | 1830 | <0.001  | <0.001  | <0.001        | <0.001        | 604     |
| 1  | 35.43          | 44          | 5.6         | 20            | 10/4/2006   | 314  | 1760 | <0.001  | <0.001  | <0.001        | <0.001        | 460     |

K-27 MW 2

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl  | TDS  | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate |
|----|----------------|-------------|-------------|---------------|-------------|-----|------|---------|---------|---------------|---------------|---------|
| 2  | 41.44          | 51.15       | 1.6         | 10            | 10/4/2006   | 543 | 1850 | <0.001  | <0.001  | <0.001        | <0.001        | 275     |
| 2  | 41.16          | 50.91       | 1.6         | 8             | 2/7/2007    |     |      |         |         |               |               |         |

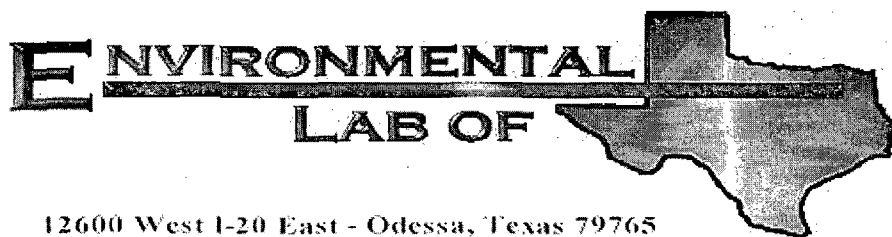
K-27 MW-3

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl  | TDS  | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate |
|----|----------------|-------------|-------------|---------------|-------------|-----|------|---------|---------|---------------|---------------|---------|
| 3  | 43.71          | 52.5        | 1.4         | 6             | 10/4/2006   | 227 | 1480 | <0.001  | <0.001  | <0.001        | <0.001        | 324     |
| 3  | 43.38          | 52.36       | 1.4         | 6             | 2/7/2007    |     |      |         |         |               |               |         |

K-27 MW-4

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | CI  | TDS  | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate |
|----|----------------|-------------|-------------|---------------|-------------|-----|------|---------|---------|---------------|---------------|---------|
| 4  | 37.42          | 45.3        | 1.3         | 6             | 10/4/2006   | 516 | 2020 | <0.001  | <0.001  | <0.001        | <0.001        | 540     |





12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD Jct. K-27-1

Project Number: None Given

Location: Lea County

Lab Order Number: 6A19009

Report Date: 01/28/06

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
**Reported:**  
01/28/06 09:03

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID       | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------------|---------------|--------|----------------|----------------|
| Monitor Well #1 | 6A19009-01    | Water  | 01/16/06 11:15 | 01/19/06 11:10 |

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:03

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                                   | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>Monitor Well #1 (6A19009-01) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                   | ND     | 0.00100            | mg/L   | 1        | EA62304 | 01/23/06 | 01/24/06 | EPA 8021B |       |
| 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 |        | 87.8 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: <i>4</i> -Bromofluorobenzene   |        | 88.2 %             | 80-120 |          | "       | "        | "        | "         |       |

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
01/28/06 09:03

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

| Analyte                            | Result | Reporting |      | Units | Dilution | Batch    | Prepared | Analyzed   | Method | Notes |
|------------------------------------|--------|-----------|------|-------|----------|----------|----------|------------|--------|-------|
|                                    |        | Limit     |      |       |          |          |          |            |        |       |
| Monitor Well #1 (6A19009-01) Water |        |           |      |       |          |          |          |            |        |       |
| Total Alkalinity                   | 311    | 2.00      | mg/L | 1     | EA62406  | 01/26/06 | 01/26/06 | EPA 310.1M |        |       |
| Chloride                           | 679    | 25.0      | "    | 50    | EA62018  | 01/20/06 | 01/20/06 | EPA 300.0  |        |       |
| Total Dissolved Solids             | 2610   | 5.00      | "    | 1     | EA62307  | 01/19/06 | 01/20/06 | EPA 160.1  |        |       |
| Sulfate                            | 465    | 25.0      | "    | 50    | EA62018  | 01/20/06 | 01/20/06 | EPA 300.0  |        |       |

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
**Reported:**  
01/28/06 09:03

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

| Analyte                                   | Result      | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------------------|-------------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Monitor Well #1 (6A19009-01) Water</b> |             |                    |       |          |         |          |          |           |       |
| <b>Calcium</b>                            | <b>273</b>  | 0.500              | mg/L  | 50       | EA62615 | 01/26/06 | 01/26/06 | EPA 6010B |       |
| <b>Magnesium</b>                          | <b>82.5</b> | 0.0500             | "     | "        | "       | "        | "        | "         |       |
| <b>Potassium</b>                          | <b>12.4</b> | 0.500              | "     | 10       | "       | "        | "        | "         |       |
| <b>Sodium</b>                             | <b>434</b>  | 1.00               | "     | 100      | "       | "        | "        | "         |       |

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Reported:  
01/28/06 09:03

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

| Analyte                                          | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD<br>Limit | Notes |
|--------------------------------------------------|--------|--------------------|-------|----------------|------------------|----------------|--------------|-------|
| <b>Batch EA62304 - EPA 5030C (GC)</b>            |        |                    |       |                |                  |                |              |       |
| <b>Blank (EA62304-BLK1)</b>                      |        |                    |       |                |                  |                |              |       |
| Prepared & Analyzed: 01/23/06                    |        |                    |       |                |                  |                |              |       |
| 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                | 37.5   |                    | ug/l  | 40.0           |                  | 93.8           | 80-120       |       |
| Surrogate: 4-Bromofluorobenzene                  | 32.6   |                    | "     | 40.0           |                  | 81.5           | 80-120       |       |
| <b>LCS (EA62304-BS1)</b>                         |        |                    |       |                |                  |                |              |       |
| Prepared & Analyzed: 01/23/06                    |        |                    |       |                |                  |                |              |       |
| Benzene                                          | 0.0461 | 0.00100            | mg/L  | 0.0500         |                  | 92.2           | 80-120       |       |
| Toluene                                          | 0.0462 | 0.00100            | "     | 0.0500         |                  | 92.4           | 80-120       |       |
| Ethylbenzene                                     | 0.0427 | 0.00100            | "     | 0.0500         |                  | 85.4           | 80-120       |       |
| Xylene (p/m)                                     | 0.0846 | 0.00100            | "     | 0.100          |                  | 84.6           | 80-120       |       |
| Xylene (o)                                       | 0.0451 | 0.00100            | "     | 0.0500         |                  | 90.2           | 80-120       |       |
| Surrogate: a,a,a-Trifluorotoluene                | 38.5   |                    | ug/l  | 40.0           |                  | 96.2           | 80-120       |       |
| Surrogate: 4-Bromofluorobenzene                  | 37.9   |                    | "     | 40.0           |                  | 94.8           | 80-120       |       |
| <b>Calibration Check (EA62304-CCV1)</b>          |        |                    |       |                |                  |                |              |       |
| Prepared & Analyzed: 01/23/06                    |        |                    |       |                |                  |                |              |       |
| Benzene                                          | 44.4   |                    | ug/l  | 50.0           |                  | 88.8           | 80-120       |       |
| Toluene                                          | 45.2   |                    | "     | 50.0           |                  | 90.4           | 80-120       |       |
| Ethylbenzene                                     | 42.5   |                    | "     | 50.0           |                  | 85.0           | 80-120       |       |
| Xylene (p/m)                                     | 83.1   |                    | "     | 100            |                  | 83.1           | 80-120       |       |
| Xylene (o)                                       | 44.5   |                    | "     | 50.0           |                  | 89.0           | 80-120       |       |
| Surrogate: a,a,a-Trifluorotoluene                | 35.8   |                    | "     | 40.0           |                  | 89.5           | 80-120       |       |
| Surrogate: 4-Bromofluorobenzene                  | 35.5   |                    | "     | 40.0           |                  | 88.8           | 80-120       |       |
| <b>Matrix Spike (EA62304-MS1)</b>                |        |                    |       |                |                  |                |              |       |
| Source: 6A20019-01 Prepared & Analyzed: 01/23/06 |        |                    |       |                |                  |                |              |       |
| Benzene                                          | 0.0455 | 0.00100            | mg/L  | 0.0500         | ND               | 91.0           | 80-120       |       |
| Toluene                                          | 0.0452 | 0.00100            | "     | 0.0500         | ND               | 90.4           | 80-120       |       |
| Ethylbenzene                                     | 0.0417 | 0.00100            | "     | 0.0500         | ND               | 83.4           | 80-120       |       |
| Xylene (p/m)                                     | 0.0829 | 0.00100            | "     | 0.100          | ND               | 82.9           | 80-120       |       |
| Xylene (o)                                       | 0.0445 | 0.00100            | "     | 0.0500         | ND               | 89.0           | 80-120       |       |
| Surrogate: a,a,a-Trifluorotoluene                | 38.2   |                    | ug/l  | 40.0           |                  | 95.5           | 80-120       |       |
| Surrogate: 4-Bromofluorobenzene                  | 36.2   |                    | "     | 40.0           |                  | 90.5           | 80-120       |       |

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:03

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

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

**Batch EA62304 - EPA 5030C (GC)**

**Matrix Spike Dup (EA62304-MSD1)**

Source: 6A20019-01

Prepared & Analyzed: 01/23/06

|                                   |        |         |      |        |    |      |        |      |    |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|------|----|--|
| Benzene                           | 0.0427 | 0.00100 | mg/L | 0.0500 | ND | 85.4 | 80-120 | 6.35 | 20 |  |
| Toluene                           | 0.0428 | 0.00100 | "    | 0.0500 | ND | 85.6 | 80-120 | 5.45 | 20 |  |
| Ethylbenzene                      | 0.0404 | 0.00100 | "    | 0.0500 | ND | 80.8 | 80-120 | 3.17 | 20 |  |
| Xylene (p/m)                      | 0.0802 | 0.00100 | "    | 0.100  | ND | 80.2 | 80-120 | 3.31 | 20 |  |
| Xylene (o)                        | 0.0427 | 0.00100 | "    | 0.0500 | ND | 85.4 | 80-120 | 4.13 | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 37.2   |         | ug/l | 40.0   |    | 93.0 | 80-120 |      |    |  |
| Surrogate: 4-Bromofluorobenzene   | 35.4   |         | "    | 40.0   |    | 88.5 | 80-120 |      |    |  |

Rice Operating Co.  
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Reported:  
01/28/06 09:03

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

| Analyte                                                                                  | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|------------------------------------------------------------------------------------------|--------|--------------------|-------|----------------|------------------|------|----------------|-------|--------------|-------|
| <b>Batch EA62018 - General Preparation (WetChem)</b>                                     |        |                    |       |                |                  |      |                |       |              |       |
| <b>Blank (EA62018-BLK1)</b> Prepared & Analyzed: 01/20/06                                |        |                    |       |                |                  |      |                |       |              |       |
| Sulfate                                                                                  | ND     | 0.500              | mg/L  |                |                  |      |                |       |              |       |
| Chloride                                                                                 | ND     | 0.500              | "     |                |                  |      |                |       |              |       |
| <b>LCS (EA62018-BS1)</b> Prepared & Analyzed: 01/20/06                                   |        |                    |       |                |                  |      |                |       |              |       |
| Chloride                                                                                 | 8.74   |                    | mg/L  | 10.0           |                  | 87.4 | 80-120         |       |              |       |
| Sulfate                                                                                  | 9.62   |                    | "     | 10.0           |                  | 96.2 | 80-120         |       |              |       |
| <b>Calibration Check (EA62018-CCV1)</b> Prepared & Analyzed: 01/20/06                    |        |                    |       |                |                  |      |                |       |              |       |
| Sulfate                                                                                  | 9.77   |                    | mg/L  | 10.0           |                  | 97.7 | 80-120         |       |              |       |
| Chloride                                                                                 | 8.88   |                    | "     | 10.0           |                  | 88.8 | 80-120         |       |              |       |
| <b>Duplicate (EA62018-DUP1)</b> Source: 6A19008-01 Prepared & Analyzed: 01/20/06         |        |                    |       |                |                  |      |                |       |              |       |
| Sulfate                                                                                  | 110    | 5.00               | mg/L  |                | 111              |      |                | 0.905 | 20           |       |
| Chloride                                                                                 | 61.5   | 5.00               | "     |                | 62.2             |      |                | 1.13  | 20           |       |
| <b>Batch EA62307 - General Preparation (WetChem)</b>                                     |        |                    |       |                |                  |      |                |       |              |       |
| <b>Blank (EA62307-BLK1)</b> Prepared: 01/19/06 Analyzed: 01/20/06                        |        |                    |       |                |                  |      |                |       |              |       |
| Total Dissolved Solids                                                                   | ND     | 5.00               | mg/L  |                |                  |      |                |       |              |       |
| <b>Duplicate (EA62307-DUP1)</b> Source: 6A19005-01 Prepared: 01/19/06 Analyzed: 01/20/06 |        |                    |       |                |                  |      |                |       |              |       |
| Total Dissolved Solids                                                                   | 2400   | 5.00               | mg/L  |                | 2480             |      |                | 3.28  | 5            |       |
| <b>Batch EA62406 - General Preparation (WetChem)</b>                                     |        |                    |       |                |                  |      |                |       |              |       |
| <b>Blank (EA62406-BLK1)</b> Prepared & Analyzed: 01/26/06                                |        |                    |       |                |                  |      |                |       |              |       |
| Total Alkalinity                                                                         | ND     | 2.00               | mg/L  |                |                  |      |                |       |              |       |

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:03

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

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

**Batch EA62406 - General Preparation (WetChem)**

**LCS (EA62406-BS1)**

Prepared & Analyzed: 01/26/06

|                        |     |  |      |     |  |     |        |  |  |  |
|------------------------|-----|--|------|-----|--|-----|--------|--|--|--|
| Bicarbonate Alkalinity | 220 |  | mg/L | 200 |  | 110 | 85-115 |  |  |  |
|------------------------|-----|--|------|-----|--|-----|--------|--|--|--|

**Duplicate (EA62406-DUP1)**

Source: 6A19005-01

Prepared & Analyzed: 01/26/06

|                  |     |      |      |  |     |  |  |       |    |  |
|------------------|-----|------|------|--|-----|--|--|-------|----|--|
| Total Alkalinity | 258 | 2.00 | mg/L |  | 256 |  |  | 0.778 | 20 |  |
|------------------|-----|------|------|--|-----|--|--|-------|----|--|

**Reference (EA62406-SRM1)**

Prepared & Analyzed: 01/26/06

|                  |      |  |      |     |  |      |        |  |  |  |
|------------------|------|--|------|-----|--|------|--------|--|--|--|
| Total Alkalinity | 97.0 |  | mg/L | 100 |  | 97.0 | 90-110 |  |  |  |
|------------------|------|--|------|-----|--|------|--------|--|--|--|

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
01/28/06 09:03

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

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

**Batch EA62615 - 6010B/No Digestion**

**Blank (EA62615-BLK1)**

Prepared & Analyzed: 01/26/06

|           |    |         |      |  |  |  |  |  |  |  |
|-----------|----|---------|------|--|--|--|--|--|--|--|
| Calcium   | ND | 0.0100  | mg/L |  |  |  |  |  |  |  |
| Magnesium | ND | 0.00100 | "    |  |  |  |  |  |  |  |
| Potassium | ND | 0.0500  | "    |  |  |  |  |  |  |  |
| Sodium    | ND | 0.0100  | "    |  |  |  |  |  |  |  |

**Calibration Check (EA62615-CCV1)**

Prepared & Analyzed: 01/26/06

|           |      |  |      |      |  |      |        |  |  |  |
|-----------|------|--|------|------|--|------|--------|--|--|--|
| Calcium   | 2.12 |  | mg/L | 2.00 |  | 106  | 85-115 |  |  |  |
| Magnesium | 1.99 |  | "    | 2.00 |  | 99.5 | 85-115 |  |  |  |
| Potassium | 1.88 |  | "    | 2.00 |  | 94.0 | 85-115 |  |  |  |
| Sodium    | 1.94 |  | "    | 2.00 |  | 97.0 | 85-115 |  |  |  |

**Duplicate (EA62615-DUP1)**

Source: 6A19005-01

Prepared & Analyzed: 01/26/06

|           |      |        |      |  |      |  |  |       |    |  |
|-----------|------|--------|------|--|------|--|--|-------|----|--|
| Calcium   | 224  | 0.500  | mg/L |  | 222  |  |  | 0.897 | 20 |  |
| Magnesium | 115  | 0.0500 | "    |  | 120  |  |  | 4.26  | 20 |  |
| Potassium | 14.6 | 0.500  | "    |  | 15.2 |  |  | 4.03  | 20 |  |
| Sodium    | 306  | 0.500  | "    |  | 313  |  |  | 2.26  | 20 |  |

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 9 of 10

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

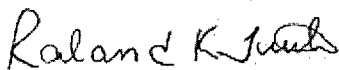
Fax: (505) 397-1471

Reported:  
01/28/06 09:03

### 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: 1/28/2006

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: Eric DP.  
 Date/Time: 1/19/06 11:10  
 Order #: KA19009  
 Initials: NK

**Sample Receipt Checklist**

|                                                           |     |    |                |
|-----------------------------------------------------------|-----|----|----------------|
| Temperature of container/cooler?                          | Yes | No | -2.0 C         |
| Shipping container/cooler in good condition?              | Yes | No |                |
| Custody Seals intact on shipping container/cooler?        | Yes | No | Not present    |
| Custody Seals intact on sample bottles?                   | Yes | No | Not present    |
| Chain of custody present?                                 | Yes | No |                |
| Sample Instructions complete on Chain of Custody?         | Yes | No |                |
| Chain of Custody signed when relinquished and received?   | Yes | No |                |
| Chain of custody agrees with sample label(s)              | Yes | No |                |
| Container labels legible and intact?                      | Yes | No |                |
| Sample Matrix and properties same as on chain of custody? | Yes | No |                |
| Samples in proper container/bottle?                       | Yes | No |                |
| Samples properly preserved?                               | Yes | No |                |
| 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?              | Yes | No |                |
| All samples received within sufficient hold time?         | Yes | No |                |
| VOC samples have zero headspace?                          | Yes | No | Not Applicable |

Other observations:

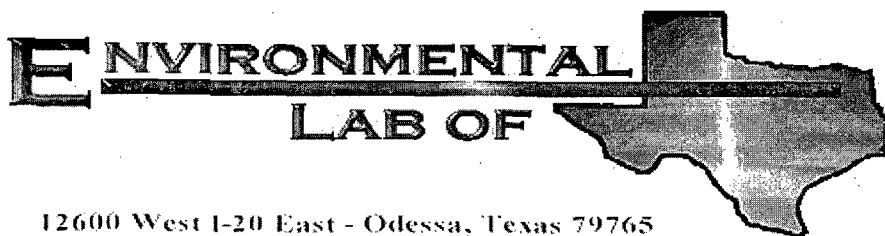
Samples not frozen

**Variance Documentation:**

Contact Person: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
 Regarding: \_\_\_\_\_

Corrective Action Taken:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD Jct. K-27 North

Project Number: None Given

Location: Lea County

Lab Order Number: 6A19010

Report Date: 01/28/06

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

Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
01/28/06 09:04

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID       | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------------|---------------|--------|----------------|----------------|
| Monitor Well #1 | 6A19010-01    | Water  | 01/16/06 10:20 | 01/19/06 11:10 |

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

Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
01/28/06 09:04

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                                   | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>Monitor Well #1 (6A19010-01) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                   | ND     | 0.00100            | mg/L   | 1        | EA62304 | 01/23/06 | 01/24/06 | EPA 8021B |       |
| 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 |        | 86.8 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: <i>4</i> -Bromofluorobenzene   |        | 81.5 %             | 80-120 |          | "       | "        | "        | "         |       |

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

Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:04

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

| Analyte                                   | Result      | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method     | Notes |
|-------------------------------------------|-------------|--------------------|-------|----------|---------|----------|----------|------------|-------|
| <b>Monitor Well #1 (6A19010-01) Water</b> |             |                    |       |          |         |          |          |            |       |
| <b>Total Alkalinity</b>                   | <b>245</b>  | 2.00               | mg/L  | 1        | EA62406 | 01/26/06 | 01/26/06 | EPA 310.1M |       |
| <b>Chloride</b>                           | <b>621</b>  | 12.5               | "     | 25       | EA62018 | 01/20/06 | 01/20/06 | EPA 300.0  |       |
| <b>Total Dissolved Solids</b>             | <b>1980</b> | 5.00               | "     | 1        | EA62307 | 01/19/06 | 01/20/06 | EPA 160.1  |       |
| <b>Sulfate</b>                            | <b>280</b>  | 12.5               | "     | 25       | EA62018 | 01/20/06 | 01/20/06 | EPA 300.0  |       |

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

Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:04

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

| Analyte                                   | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Monitor Well #1 (6A19010-01) Water</b> |        |                    |       |          |         |          |          |           |       |
| Calcium                                   | 178    | 0.500              | mg/L  | 50       | EA62615 | 01/26/06 | 01/26/06 | EPA 6010B |       |
| Magnesium                                 | 87.7   | 0.0500             | "     | "        | "       | "        | "        | "         |       |
| Potassium                                 | 9.57   | 0.500              | "     | 10       | "       | "        | "        | "         |       |
| Sodium                                    | 287    | 0.500              | "     | 50       | "       | "        | "        | "         |       |

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

Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:04

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

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

**Batch EA62304 - EPA 5030C (GC)**

**Blank (EA62304-BLK1)**

Prepared & Analyzed: 01/23/06

|                                   |      |         |      |      |  |      |        |  |  |
|-----------------------------------|------|---------|------|------|--|------|--------|--|--|
| 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 | 37.5 |         | ug/l | 40.0 |  | 93.8 | 80-120 |  |  |
| Surrogate: 4-Bromofluorobenzene   | 32.6 |         | "    | 40.0 |  | 81.5 | 80-120 |  |  |

**LCS (EA62304-BS1)**

Prepared & Analyzed: 01/23/06

|                                   |        |         |      |        |  |      |        |  |  |
|-----------------------------------|--------|---------|------|--------|--|------|--------|--|--|
| Benzene                           | 0.0461 | 0.00100 | mg/L | 0.0500 |  | 92.2 | 80-120 |  |  |
| Toluene                           | 0.0462 | 0.00100 | "    | 0.0500 |  | 92.4 | 80-120 |  |  |
| Ethylbenzene                      | 0.0427 | 0.00100 | "    | 0.0500 |  | 85.4 | 80-120 |  |  |
| Xylene (p/m)                      | 0.0846 | 0.00100 | "    | 0.100  |  | 84.6 | 80-120 |  |  |
| Xylene (o)                        | 0.0451 | 0.00100 | "    | 0.0500 |  | 90.2 | 80-120 |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 38.5   |         | ug/l | 40.0   |  | 96.2 | 80-120 |  |  |
| Surrogate: 4-Bromofluorobenzene   | 37.9   |         | "    | 40.0   |  | 94.8 | 80-120 |  |  |

**Calibration Check (EA62304-CCV1)**

Prepared & Analyzed: 01/23/06

|                                   |      |  |      |      |  |      |        |  |  |
|-----------------------------------|------|--|------|------|--|------|--------|--|--|
| Benzene                           | 44.4 |  | ug/l | 50.0 |  | 88.8 | 80-120 |  |  |
| Toluene                           | 45.2 |  | "    | 50.0 |  | 90.4 | 80-120 |  |  |
| Ethylbenzene                      | 42.5 |  | "    | 50.0 |  | 85.0 | 80-120 |  |  |
| Xylene (p/m)                      | 83.1 |  | "    | 100  |  | 83.1 | 80-120 |  |  |
| Xylene (o)                        | 44.5 |  | "    | 50.0 |  | 89.0 | 80-120 |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 35.8 |  | "    | 40.0 |  | 89.5 | 80-120 |  |  |
| Surrogate: 4-Bromofluorobenzene   | 35.5 |  | "    | 40.0 |  | 88.8 | 80-120 |  |  |

**Matrix Spike (EA62304-MS1)**

Source: 6A20019-01

Prepared & Analyzed: 01/23/06

|                                   |        |         |      |        |    |      |        |  |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|--|--|
| Benzene                           | 0.0455 | 0.00100 | mg/L | 0.0500 | ND | 91.0 | 80-120 |  |  |
| Toluene                           | 0.0452 | 0.00100 | "    | 0.0500 | ND | 90.4 | 80-120 |  |  |
| Ethylbenzene                      | 0.0417 | 0.00100 | "    | 0.0500 | ND | 83.4 | 80-120 |  |  |
| Xylene (p/m)                      | 0.0829 | 0.00100 | "    | 0.100  | ND | 82.9 | 80-120 |  |  |
| Xylene (o)                        | 0.0445 | 0.00100 | "    | 0.0500 | ND | 89.0 | 80-120 |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 38.2   |         | ug/l | 40.0   |    | 95.5 | 80-120 |  |  |
| Surrogate: 4-Bromofluorobenzene   | 36.2   |         | "    | 40.0   |    | 90.5 | 80-120 |  |  |

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

Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:04

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

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

**Batch EA62304 - EPA 5030C (GC)**

**Matrix Spike Dup (EA62304-MSD1)**

**Source: 6A20019-01**

**Prepared & Analyzed: 01/23/06**

|                                   |        |         |      |        |    |      |        |      |    |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|------|----|--|
| Benzene                           | 0.0427 | 0.00100 | mg/L | 0.0500 | ND | 85.4 | 80-120 | 6.35 | 20 |  |
| Toluene                           | 0.0428 | 0.00100 | "    | 0.0500 | ND | 85.6 | 80-120 | 5.45 | 20 |  |
| Ethylbenzene                      | 0.0404 | 0.00100 | "    | 0.0500 | ND | 80.8 | 80-120 | 3.17 | 20 |  |
| Xylene (p/m)                      | 0.0802 | 0.00100 | "    | 0.100  | ND | 80.2 | 80-120 | 3.31 | 20 |  |
| Xylene (o)                        | 0.0427 | 0.00100 | "    | 0.0500 | ND | 85.4 | 80-120 | 4.13 | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 37.2   |         | ug/l | 40.0   |    | 93.0 | 80-120 |      |    |  |
| Surrogate: 4-Bromofluorobenzene   | 35.4   |         | "    | 40.0   |    | 88.5 | 80-120 |      |    |  |

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

Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:04

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

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

**Batch EA62018 - General Preparation (WetChem)**

**Blank (EA62018-BLK1)**

Prepared & Analyzed: 01/20/06

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

**LCS (EA62018-BS1)**

Prepared & Analyzed: 01/20/06

|          |      |  |      |      |  |      |        |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|
| Chloride | 8.74 |  | mg/L | 10.0 |  | 87.4 | 80-120 |  |  |  |
| Sulfate  | 9.62 |  | "    | 10.0 |  | 96.2 | 80-120 |  |  |  |

**Calibration Check (EA62018-CCV1)**

Prepared & Analyzed: 01/20/06

|          |      |  |      |      |  |      |        |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|
| Sulfate  | 9.77 |  | mg/L | 10.0 |  | 97.7 | 80-120 |  |  |  |
| Chloride | 8.88 |  | "    | 10.0 |  | 88.8 | 80-120 |  |  |  |

**Duplicate (EA62018-DUP1)**

Source: 6A19008-01

Prepared & Analyzed: 01/20/06

|          |      |      |      |  |      |  |  |       |    |  |
|----------|------|------|------|--|------|--|--|-------|----|--|
| Sulfate  | 110  | 5.00 | mg/L |  | 111  |  |  | 0.905 | 20 |  |
| Chloride | 61.5 | 5.00 | "    |  | 62.2 |  |  | 1.13  | 20 |  |

**Batch EA62307 - General Preparation (WetChem)**

**Blank (EA62307-BLK1)**

Prepared: 01/19/06 Analyzed: 01/20/06

|                        |    |      |      |  |  |  |  |  |  |  |
|------------------------|----|------|------|--|--|--|--|--|--|--|
| Total Dissolved Solids | ND | 5.00 | mg/L |  |  |  |  |  |  |  |
|------------------------|----|------|------|--|--|--|--|--|--|--|

**Duplicate (EA62307-DUP1)**

Source: 6A19005-01

Prepared: 01/19/06 Analyzed: 01/20/06

|                        |      |      |      |  |      |  |  |      |   |  |
|------------------------|------|------|------|--|------|--|--|------|---|--|
| Total Dissolved Solids | 2400 | 5.00 | mg/L |  | 2480 |  |  | 3.28 | 5 |  |
|------------------------|------|------|------|--|------|--|--|------|---|--|

**Batch EA62406 - General Preparation (WetChem)**

**Blank (EA62406-BLK1)**

Prepared & Analyzed: 01/26/06

|                  |    |      |      |  |  |  |  |  |  |  |
|------------------|----|------|------|--|--|--|--|--|--|--|
| Total Alkalinity | ND | 2.00 | mg/L |  |  |  |  |  |  |  |
|------------------|----|------|------|--|--|--|--|--|--|--|

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

Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:04

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

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

**Batch EA62406 - General Preparation (WetChem)**

**LCS (EA62406-BS1)**

Prepared & Analyzed: 01/26/06

|                        |     |  |      |     |  |     |        |  |  |  |
|------------------------|-----|--|------|-----|--|-----|--------|--|--|--|
| Bicarbonate Alkalinity | 220 |  | mg/L | 200 |  | 110 | 85-115 |  |  |  |
|------------------------|-----|--|------|-----|--|-----|--------|--|--|--|

**Duplicate (EA62406-DUP1)**

Source: 6A19005-01

Prepared & Analyzed: 01/26/06

|                  |     |      |      |  |     |  |  |       |    |  |
|------------------|-----|------|------|--|-----|--|--|-------|----|--|
| Total Alkalinity | 258 | 2.00 | mg/L |  | 256 |  |  | 0.778 | 20 |  |
|------------------|-----|------|------|--|-----|--|--|-------|----|--|

**Reference (EA62406-SRM1)**

Prepared & Analyzed: 01/26/06

|                  |      |  |      |     |  |      |        |  |  |  |
|------------------|------|--|------|-----|--|------|--------|--|--|--|
| Total Alkalinity | 97.0 |  | mg/L | 100 |  | 97.0 | 90-110 |  |  |  |
|------------------|------|--|------|-----|--|------|--------|--|--|--|

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

Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
01/28/06 09:04

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

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

**Batch EA62615 - 6010B/No Digestion**

**Blank (EA62615-BLK1)**

Prepared & Analyzed: 01/26/06

|           |    |         |      |  |  |  |  |  |  |  |
|-----------|----|---------|------|--|--|--|--|--|--|--|
| Calcium   | ND | 0.0100  | mg/L |  |  |  |  |  |  |  |
| Magnesium | ND | 0.00100 | "    |  |  |  |  |  |  |  |
| Potassium | ND | 0.0500  | "    |  |  |  |  |  |  |  |
| Sodium    | ND | 0.0100  | "    |  |  |  |  |  |  |  |

**Calibration Check (EA62615-CCV1)**

Prepared & Analyzed: 01/26/06

|           |      |  |      |      |  |      |        |  |  |  |
|-----------|------|--|------|------|--|------|--------|--|--|--|
| Calcium   | 2.12 |  | mg/L | 2.00 |  | 106  | 85-115 |  |  |  |
| Magnesium | 1.99 |  | "    | 2.00 |  | 99.5 | 85-115 |  |  |  |
| Potassium | 1.88 |  | "    | 2.00 |  | 94.0 | 85-115 |  |  |  |
| Sodium    | 1.94 |  | "    | 2.00 |  | 97.0 | 85-115 |  |  |  |

**Duplicate (EA62615-DUP1)**

Source: 6A19005-01

Prepared & Analyzed: 01/26/06

|           |      |        |      |  |      |  |  |       |    |  |
|-----------|------|--------|------|--|------|--|--|-------|----|--|
| Calcium   | 224  | 0.500  | mg/L |  | 222  |  |  | 0.897 | 20 |  |
| Magnesium | 115  | 0.0500 | "    |  | 120  |  |  | 4.26  | 20 |  |
| Potassium | 14.6 | 0.500  | "    |  | 15.2 |  |  | 4.03  | 20 |  |
| Sodium    | 306  | 0.500  | "    |  | 313  |  |  | 2.26  | 20 |  |

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

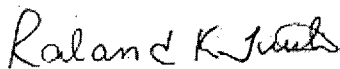
Project: BD Jct. K-27 North  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
**Reported:**  
01/28/06 09:04

### 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:

1/28/2006

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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12600 West I-20 East  
Odessa, Texas 79765  
Phone: 432-563-1800  
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: BD Jct. K-27 North

Project #:

Project Loc: Lea County

送

Fax No: (505) 397-1471

**Sampler Signature:** Rozanne Johnson (505) 631-9310

Email: [rozanne@valornet.com](mailto:rozanne@valornet.com)

[illegible]

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

Client: Waco DP.  
Date/Time: 11/19/06 11:10  
Order #: KA19010  
Initials: NK

Sample Receipt Checklist

|                                                           |     |    |                |
|-----------------------------------------------------------|-----|----|----------------|
| Temperature of container/cooler?                          | Yes | No | -2.0 C         |
| Shipping container/cooler in good condition?              | Yes | No |                |
| Custody Seals intact on shipping container/cooler?        | Yes | No | Not present    |
| Custody Seals intact on sample bottles?                   | Yes | No | Not present    |
| Chain of custody present?                                 | Yes | No |                |
| Sample Instructions complete on Chain of Custody?         | Yes | No |                |
| Chain of Custody signed when relinquished and received?   | Yes | No |                |
| Chain of custody agrees with sample label(s)              | Yes | No |                |
| Container labels legible and intact?                      | Yes | No |                |
| Sample Matrix and properties same as on chain of custody? | Yes | No |                |
| Samples in proper container/bottle?                       | Yes | No |                |
| Samples properly preserved?                               | Yes | No |                |
| 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?              | Yes | No |                |
| All samples received within sufficient hold time?         | Yes | No |                |
| VOC samples have zero headspace?                          | Yes | No | Not Applicable |

Other observations:

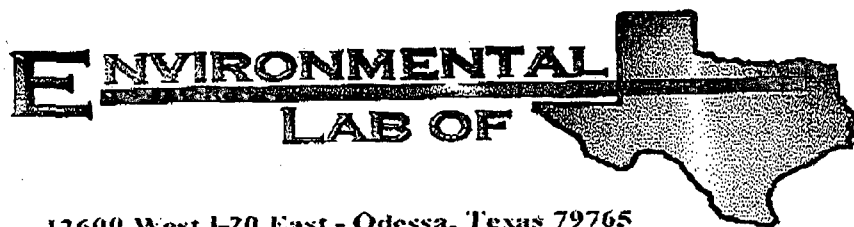
Samples not frozen

Variance Documentation:

Contact Person: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
Regarding: \_\_\_\_\_

Corrective Action Taken:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

**Project:** BD Jct. K-27-1

**Project Number:** None Given

**Location:** Lea County

**Lab Order Number:** 6D12004

**Report Date:** 04/21/06

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

Project: BD Jet K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
Reported:  
04/21/06 08:29

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID       | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------------|---------------|--------|----------------|----------------|
| Monitor Well #1 | 6D12004-01    | Water  | 04/10/06 11:05 | 04/12/06 12:00 |

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

Project: BD Jet K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
04/21/06 08:29

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                                   | Result | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------------------|--------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>Monitor Well #1 (6012004-01) Water</b> |        |                 |        |          |         |          |          |           |       |
| Benzene                                   | ND     | 0.00100         | mg/L   | 1        | ED61702 | 04/17/06 | 04/18/06 | EPA 8021B |       |
| 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 |        | 86.2 %          | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene           |        | 96.2 %          | 80-120 |          | "       | "        | "        | "         |       |

Environmental Lab of Texas

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Page 2 of 10

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
04/21/06 08:29

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

| Analyte                                   | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method     | Notes |
|-------------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|------------|-------|
| <b>Monitor Well #1 (6D12004-01) Water</b> |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                          | 318    | 2.00               | mg/L  | 1        | ED61405 | 04/14/06 | 04/14/06 | EPA 310.1M |       |
| Chloride                                  | 442    | 10.0               | "     | 20       | ED61710 | 04/17/06 | 04/17/06 | EPA 300.0  |       |
| Total Dissolved Solids                    | 1970   | 5.00               | "     | 1        | ED61705 | 04/13/06 | 04/14/06 | EPA 160.1  |       |
| Sulfate                                   | 527    | 10.0               | "     | 20       | ED61710 | 04/17/06 | 04/17/06 | EPA 300.0  |       |

Environmental Lab of Texas

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Page 3 of 10

R/ce Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
Reported:  
04/21/06 08:29

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

| Analyte                                   | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Monitor Well #1 (6D)2004-01) Water</b> |        |                    |       |          |         |          |          |           |       |
| Calcium                                   | 180    | 0.500              | mg/L  | 50       | ED61308 | 04/13/06 | 04/13/06 | EPA 6010B |       |
| Magnesium                                 | 69.0   | 0.0500             | "     | "        | "       | "        | "        | "         |       |
| Potassium                                 | 9.26   | 0.500              | "     | 10       | "       | "        | "        | "         |       |
| Sodium                                    | 317    | 2.00               | "     | 200      | "       | "        | "        | "         |       |

Environmental Lab of Texas

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Page 4 of 10

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
04/21/06 08:29

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

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

**Batch ED61702 - EPA 5030C (GC)****Matrix Spike Dup (ED61702-MSD1)**

Source: 6D13006-01

Prepared: 04/17/06 Analyzed: 04/18/06

|                                         |        |         |      |        |    |      |        |      |    |  |
|-----------------------------------------|--------|---------|------|--------|----|------|--------|------|----|--|
| Benzene                                 | 0.0491 | 0.00100 | mg/L | 0.0500 | ND | 98.2 | 80-120 | 10.4 | 20 |  |
| Toluene                                 | 0.0495 | 0.00100 | "    | 0.0500 | ND | 99.0 | 80-120 | 13.2 | 20 |  |
| Ethylbenzene                            | 0.0504 | 0.00100 | "    | 0.0500 | ND | 101  | 80-120 | 14.7 | 20 |  |
| Xylene (p/m)                            | 0.111  | 0.00100 | "    | 0.100  | ND | 111  | 80-120 | 7.79 | 20 |  |
| Xylene (o)                              | 0.0555 | 0.00100 | "    | 0.0500 | ND | 111  | 80-120 | 0.00 | 20 |  |
| Surrogate: <i>o,o</i> -Trifluorotoluene | 37.4   |         | ug/l | 40.0   |    | 93.5 | 80-120 |      |    |  |
| Surrogate: 4-Bromofluorobenzene         | 40.2   |         | "    | 40.0   |    | 100  | 80-120 |      |    |  |

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

Project: BD Jet K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
04/21/06 08:29

# **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 |
|------------------------------------------------------|--------|-----------------|-------|----------------------------------------------------------|---------------|------|-------------|-------|-----------|-------|
| <b>Batch ED61405 - General Preparation (WetChem)</b> |        |                 |       |                                                          |               |      |             |       |           |       |
| <b>Blank (ED61405-BLK1)</b>                          |        |                 |       | Prepared & Analyzed: 04/14/06                            |               |      |             |       |           |       |
| Total Alkalinity                                     | ND     | 2.00            | mg/L  |                                                          |               |      |             |       |           |       |
| <b>LCS (ED61405-BL1)</b>                             |        |                 |       | Prepared & Analyzed: 04/14/06                            |               |      |             |       |           |       |
| Bicarbonate Alkalinity                               | 216    |                 | mg/L  | 200                                                      |               | 108  | 85-115      |       |           |       |
| <b>Duplicate (ED61405-DUP1)</b>                      |        |                 |       | Source: 6D12002-01 Prepared & Analyzed: 04/14/06         |               |      |             |       |           |       |
| Total Alkalinity                                     | 193    | 2.00            | mg/L  |                                                          | 194           |      |             | 0.517 | 20        |       |
| <b>Reference (ED61405-SRMI)</b>                      |        |                 |       | Prepared & Analyzed: 04/14/06                            |               |      |             |       |           |       |
| Total Alkalinity                                     | 97.0   |                 | mg/L  | 100                                                      |               | 97.0 | 90-110      |       |           |       |
| <b>Batch ED61705 - General Preparation (WetChem)</b> |        |                 |       |                                                          |               |      |             |       |           |       |
| <b>Blank (ED61705-BLK1)</b>                          |        |                 |       | Prepared: 04/13/06 Analyzed: 04/14/06                    |               |      |             |       |           |       |
| Total Dissolved Solids                               | ND     | 5.00            | mg/L  |                                                          |               |      |             |       |           |       |
| <b>Duplicate (ED61705-DUP1)</b>                      |        |                 |       | Source: 6D12002-03 Prepared: 04/13/06 Analyzed: 04/14/06 |               |      |             |       |           |       |
| Total Dissolved Solids                               | 3410   | 5.00            | mg/L  |                                                          | 3580          |      |             | 4.86  | 5         |       |
| <b>Batch ED61710 - General Preparation (WetChem)</b> |        |                 |       |                                                          |               |      |             |       |           |       |
| <b>Blank (ED61710-BLK1)</b>                          |        |                 |       | Prepared & Analyzed: 04/17/06                            |               |      |             |       |           |       |
| Sulfate                                              | ND     | 0.500           | mg/L  |                                                          |               |      |             |       |           |       |
| Chloride                                             | ND     | 0.500           | "     |                                                          |               |      |             |       |           |       |
| <b>LCS (ED61710-BL1)</b>                             |        |                 |       | Prepared & Analyzed: 04/17/06                            |               |      |             |       |           |       |
| Chloride                                             | 10.1   |                 | mg/L  | 10.0                                                     |               | 101  | 80-120      |       |           |       |
| Sulfate                                              | 9.39   |                 | "     | 10.0                                                     |               | 93.9 | 80-120      |       |           |       |

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
04/21/06 08:29

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

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

**Batch ED61710 - General Preparation (WetChem)****Calibration Check (ED61710-CCV1)**

Prepared &amp; Analyzed: 04/17/06

|          |      |  |      |      |  |     |        |  |  |  |
|----------|------|--|------|------|--|-----|--------|--|--|--|
| Chloride | 10.7 |  | mg/L | 10.0 |  | 107 | 80-120 |  |  |  |
| Sulfate  | 11.5 |  | "    | 10.0 |  | 115 | 80-120 |  |  |  |

**Duplicate (ED61710-DUP1)**

Source: 6D12002-01

Prepared &amp; Analyzed: 04/17/06

|          |      |      |      |  |      |  |  |      |    |  |
|----------|------|------|------|--|------|--|--|------|----|--|
| Sulfate  | 164  | 25.0 | mg/L |  | 167  |  |  | 1.81 | 20 |  |
| Chloride | 2180 | 25.0 | "    |  | 2130 |  |  | 2.32 | 20 |  |

Environmental Lab of Texas

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Page 8 of 10

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

Project: BD Jct. K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
04/21/06 08:29

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

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

**Batch ED61308 - 6010B/No Digestion**

Prepared &amp; Analyzed: 04/13/06

**Blank (ED61308-BLK1)**

|           |    |         |      |  |  |  |  |  |  |  |
|-----------|----|---------|------|--|--|--|--|--|--|--|
| Calcium   | ND | 0.0100  | mg/L |  |  |  |  |  |  |  |
| Magnesium | ND | 0.00100 | "    |  |  |  |  |  |  |  |
| Potassium | ND | 0.0500  | "    |  |  |  |  |  |  |  |
| Sodium    | ND | 0.0100  | "    |  |  |  |  |  |  |  |

Prepared &amp; Analyzed: 04/13/06

**Calibration Check (ED61308-CCV1)**

|           |      |  |      |      |  |      |        |  |  |  |
|-----------|------|--|------|------|--|------|--------|--|--|--|
| Calcium   | 2.00 |  | mg/L | 2.00 |  | 100  | 85-115 |  |  |  |
| Magnesium | 2.17 |  | "    | 2.00 |  | 108  | 85-115 |  |  |  |
| Potassium | 1.80 |  | "    | 2.00 |  | 90.0 | 85-115 |  |  |  |
| Sodium    | 2.08 |  | "    | 2.00 |  | 104  | 85-115 |  |  |  |

Prepared &amp; Analyzed: 04/13/06

**Duplicate (ED61308-DUP1)**

Source: 6D12002-01

|           |      |        |      |      |  |       |    |  |  |  |
|-----------|------|--------|------|------|--|-------|----|--|--|--|
| Calcium   | 285  | 0.500  | mg/L | 286  |  | 0.350 | 20 |  |  |  |
| Magnesium | 145  | 0.0500 | "    | 153  |  | 5.37  | 20 |  |  |  |
| Potassium | 11.6 | 0.500  | "    | 13.4 |  | 14.4  | 20 |  |  |  |
| Sodium    | 707  | 2.00   | "    | 734  |  | 3.75  | 20 |  |  |  |

Environmental Lab of Texas

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Page 9 of 10

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

Project: BD Jet K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

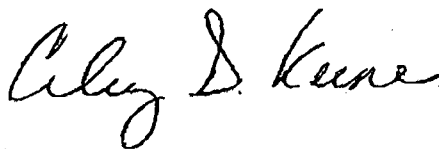
Fax: (505) 397-1471

Reported:  
04/21/06 08:29

### 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:

4/21/2006

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

Jeann Mc Murrey, Inorg. Tech Director  
La Tasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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**12800 West I-20 East  
Odessa, Texas 79765**  
**Phone: 432-583-1800**  
**Fax: 432-583-1713**

**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

Email: [rozanne@valor.net.com](mailto:rozanne@valor.net.com)

[illegible]

# Environmental Lab of Texas

## Variance / Corrective Action Report – Sample Log-In

ent: Rice Op.  
 te/Time: 4/12/06 12:00  
 der #: 6D2004  
 tials: CK

### Sample Receipt Checklist

| Temperature of container/cooler?                          | Yes                                 | No | 30             | C |
|-----------------------------------------------------------|-------------------------------------|----|----------------|---|
| Shipping container/cooler in good condition?              | <input checked="" type="checkbox"/> | No |                |   |
| Study Seals intact on shipping container/cooler?          | <input checked="" type="checkbox"/> | No | Not present    |   |
| Study Seals intact on sample bottles?                     | <input checked="" type="checkbox"/> | No | Not present    |   |
| Chain of custody present?                                 | <input checked="" type="checkbox"/> | No |                |   |
| Sample instructions complete on Chain of Custody?         | <input checked="" type="checkbox"/> | No |                |   |
| Chain of Custody signed when relinquished and received?   | <input checked="" type="checkbox"/> | No |                |   |
| Chain of custody agrees with sample label(s)              | <input checked="" type="checkbox"/> | No |                |   |
| Container labels legible and intact?                      | <input checked="" type="checkbox"/> | No |                |   |
| Sample Matrix and properties same as on chain of custody? | <input checked="" type="checkbox"/> | No |                |   |
| Samples in proper container/bottle?                       | <input checked="" type="checkbox"/> | No |                |   |
| Samples properly preserved?                               | <input checked="" type="checkbox"/> | No |                |   |
| Sample bottles intact?                                    | <input checked="" type="checkbox"/> | No |                |   |
| Reservations documented on Chain of Custody?              | <input checked="" type="checkbox"/> | No |                |   |
| Containers documented on Chain of Custody?                | <input checked="" type="checkbox"/> | No |                |   |
| Sufficient sample amount for indicated test?              | <input checked="" type="checkbox"/> | No |                |   |
| All samples received within sufficient hold time?         | <input checked="" type="checkbox"/> | No |                |   |
| QC samples have zero headspace?                           | <input checked="" type="checkbox"/> | No | Not Applicable |   |

Other observations:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### Variance Documentation:

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
 Regarding: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

Corrective Action Taken:

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## Analytical and Quality Control Report

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

Report Date: July 21, 2006

Work Order: 6071227



Project Location: Lea County, NM  
Project Name: BD Junction K-27-1  
Project Number: BD Junction K-27-1

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

| Sample | Description     | Matrix | Date<br>Taken | Time<br>Taken | Date<br>Received |
|--------|-----------------|--------|---------------|---------------|------------------|
| 94963  | Monitor Well #1 | water  | 2006-07-10    | 10:45         | 2006-07-12       |

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: 94963 - Monitor Well #1

Analysis: Alkalinity      Analytical Method: SM 2320B      Prep Method: N/A  
QC Batch: 28009      Date Analyzed: 2006-07-14      Analyzed By: LJ  
Prep Batch: 24539      Sample Preparation: 2006-07-14      Prepared By: LJ

| Parameter              | Flag | RL<br>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 |      | 350          | mg/L as CaCo3 | 1        | 4.00 |
| Total Alkalinity       |      | 350          | mg/L as CaCo3 | 1        | 4.00 |

### Sample: 94963 - Monitor Well #1

Analysis: BTEX      Analytical Method: S 8021B      Prep Method: S 5030B  
QC Batch: 27996      Date Analyzed: 2006-07-13      Analyzed By: KB  
Prep Batch: 24529      Sample Preparation: 2006-07-13      Prepared By: KB

| Parameter    | Flag | RL<br>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<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.102  | mg/L  | 1        | 0.100           | 102                 | 66.2 - 127.7       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0897 | mg/L  | 1        | 0.100           | 90                  | 70.6 - 129.2       |

### Sample: 94963 - Monitor Well #1

Analysis: Cations      Analytical Method: S 6010B      Prep Method: S 3005A  
QC Batch: 28124      Date Analyzed: 2006-07-18      Analyzed By: TP  
Prep Batch: 24582      Sample Preparation: 2006-07-17      Prepared By: TS

| Parameter           | Flag | RL<br>Result | Units | Dilution | RL    |
|---------------------|------|--------------|-------|----------|-------|
| Dissolved Calcium   |      | 175          | mg/L  | 10       | 0.500 |
| Dissolved Potassium |      | 13.4         | mg/L  | 1        | 1.00  |
| Dissolved Magnesium |      | 69.4         | mg/L  | 1        | 1.00  |
| Dissolved Sodium    |      | 330          | mg/L  | 10       | 1.00  |

### Sample: 94963 - Monitor Well #1

Analysis: Ion Chromatography      Analytical Method: E 300.0      Prep Method: N/A  
QC Batch: 28174      Date Analyzed: 2006-07-19      Analyzed By: WB  
Prep Batch: 24649      Sample Preparation: 2007-07-19      Prepared By: WB

| Parameter | Flag | RL<br>Result | Units | Dilution | RL    |
|-----------|------|--------------|-------|----------|-------|
| Chloride  |      | <b>430</b>   | mg/L  | 100      | 0.500 |
| Sulfate   |      | <b>604</b>   | mg/L  | 100      | 0.500 |

**Sample: 94963 - Monitor Well #1**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TDS     | Analytical Method: SM 2540C    | Prep Method: N/A |
| QC Batch: 28154   | Date Analyzed: 2006-07-18      | Analyzed By: WB  |
| Prep Batch: 24647 | Sample Preparation: 2006-07-17 | Prepared By: WB  |

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Total Dissolved Solids |      | <b>1830</b>  | mg/L  | 2        | 10.00 |

**Method Blank (1) QC Batch: 27996**

|                   |                            |                 |
|-------------------|----------------------------|-----------------|
| QC Batch: 27996   | Date Analyzed: 2006-07-13  | Analyzed By: KB |
| Prep Batch: 24529 | QC Preparation: 2006-07-13 | Prepared By: KB |

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000255     | mg/L  | 0.001 |
| Toluene      |      | <0.000210     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000317     | mg/L  | 0.001 |
| Xylene       |      | <0.000603     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.101  | mg/L  | 1        | 0.100           | 101                 | 76.1 - 117         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0888 | mg/L  | 1        | 0.100           | 89                  | 58.5 - 118         |

**Method Blank (1) QC Batch: 28009**

|                   |                            |                 |
|-------------------|----------------------------|-----------------|
| QC Batch: 28009   | Date Analyzed: 2006-07-14  | Analyzed By: LJ |
| Prep Batch: 24539 | QC Preparation: 2006-07-14 | Prepared By: LJ |

| Parameter              | Flag | MDL<br>Result | Units         | RL |
|------------------------|------|---------------|---------------|----|
| Hydroxide Alkalinity   |      | <1.00         | mg/L as CaCo3 | 1  |
| Carbonate Alkalinity   |      | <1.00         | mg/L as CaCo3 | 1  |
| Bicarbonate Alkalinity |      | <4.00         | mg/L as CaCo3 | 4  |
| Total Alkalinity       |      | <4.00         | mg/L as CaCo3 | 4  |

**Method Blank (1)**    QC Batch: 28124

QC Batch: 28124  
Prep Batch: 24582

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: TP  
Prepared By: TS

| Parameter           | Flag | MDL<br>Result | Units | RL  |
|---------------------|------|---------------|-------|-----|
| Dissolved Calcium   |      | <0.0950       | mg/L  | 0.5 |
| Dissolved Potassium |      | 0.612         | mg/L  | 1   |
| Dissolved Magnesium |      | <0.704        | mg/L  | 1   |
| Dissolved Sodium    |      | 0.709         | mg/L  | 1   |

**Method Blank (1)**    QC Batch: 28154

QC Batch: 28154  
Prep Batch: 24647

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: WB  
Prepared By: WB

| Parameter              | Flag | MDL<br>Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids |      | <5.000        | mg/L  | 10 |

**Method Blank (1)**    QC Batch: 28174

QC Batch: 28174  
Prep Batch: 24649

Date Analyzed: 2006-07-19  
QC Preparation: 2006-07-19

Analyzed By: WB  
Prepared By: WB

| Parameter | Flag | MDL<br>Result | Units | RL  |
|-----------|------|---------------|-------|-----|
| Chloride  |      | <0.0181       | mg/L  | 0.5 |
| Sulfate   |      | <0.0485       | mg/L  | 0.5 |

**Duplicates (1)**

QC Batch: 28009  
Prep Batch: 24539

Date Analyzed: 2006-07-14  
QC Preparation: 2006-07-14

Analyzed By: LJ  
Prepared By: LJ

| Param                  | Duplicate<br>Result | Sample<br>Result | Units         | Dilution | RPD | RPD<br>Limit |
|------------------------|---------------------|------------------|---------------|----------|-----|--------------|
| Hydroxide Alkalinity   | <1.00               | <1.00            | mg/L as CaCo3 | 1        | 0   | 20           |
| Carbonate Alkalinity   | <1.00               | <1.00            | mg/L as CaCo3 | 1        | 0   | 20           |
| Bicarbonate Alkalinity | 252                 | 256              | mg/L as CaCo3 | 1        | 2   | 12.6         |
| Total Alkalinity       | 252                 | 256              | mg/L as CaCo3 | 1        | 2   | 11.5         |

**Duplicates (1)**

QC Batch: 28154  
Prep Batch: 24647

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: WB  
Prepared By: WB

| Param                  | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids | 2000             | 2070          | mg/L  | 2        | 3   | 17.2      |

#### Laboratory Control Spike (LCS-1)

QC Batch: 27996  
Prep Batch: 24529

Date Analyzed: 2006-07-13  
QC Preparation: 2006-07-13

Analyzed By: KB  
Prepared By: KB

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Benzene      | 0.106      | 0.104       | mg/L  | 1    | 0.100        | <0.000255     | 106  | 2   | 80.8 - 112 | 20        |
| Toluene      | 0.105      | 0.103       | mg/L  | 1    | 0.100        | <0.000210     | 105  | 2   | 78 - 114   | 20        |
| Ethylbenzene | 0.106      | 0.104       | mg/L  | 1    | 0.100        | <0.000317     | 106  | 2   | 78.6 - 116 | 20        |
| Xylene       | 0.319      | 0.315       | mg/L  | 1    | 0.300        | <0.000603     | 106  | 1   | 83.2 - 112 | 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)       | 0.104      | 0.102       | mg/L  | 1    | 0.100        | 104      | 102       | 79.9 - 117 |
| 4-Bromofluorobenzene (4-BFB) | 0.0981     | 0.0979      | mg/L  | 1    | 0.100        | 98       | 98        | 79 - 123   |

#### Laboratory Control Spike (LCS-1)

QC Batch: 28124  
Prep Batch: 24582

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: TP  
Prepared By: TS

| Param               | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Dissolved Calcium   | 50.0       | 49.6        | mg/L  | 1    | 50.0         | <0.0950       | 100  | 1   | 85 - 115   | 20        |
| Dissolved Potassium | 50.3       | 50.3        | mg/L  | 1    | 50.0         | <0.377        | 101  | 0   | 85 - 113   | 20        |
| Dissolved Magnesium | 50.6       | 49.4        | mg/L  | 1    | 50.0         | <0.704        | 101  | 2   | 85 - 113   | 20        |
| Dissolved Sodium    | 49.2       | 49.5        | mg/L  | 1    | 50.0         | <0.261        | 98   | 1   | 85 - 111   | 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: 28174  
Prep Batch: 24649

Date Analyzed: 2006-07-19  
QC Preparation: 2006-07-19

Analyzed By: WB  
Prepared By: WB

| Param    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Chloride | 12.0       | 11.9        | mg/L  | 1    | 12.5         | <0.0181       | 96   | 1   | 90 - 110   | 20        |
| Sulfate  | 12.3       | 12.4        | mg/L  | 1    | 12.5         | <0.0485       | 98   | 1   | 90 - 110   | 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: 94963

QC Batch: 27996  
Prep Batch: 24529

Date Analyzed: 2006-07-13  
QC Preparation: 2006-07-13

Analyzed By: KB  
Prepared By: KB

| Param        |              | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|--------------|--------------|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| Benzene      | <sup>1</sup> | 0.114        | NA            | mg/L  | 1    | 0.100           | <0.000255        | 114  | 200 | 70.9 - 126    | 20           |
| Toluene      | <sup>2</sup> | 0.113        | NA            | mg/L  | 1    | 0.100           | <0.000210        | 113  | 200 | 70.8 - 125    | 20           |
| Ethylbenzene | <sup>3</sup> | 0.114        | NA            | mg/L  | 1    | 0.100           | <0.000317        | 114  | 200 | 74.8 - 125    | 20           |
| Xylene       | <sup>4</sup> | 0.342        | NA            | mg/L  | 1    | 0.300           | <0.000603        | 114  | 200 | 75.7 - 126    | 20           |

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

| Surrogate                    |              | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|--------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | <sup>5</sup> | 0.102        | NA            | mg/L  | 1    | 0.1             | 102        | 0           | 73.6 - 121    |
| 4-Bromofluorobenzene (4-BFB) | <sup>6</sup> | 0.0970       | NA            | mg/L  | 1    | 0.1             | 97         | 0           | 81.8 - 114    |

**Matrix Spike (MS-1)** Spiked Sample: 94963

QC Batch: 28124  
Prep Batch: 24582

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: TP  
Prepared By: TS

| Param               |  | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|---------------------|--|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| Dissolved Calcium   |  | 223          | 231           | mg/L  | 1    | 50.0            | 175              | 96   | 4   | 68.4 - 138    | 20           |
| Dissolved Potassium |  | 63.7         | 64.8          | mg/L  | 1    | 50.0            | 13.4             | 101  | 2   | 82 - 129      | 20           |
| Dissolved Magnesium |  | 121          | 119           | mg/L  | 1    | 50.0            | 69.4             | 103  | 2   | 61.2 - 135    | 20           |
| Dissolved Sodium    |  | 377          | 386           | mg/L  | 1    | 50.0            | 330              | 94   | 2   | 81.8 - 125    | 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: 94963

QC Batch: 28174  
Prep Batch: 24649

Date Analyzed: 2006-07-19  
QC Preparation: 2006-07-19

Analyzed By: WB  
Prepared By: WB

| Param    |  | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | RPD | Rec.<br>Limit | RPD<br>Limit |
|----------|--|--------------|---------------|-------|------|-----------------|------------------|------|-----|---------------|--------------|
| Chloride |  | 1610         | 1600          | mg/L  | 100  | 12.5            | 430              | 94   | 1   | 25.4 - 171    | 20           |
| Sulfate  |  | 1840         | 1840          | mg/L  | 100  | 12.5            | 604              | 99   | 0   | 0 - 677       | 20           |

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

<sup>1</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>2</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>3</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>4</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>5</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>6</sup>RPD is out of range because a matrix spike duplicate was not prepared.

**Standard (ICV-1)**

QC Batch: 27996

Date Analyzed: 2006-07-13

Analyzed By: KB

| Param        | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.106                  | 106                         | 85 - 115                      | 2006-07-13       |
| Toluene      |      | mg/L  | 0.100                 | 0.106                  | 106                         | 85 - 115                      | 2006-07-13       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.107                  | 107                         | 85 - 115                      | 2006-07-13       |
| Xylene       |      | mg/L  | 0.300                 | 0.318                  | 106                         | 85 - 115                      | 2006-07-13       |

**Standard (CCV-1)**

QC Batch: 27996

Date Analyzed: 2006-07-13

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.106                  | 106                         | 85 - 115                      | 2006-07-13       |
| Toluene      |      | mg/L  | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2006-07-13       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.108                  | 108                         | 85 - 115                      | 2006-07-13       |
| Xylene       |      | mg/L  | 0.300                 | 0.320                  | 107                         | 85 - 115                      | 2006-07-13       |

**Standard (ICV-1)**

QC Batch: 28009

Date Analyzed: 2006-07-14

Analyzed By: LJ

| Param            | Flag | Units         | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Alkalinity |      | mg/L as CaCo3 | 250                   | 260                    | 104                         | 90 - 110                      | 2006-07-14       |

**Standard (CCV-1)**

QC Batch: 28009

Date Analyzed: 2006-07-14

Analyzed By: LJ

| Param            | Flag | Units         | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Alkalinity |      | mg/L as CaCo3 | 250                   | 256                    | 102                         | 90 - 110                      | 2006-07-14       |

**Standard (ICV-1)**

QC Batch: 28124

Date Analyzed: 2006-07-18

Analyzed By: TP

| Param               | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium   |      | mg/L  | 50.0                  | 49.2                   | 98                          | 90 - 110                      | 2006-07-18       |
| Dissolved Potassium |      | mg/L  | 50.0                  | 51.9                   | 104                         | 90 - 110                      | 2006-07-18       |
| Dissolved Magnesium |      | mg/L  | 50.0                  | 48.8                   | 98                          | 90 - 110                      | 2006-07-18       |

*continued ...*

standard continued ...

| Param            | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Sodium |      | mg/L  | 50.0                  | 51.8                   | 104                         | 90 - 110                      | 2006-07-18       |

**Standard (CCV-1)**

QC Batch: 28124

Date Analyzed: 2006-07-18

Analyzed By: TP

| Param               | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium   |      | mg/L  | 50.0                  | 51.4                   | 103                         | 90 - 110                      | 2006-07-18       |
| Dissolved Potassium |      | mg/L  | 50.0                  | 52.1                   | 104                         | 90 - 110                      | 2006-07-18       |
| Dissolved Magnesium |      | mg/L  | 50.0                  | 51.5                   | 103                         | 90 - 110                      | 2006-07-18       |
| Dissolved Sodium    |      | mg/L  | 50.0                  | 51.9                   | 104                         | 90 - 110                      | 2006-07-18       |

**Standard (ICV-1)**

QC Batch: 28154

Date Analyzed: 2006-07-18

Analyzed By: WB

| Param                  | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Dissolved Solids |      | mg/L  | 1000                  | 1067                   | 107                         | 90 - 110                      | 2006-07-18       |

**Standard (CCV-1)**

QC Batch: 28154

Date Analyzed: 2006-07-18

Analyzed By: WB

| Param                  | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Dissolved Solids |      | mg/L  | 1000                  | 1009                   | 101                         | 90 - 110                      | 2006-07-18       |

**Standard (ICV-1)**

QC Batch: 28174

Date Analyzed: 2006-07-19

Analyzed By: WB

| Param    | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |      | mg/L  | 12.5                  | 12.0                   | 96                          | 90 - 110                      | 2006-07-19       |
| Sulfate  |      | mg/L  | 12.5                  | 12.6                   | 101                         | 90 - 110                      | 2006-07-19       |

**Standard (CCV-1)**

QC Batch: 28174

Date Analyzed: 2006-07-19

Analyzed By: WB

Report Date: July 21, 2006  
BD Junction K-27-1

Work Order: 6071227  
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Lea County,NM

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |      | mg/L  | 12.5                  | 12.0                   | 96                          | 90 - 110                      | 2006-07-19       |
| Sulfate  |      | mg/L  | 12.5                  | 12.4                   | 99                          | 90 - 110                      | 2006-07-19       |

[illegible]



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## Analytical and Quality Control Report

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

Report Date: July 21, 2006

Work Order: 6071305



Project Location: Lea County, New Mexico  
Project Name: BD Juntion K-27 North  
Project Number: BD Juntion K-27 North

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 |
|--------|-----------------|--------|------------|------------|---------------|
| 94978  | Monitor Well #1 | water  | 2006-07-10 | 09:00      | 2006-07-12    |

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: 94978 - Monitor Well #1

|             |            |                     |            |              |     |
|-------------|------------|---------------------|------------|--------------|-----|
| Analysis:   | Alkalinity | Analytical Method:  | SM 2320B   | Prep Method: | N/A |
| QC Batch:   | 28009      | Date Analyzed:      | 2006-07-14 | Analyzed By: | LJ  |
| Prep Batch: | 24539      | Sample Preparation: | 2006-07-14 | Prepared By: | LJ  |

| Parameter              | Flag | RL<br>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 |      | 256          | mg/L as CaCo3 | 1        | 4.00 |
| Total Alkalinity       |      | 256          | mg/L as CaCo3 | 1        | 4.00 |

### Sample: 94978 - Monitor Well #1

|             |       |                     |            |              |         |
|-------------|-------|---------------------|------------|--------------|---------|
| Analysis:   | BTEX  | Analytical Method:  | S 8021B    | Prep Method: | S 5030B |
| QC Batch:   | 27996 | Date Analyzed:      | 2006-07-13 | Analyzed By: | KB      |
| Prep Batch: | 24529 | Sample Preparation: | 2006-07-13 | Prepared By: | KB      |

| Parameter    | Flag | RL<br>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<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0993 | mg/L  | 1        | 0.100           | 99                  | 66.2 - 127.7       |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0855 | mg/L  | 1        | 0.100           | 86                  | 70.6 - 129.2       |

### Sample: 94978 - Monitor Well #1

|             |         |                     |            |              |         |
|-------------|---------|---------------------|------------|--------------|---------|
| Analysis:   | Cations | Analytical Method:  | S 6010B    | Prep Method: | S 3005A |
| QC Batch:   | 28124   | Date Analyzed:      | 2006-07-18 | Analyzed By: | TP      |
| Prep Batch: | 24582   | Sample Preparation: | 2006-07-17 | Prepared By: | TS      |

| Parameter           | Flag | RL<br>Result | Units | Dilution | RL    |
|---------------------|------|--------------|-------|----------|-------|
| Dissolved Calcium   |      | 195          | mg/L  | 10       | 0.500 |
| Dissolved Potassium |      | 14.6         | mg/L  | 1        | 1.00  |
| Dissolved Magnesium |      | 94.7         | mg/L  | 1        | 1.00  |
| Dissolved Sodium    |      | 294          | mg/L  | 10       | 1.00  |

### Sample: 94978 - Monitor Well #1

|             |                    |                     |            |              |     |
|-------------|--------------------|---------------------|------------|--------------|-----|
| Analysis:   | Ion Chromatography | Analytical Method:  | E 300.0    | Prep Method: | N/A |
| QC Batch:   | 28176              | Date Analyzed:      | 2006-07-19 | Analyzed By: | WB  |
| Prep Batch: | 24651              | Sample Preparation: | 2007-07-19 | Prepared By: | WB  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL    |
|-----------|------|--------------|-------|----------|-------|
| Chloride  |      | 704          | mg/L  | 100      | 0.500 |
| Sulfate   |      | 462          | mg/L  | 100      | 0.500 |

**Sample: 94978 - Monitor Well #1**

|                   |                                |                  |
|-------------------|--------------------------------|------------------|
| Analysis: TDS     | Analytical Method: SM 2540C    | Prep Method: N/A |
| QC Batch: 28154   | Date Analyzed: 2006-07-18      | Analyzed By: WB  |
| Prep Batch: 24647 | Sample Preparation: 2006-07-17 | Prepared By: WB  |

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Total Dissolved Solids |      | 2070         | mg/L  | 5        | 10.00 |

**Method Blank (1) QC Batch: 27996**

|                   |                            |                 |
|-------------------|----------------------------|-----------------|
| QC Batch: 27996   | Date Analyzed: 2006-07-13  | Analyzed By: KB |
| Prep Batch: 24529 | QC Preparation: 2006-07-13 | Prepared By: KB |

| Parameter    | Flag | MDL<br>Result | Units | RL    |
|--------------|------|---------------|-------|-------|
| Benzene      |      | <0.000255     | mg/L  | 0.001 |
| Toluene      |      | <0.000210     | mg/L  | 0.001 |
| Ethylbenzene |      | <0.000317     | mg/L  | 0.001 |
| Xylene       |      | <0.000603     | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.101  | mg/L  | 1        | 0.100           | 101                 | 76.1 - 117         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0888 | mg/L  | 1        | 0.100           | 89                  | 58.5 - 118         |

**Method Blank (1) QC Batch: 28009**

|                   |                            |                 |
|-------------------|----------------------------|-----------------|
| QC Batch: 28009   | Date Analyzed: 2006-07-14  | Analyzed By: LJ |
| Prep Batch: 24539 | QC Preparation: 2006-07-14 | Prepared By: LJ |

| Parameter              | Flag | MDL<br>Result | Units         | RL |
|------------------------|------|---------------|---------------|----|
| Hydroxide Alkalinity   |      | <1.00         | mg/L as CaCo3 | 1  |
| Carbonate Alkalinity   |      | <1.00         | mg/L as CaCo3 | 1  |
| Bicarbonate Alkalinity |      | <4.00         | mg/L as CaCo3 | 4  |
| Total Alkalinity       |      | <4.00         | mg/L as CaCo3 | 4  |

Report Date: July 21, 2006  
BD Juntion K-27 North

Work Order: 6071305  
BD Juntion K-27 North

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**Method Blank (1)** QC Batch: 28124

QC Batch: 28124  
Prep Batch: 24582

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: TP  
Prepared By: TS

| Parameter           | Flag | MDL<br>Result | Units | RL  |
|---------------------|------|---------------|-------|-----|
| Dissolved Calcium   |      | <0.0950       | mg/L  | 0.5 |
| Dissolved Potassium |      | 0.612         | mg/L  | 1   |
| Dissolved Magnesium |      | <0.704        | mg/L  | 1   |
| Dissolved Sodium    |      | 0.709         | mg/L  | 1   |

**Method Blank (1)** QC Batch: 28154

QC Batch: 28154  
Prep Batch: 24647

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: WB  
Prepared By: WB

| Parameter              | Flag | MDL<br>Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids |      | <5.000        | mg/L  | 10 |

**Method Blank (1)** QC Batch: 28176

QC Batch: 28176  
Prep Batch: 24651

Date Analyzed: 2006-07-19  
QC Preparation: 2006-07-19

Analyzed By: WB  
Prepared By: WB

| Parameter | Flag | MDL<br>Result | Units | RL  |
|-----------|------|---------------|-------|-----|
| Chloride  |      | <0.0181       | mg/L  | 0.5 |
| Sulfate   |      | <0.0485       | mg/L  | 0.5 |

**Duplicates (1)**

QC Batch: 28009  
Prep Batch: 24539

Date Analyzed: 2006-07-14  
QC Preparation: 2006-07-14

Analyzed By: LJ  
Prepared By: LJ

| Param                  | Duplicate<br>Result | Sample<br>Result | Units         | Dilution | RPD | RPD<br>Limit |
|------------------------|---------------------|------------------|---------------|----------|-----|--------------|
| Hydroxide Alkalinity   | <1.00               | <1.00            | mg/L as CaCo3 | 1        | 0   | 20           |
| Carbonate Alkalinity   | <1.00               | <1.00            | mg/L as CaCo3 | 1        | 0   | 20           |
| Bicarbonate Alkalinity | 252                 | 256              | mg/L as CaCo3 | 1        | 2   | 12.6         |
| Total Alkalinity       | 252                 | 256              | mg/L as CaCo3 | 1        | 2   | 11.5         |

**Duplicates (1)**

QC Batch: 28154  
Prep Batch: 24647

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: WB  
Prepared By: WB

| Param                  | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids | 2000             | 2070          | mg/L  | 2        | 3   | 17.2      |

#### Laboratory Control Spike (LCS-1)

QC Batch: 27996  
Prep Batch: 24529

Date Analyzed: 2006-07-13  
QC Preparation: 2006-07-13

Analyzed By: KB  
Prepared By: KB

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Benzene      | 0.106      | 0.104       | mg/L  | 1    | 0.100        | <0.000255     | 106  | 2   | 80.8 - 112 | 20        |
| Toluene      | 0.105      | 0.103       | mg/L  | 1    | 0.100        | <0.000210     | 105  | 2   | 78 - 114   | 20        |
| Ethylbenzene | 0.106      | 0.104       | mg/L  | 1    | 0.100        | <0.000317     | 106  | 2   | 78.6 - 116 | 20        |
| Xylene       | 0.319      | 0.315       | mg/L  | 1    | 0.300        | <0.000603     | 106  | 1   | 83.2 - 112 | 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)       | 0.104      | 0.102       | mg/L  | 1    | 0.100        | 104      | 102       | 79.9 - 117 |
| 4-Bromofluorobenzene (4-BFB) | 0.0981     | 0.0979      | mg/L  | 1    | 0.100        | 98       | 98        | 79 - 123   |

#### Laboratory Control Spike (LCS-1)

QC Batch: 28124  
Prep Batch: 24582

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: TP  
Prepared By: TS

| Param               | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Dissolved Calcium   | 50.0       | 49.6        | mg/L  | 1    | 50.0         | <0.0950       | 100  | 1   | 85 - 115   | 20        |
| Dissolved Potassium | 50.3       | 50.3        | mg/L  | 1    | 50.0         | <0.377        | 101  | 0   | 85 - 113   | 20        |
| Dissolved Magnesium | 50.6       | 49.4        | mg/L  | 1    | 50.0         | <0.704        | 101  | 2   | 85 - 113   | 20        |
| Dissolved Sodium    | 49.2       | 49.5        | mg/L  | 1    | 50.0         | <0.261        | 98   | 1   | 85 - 111   | 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: 28176  
Prep Batch: 24651

Date Analyzed: 2006-07-19  
QC Preparation: 2006-07-19

Analyzed By: WB  
Prepared By: WB

| Param    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Chloride | 12.1       | 12.0        | mg/L  | 1    | 12.5         | <0.0181       | 97   | 1   | 90 - 110   | 20        |
| Sulfate  | 12.5       | 12.5        | mg/L  | 1    | 12.5         | <0.0485       | 100  | 0   | 90 - 110   | 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: 94963**

QC Batch: 27996  
Prep Batch: 24529

Date Analyzed: 2006-07-13  
QC Preparation: 2006-07-13

Analyzed By: KB  
Prepared By: KB

| Param        | MS Result          | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|--------------|--------------------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Benzene      | <sup>1</sup> 0.114 | NA         | mg/L  | 1    | 0.100        | <0.000255     | 114  | 200 | 70.9 - 126 | 20        |
| Toluene      | <sup>2</sup> 0.113 | NA         | mg/L  | 1    | 0.100        | <0.000210     | 113  | 200 | 70.8 - 125 | 20        |
| Ethylbenzene | <sup>3</sup> 0.114 | NA         | mg/L  | 1    | 0.100        | <0.000317     | 114  | 200 | 74.8 - 125 | 20        |
| Xylene       | <sup>4</sup> 0.342 | NA         | mg/L  | 1    | 0.300        | <0.000603     | 114  | 200 | 75.7 - 126 | 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)       | <sup>5</sup> 0.102  | NA         | mg/L  | 1    | 0.1          | 102     | 0        | 73.6 - 121 |
| 4-Bromofluorobenzene (4-BFB) | <sup>6</sup> 0.0970 | NA         | mg/L  | 1    | 0.1          | 97      | 0        | 81.8 - 114 |

**Matrix Spike (MS-1) Spiked Sample: 94963**

QC Batch: 28124  
Prep Batch: 24582

Date Analyzed: 2006-07-18  
QC Preparation: 2006-07-17

Analyzed By: TP  
Prepared By: TS

| Param               | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---------------------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Dissolved Calcium   | 223       | 231        | mg/L  | 1    | 50.0         | 175           | 96   | 4   | 68.4 - 138 | 20        |
| Dissolved Potassium | 63.7      | 64.8       | mg/L  | 1    | 50.0         | 13.4          | 101  | 2   | 82 - 129   | 20        |
| Dissolved Magnesium | 121       | 119        | mg/L  | 1    | 50.0         | 69.4          | 103  | 2   | 61.2 - 135 | 20        |
| Dissolved Sodium    | 377       | 386        | mg/L  | 1    | 50.0         | 330           | 94   | 2   | 81.8 - 125 | 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: 94819**

QC Batch: 28176  
Prep Batch: 24651

Date Analyzed: 2006-07-19  
QC Preparation: 2006-07-19

Analyzed By: WB  
Prepared By: WB

| Param    | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|----------|-----------|------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Chloride | 847       | 797        | mg/L  | 50   | 12.5         | 246           | 96   | 6   | 25.4 - 171 | 20        |
| Sulfate  | 766       | 748        | mg/L  | 50   | 12.5         | 140           | 100  | 2   | 0 - 677    | 20        |

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

<sup>1</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>2</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>3</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>4</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>5</sup>RPD is out of range because a matrix spike duplicate was not prepared.

<sup>6</sup>RPD is out of range because a matrix spike duplicate was not prepared.

**Standard (ICV-1)**

QC Batch: 27996

Date Analyzed: 2006-07-13

Analyzed By: KB

| Param        | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.106                  | 106                         | 85 - 115                      | 2006-07-13       |
| Toluene      |      | mg/L  | 0.100                 | 0.106                  | 106                         | 85 - 115                      | 2006-07-13       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.107                  | 107                         | 85 - 115                      | 2006-07-13       |
| Xylene       |      | mg/L  | 0.300                 | 0.318                  | 106                         | 85 - 115                      | 2006-07-13       |

**Standard (CCV-1)**

QC Batch: 27996

Date Analyzed: 2006-07-13

Analyzed By: KB

| Param        | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.106                  | 106                         | 85 - 115                      | 2006-07-13       |
| Toluene      |      | mg/L  | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2006-07-13       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.108                  | 108                         | 85 - 115                      | 2006-07-13       |
| Xylene       |      | mg/L  | 0.300                 | 0.320                  | 107                         | 85 - 115                      | 2006-07-13       |

**Standard (ICV-1)**

QC Batch: 28009

Date Analyzed: 2006-07-14

Analyzed By: LJ

| Param            | Flag | Units         | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Alkalinity |      | mg/L as CaCo3 | 250                   | 260                    | 104                         | 90 - 110                      | 2006-07-14       |

**Standard (CCV-1)**

QC Batch: 28009

Date Analyzed: 2006-07-14

Analyzed By: LJ

| Param            | Flag | Units         | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Alkalinity |      | mg/L as CaCo3 | 250                   | 256                    | 102                         | 90 - 110                      | 2006-07-14       |

**Standard (ICV-1)**

QC Batch: 28124

Date Analyzed: 2006-07-18

Analyzed By: TP

| Param               | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium   |      | mg/L  | 50.0                  | 49.2                   | 98                          | 90 - 110                      | 2006-07-18       |
| Dissolved Potassium |      | mg/L  | 50.0                  | 51.9                   | 104                         | 90 - 110                      | 2006-07-18       |
| Dissolved Magnesium |      | mg/L  | 50.0                  | 48.8                   | 98                          | 90 - 110                      | 2006-07-18       |

*continued ...*

standard continued ...

| Param            | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Sodium |      | mg/L  | 50.0                  | 51.8                   | 104                         | 90 - 110                      | 2006-07-18       |

**Standard (CCV-1)**

QC Batch: 28124

Date Analyzed: 2006-07-18

Analyzed By: TP

| Param               | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium   |      | mg/L  | 50.0                  | 51.4                   | 103                         | 90 - 110                      | 2006-07-18       |
| Dissolved Potassium |      | mg/L  | 50.0                  | 52.1                   | 104                         | 90 - 110                      | 2006-07-18       |
| Dissolved Magnesium |      | mg/L  | 50.0                  | 51.5                   | 103                         | 90 - 110                      | 2006-07-18       |
| Dissolved Sodium    |      | mg/L  | 50.0                  | 51.9                   | 104                         | 90 - 110                      | 2006-07-18       |

**Standard (ICV-1)**

QC Batch: 28154

Date Analyzed: 2006-07-18

Analyzed By: WB

| Param                  | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Dissolved Solids |      | mg/L  | 1000                  | 1067                   | 107                         | 90 - 110                      | 2006-07-18       |

**Standard (CCV-1)**

QC Batch: 28154

Date Analyzed: 2006-07-18

Analyzed By: WB

| Param                  | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Dissolved Solids |      | mg/L  | 1000                  | 1009                   | 101                         | 90 - 110                      | 2006-07-18       |

**Standard (ICV-1)**

QC Batch: 28176

Date Analyzed: 2006-07-19

Analyzed By: WB

| Param    | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |      | mg/L  | 12.5                  | 12.0                   | 96                          | 90 - 110                      | 2006-07-19       |
| Sulfate  |      | mg/L  | 12.5                  | 12.4                   | 99                          | 90 - 110                      | 2006-07-19       |

**Standard (CCV-1)**

QC Batch: 28176

Date Analyzed: 2006-07-19

Analyzed By: WB

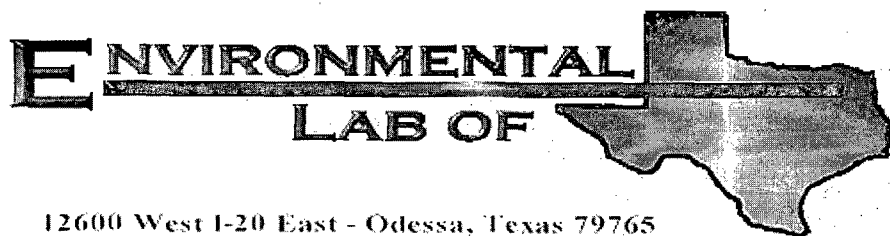
Report Date: July 21, 2006  
BD Juntion K-27 North

Work Order: 6071305  
BD Juntion K-27 North

Page Number: 9 of 10  
Lea County, New Mexico

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |      | mg/L  | 12.5                  | 12.0                   | 96                          | 90 - 110                      | 2006-07-19       |
| Sulfate  |      | mg/L  | 12.5                  | 12.6                   | 100                         | 90 - 110                      | 2006-07-19       |

[illegible]



## Analytical Report

**Prepared for:**

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD Jct. K-27

Project Number: None Given

Location: Lea County

Lab Order Number: 6H11011

Report Date: 08/18/06

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

Project: BD Jct, K-27  
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 #2 | 6H11011-01    | Water  | 08/10/06 08:15 | 08-11-2006 10:15 |
| Monitor Well #3 | 6H11011-02    | Water  | 08/10/06 09:55 | 08-11-2006 10:15 |
| Monitor Well #4 | 6H11011-03    | Water  | 08/10/06 09:05 | 08-11-2006 10:15 |
| Monitor Well #5 | 6H11011-04    | Water  | 08/10/06 10:45 | 08-11-2006 10:15 |

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

Project: BD Jct. K-27  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                                   | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>Monitor Well #2 (6H11011-01) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                   | ND     | 0.00100            | mg/L   | 1        | EH61419 | 08/14/06 | 08/15/06 | EPA 8021B |       |
| Toluene                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                              | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                              | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (o)                                | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene         |        | 91.2 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene           |        | 87.8 %             | 80-120 |          | "       | "        | "        | "         |       |
| <b>Monitor Well #3 (6H11011-02) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                   | ND     | 0.00100            | mg/L   | 1        | EH61513 | 08/15/06 | 08/15/06 | EPA 8021B |       |
| Toluene                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                              | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                              | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (o)                                | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene         |        | 90.2 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene           |        | 80.0 %             | 80-120 |          | "       | "        | "        | "         |       |
| <b>Monitor Well #4 (6H11011-03) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                   | ND     | 0.00100            | mg/L   | 1        | EH61513 | 08/15/06 | 08/15/06 | EPA 8021B |       |
| Toluene                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                              | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                              | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (o)                                | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene         |        | 94.8 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene           |        | 90.0 %             | 80-120 |          | "       | "        | "        | "         |       |
| <b>Monitor Well #5 (6H11011-04) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                   | ND     | 0.00100            | mg/L   | 1        | EH61513 | 08/15/06 | 08/16/06 | EPA 8021B |       |
| Toluene                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                              | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                              | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (o)                                | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene         |        | 104 %              | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene           |        | 81.2 %             | 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.

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

Project: BD Jct. K-27  
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<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method     | Notes |
|-------------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|------------|-------|
| <b>Monitor Well #2 (6H11011-01) Water</b> |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                          | 280    | 2.00               | mg/L  | 1        | EH61505 | 08/14/06 | 08/14/06 | EPA 310.1M |       |
| Chloride                                  | 640    | 12.5               | "     | 25       | EH61108 | 08/11/06 | 08/11/06 | EPA 300.0  |       |
| Total Dissolved Solids                    | 2220   | 10.0               | "     | 1        | EH61614 | 08/15/06 | 08/16/06 | EPA 160.1  |       |
| Sulfate                                   | 308    | 12.5               | "     | 25       | EH61108 | 08/11/06 | 08/11/06 | EPA 300.0  |       |
| <b>Monitor Well #3 (6H11011-02) Water</b> |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                          | 350    | 2.00               | mg/L  | 1        | EH61505 | 08/14/06 | 08/14/06 | EPA 310.1M |       |
| Chloride                                  | 240    | 12.5               | "     | 25       | EH61108 | 08/11/06 | 08/11/06 | EPA 300.0  |       |
| Total Dissolved Solids                    | 1440   | 10.0               | "     | 1        | EH61614 | 08/15/06 | 08/16/06 | EPA 160.1  |       |
| Sulfate                                   | 317    | 12.5               | "     | 25       | EH61108 | 08/11/06 | 08/11/06 | EPA 300.0  |       |
| <b>Monitor Well #4 (6H11011-03) Water</b> |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                          | 316    | 2.00               | mg/L  | 1        | EH61505 | 08/14/06 | 08/14/06 | EPA 310.1M |       |
| Chloride                                  | 467    | 12.5               | "     | 25       | EH61108 | 08/11/06 | 08/11/06 | EPA 300.0  |       |
| Total Dissolved Solids                    | 2120   | 10.0               | "     | 1        | EH61614 | 08/15/06 | 08/16/06 | EPA 160.1  |       |
| Sulfate                                   | 515    | 12.5               | "     | 25       | EH61108 | 08/11/06 | 08/11/06 | EPA 300.0  |       |
| <b>Monitor Well #5 (6H11011-04) Water</b> |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                          | 436    | 2.00               | mg/L  | 1        | EH61505 | 08/14/06 | 08/14/06 | EPA 310.1M |       |
| Chloride                                  | 332    | 12.5               | "     | 25       | EH61108 | 08/11/06 | 08/11/06 | EPA 300.0  |       |
| Total Dissolved Solids                    | 2040   | 10.0               | "     | 1        | EH61614 | 08/15/06 | 08/16/06 | EPA 160.1  |       |
| Sulfate                                   | 597    | 12.5               | "     | 25       | EH61108 | 08/11/06 | 08/11/06 | EPA 300.0  |       |

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

Project: BD Jct. K-27  
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<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Monitor Well #2 (6H11011-01) Water</b> |        |                    |       |          |         |          |          |           |       |
| Calcium                                   | 246    | 0.500              | mg/L  | 50       | EH61420 | 08/14/06 | 08/14/06 | EPA 6010B |       |
| Magnesium                                 | 105    | 0.0500             | "     | "        | "       | "        | "        | "         |       |
| Potassium                                 | 9.93   | 0.500              | "     | 10       | "       | "        | "        | "         |       |
| Sodium                                    | 282    | 0.500              | "     | 50       | "       | "        | "        | "         |       |
| <b>Monitor Well #3 (6H11011-02) Water</b> |        |                    |       |          |         |          |          |           |       |
| Calcium                                   | 124    | 0.500              | mg/L  | 50       | EH61420 | 08/14/06 | 08/14/06 | EPA 6010B |       |
| Magnesium                                 | 59.0   | 0.0100             | "     | 10       | "       | "        | "        | "         |       |
| Potassium                                 | 7.42   | 0.500              | "     | "        | "       | "        | "        | "         |       |
| Sodium                                    | 215    | 0.500              | "     | 50       | "       | "        | "        | "         |       |
| <b>Monitor Well #4 (6H11011-03) Water</b> |        |                    |       |          |         |          |          |           |       |
| Calcium                                   | 198    | 0.500              | mg/L  | 50       | EH61420 | 08/14/06 | 08/14/06 | EPA 6010B |       |
| Magnesium                                 | 81.0   | 0.0500             | "     | "        | "       | "        | "        | "         |       |
| Potassium                                 | 9.45   | 0.500              | "     | 10       | "       | "        | "        | "         |       |
| Sodium                                    | 390    | 0.500              | "     | 50       | "       | "        | "        | "         |       |
| <b>Monitor Well #5 (6H11011-04) Water</b> |        |                    |       |          |         |          |          |           |       |
| Calcium                                   | 114    | 0.500              | mg/L  | 50       | EH61420 | 08/14/06 | 08/14/06 | EPA 6010B |       |
| Magnesium                                 | 53.0   | 0.0100             | "     | 10       | "       | "        | "        | "         |       |
| Potassium                                 | 8.12   | 0.500              | "     | "        | "       | "        | "        | "         |       |
| Sodium                                    | 504    | 0.500              | "     | 50       | "       | "        | "        | "         |       |

Environmental Lab of Texas

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

Project: BD Jct. K-27  
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 EH61419 - EPA 5030C (GC)**

**Blank (EH61419-BLK1)**

Prepared & Analyzed: 08/14/06

|                                   |      |         |      |      |  |      |        |  |  |  |
|-----------------------------------|------|---------|------|------|--|------|--------|--|--|--|
| 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: a,a,a-Trifluorotoluene | 36.9 |         | ug/l | 40.0 |  | 92.2 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 38.0 |         | "    | 40.0 |  | 95.0 | 80-120 |  |  |  |

**LCS (EH61419-BS1)**

Prepared & Analyzed: 08/14/06

|                                   |        |         |      |        |  |      |        |  |  |  |
|-----------------------------------|--------|---------|------|--------|--|------|--------|--|--|--|
| Benzene                           | 0.0467 | 0.00100 | mg/L | 0.0500 |  | 93.4 | 80-120 |  |  |  |
| Toluene                           | 0.0493 | 0.00100 | "    | 0.0500 |  | 98.6 | 80-120 |  |  |  |
| Ethylbenzene                      | 0.0516 | 0.00100 | "    | 0.0500 |  | 103  | 80-120 |  |  |  |
| Xylene (p/m)                      | 0.119  | 0.00100 | "    | 0.100  |  | 119  | 80-120 |  |  |  |
| Xylene (o)                        | 0.0576 | 0.00100 | "    | 0.0500 |  | 115  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 39.6   |         | ug/l | 40.0   |  | 99.0 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 47.1   |         | "    | 40.0   |  | 118  | 80-120 |  |  |  |

**Calibration Check (EH61419-CCV1)**

Prepared & Analyzed: 08/14/06

|                                   |      |  |      |      |  |      |        |  |  |  |
|-----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Benzene                           | 50.7 |  | ug/l | 50.0 |  | 101  | 80-120 |  |  |  |
| Toluene                           | 50.8 |  | "    | 50.0 |  | 102  | 80-120 |  |  |  |
| Ethylbenzene                      | 51.1 |  | "    | 50.0 |  | 102  | 80-120 |  |  |  |
| Xylene (p/m)                      | 106  |  | "    | 100  |  | 106  | 80-120 |  |  |  |
| Xylene (o)                        | 53.0 |  | "    | 50.0 |  | 106  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 37.5 |  | "    | 40.0 |  | 93.8 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 42.6 |  | "    | 40.0 |  | 106  | 80-120 |  |  |  |

**Matrix Spike (EH61419-MS1)**

Source: 6H14004-04

Prepared & Analyzed: 08/14/06

|                                   |        |         |      |        |    |      |        |  |  |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|--|--|--|
| Benzene                           | 0.0481 | 0.00100 | mg/L | 0.0500 | ND | 96.2 | 80-120 |  |  |  |
| Toluene                           | 0.0536 | 0.00100 | "    | 0.0500 | ND | 107  | 80-120 |  |  |  |
| Ethylbenzene                      | 0.0540 | 0.00100 | "    | 0.0500 | ND | 108  | 80-120 |  |  |  |
| Xylene (p/m)                      | 0.119  | 0.00100 | "    | 0.100  | ND | 119  | 80-120 |  |  |  |
| Xylene (o)                        | 0.0583 | 0.00100 | "    | 0.0500 | ND | 117  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 41.5   |         | ug/l | 40.0   |    | 104  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 48.0   |         | "    | 40.0   |    | 120  | 80-120 |  |  |  |

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

Project: BD Jct. K-27  
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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EH61419 - EPA 5030C (GC)**

**Matrix Spike Dup (EH61419-MSD1)**

Source: 6H14004-04

Prepared & Analyzed: 08/14/06

|                                   |        |         |      |        |    |      |        |      |    |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|------|----|--|
| Benzene                           | 0.0474 | 0.00100 | mg/L | 0.0500 | ND | 94.8 | 80-120 | 1.47 | 20 |  |
| Toluene                           | 0.0536 | 0.00100 | "    | 0.0500 | ND | 107  | 80-120 | 0.00 | 20 |  |
| Ethylbenzene                      | 0.0496 | 0.00100 | "    | 0.0500 | ND | 99.2 | 80-120 | 8.49 | 20 |  |
| Xylene (p/m)                      | 0.116  | 0.00100 | "    | 0.100  | ND | 116  | 80-120 | 2.55 | 20 |  |
| Xylene (o)                        | 0.0551 | 0.00100 | "    | 0.0500 | ND | 110  | 80-120 | 6.17 | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 38.2   |         | ug/l | 40.0   |    | 95.5 | 80-120 |      |    |  |
| Surrogate: 4-Bromofluorobenzene   | 47.8   |         | "    | 40.0   |    | 120  | 80-120 |      |    |  |

**Batch EH61513 - EPA 5030C (GC)**

**Blank (EH61513-BLK1)**

Prepared & Analyzed: 08/15/06

|                                   |      |         |      |      |  |      |        |  |  |  |
|-----------------------------------|------|---------|------|------|--|------|--------|--|--|--|
| 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 | 36.4 |         | ug/l | 40.0 |  | 91.0 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 32.1 |         | "    | 40.0 |  | 80.2 | 80-120 |  |  |  |

**LCS (EH61513-BS1)**

Prepared: 08/15/06 Analyzed: 08/16/06

|                                   |        |         |      |        |  |      |        |  |  |  |
|-----------------------------------|--------|---------|------|--------|--|------|--------|--|--|--|
| Benzene                           | 0.0460 | 0.00100 | mg/L | 0.0500 |  | 92.0 | 80-120 |  |  |  |
| Toluene                           | 0.0494 | 0.00100 | "    | 0.0500 |  | 98.8 | 80-120 |  |  |  |
| Ethylbenzene                      | 0.0510 | 0.00100 | "    | 0.0500 |  | 102  | 80-120 |  |  |  |
| Xylene (p/m)                      | 0.118  | 0.00100 | "    | 0.100  |  | 118  | 80-120 |  |  |  |
| Xylene (o)                        | 0.0560 | 0.00100 | "    | 0.0500 |  | 112  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 42.2   |         | ug/l | 40.0   |  | 106  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 44.7   |         | "    | 40.0   |  | 112  | 80-120 |  |  |  |

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

Project: BD Jct. K-27  
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 EH61513 - EPA 5030C (GC)**

**Calibration Check (EH61513-CCV1)**

Prepared & Analyzed: 08/15/06

|                                   |      |  |      |      |  |      |        |  |  |  |
|-----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Benzene                           | 50.1 |  | ug/l | 50.0 |  | 100  | 80-120 |  |  |  |
| Toluene                           | 52.7 |  | "    | 50.0 |  | 105  | 80-120 |  |  |  |
| Ethylbenzene                      | 52.8 |  | "    | 50.0 |  | 106  | 80-120 |  |  |  |
| Xylene (p/m)                      | 105  |  | "    | 100  |  | 105  | 80-120 |  |  |  |
| Xylene (o)                        | 50.1 |  | "    | 50.0 |  | 100  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 37.9 |  | "    | 40.0 |  | 94.8 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 43.7 |  | "    | 40.0 |  | 109  | 80-120 |  |  |  |

**Matrix Spike (EH61513-MS1)**

Source: 6H11011-04

Prepared & Analyzed: 08/15/06

|                                   |        |         |      |        |    |      |        |  |  |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|--|--|--|
| Benzene                           | 0.0475 | 0.00100 | mg/L | 0.0500 | ND | 95.0 | 80-120 |  |  |  |
| Toluene                           | 0.0528 | 0.00100 | "    | 0.0500 | ND | 106  | 80-120 |  |  |  |
| Ethylbenzene                      | 0.0523 | 0.00100 | "    | 0.0500 | ND | 105  | 80-120 |  |  |  |
| Xylene (p/m)                      | 0.110  | 0.00100 | "    | 0.100  | ND | 110  | 80-120 |  |  |  |
| Xylene (o)                        | 0.0546 | 0.00100 | "    | 0.0500 | ND | 109  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 40.2   |         | ug/l | 40.0   |    | 100  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 45.1   |         | "    | 40.0   |    | 113  | 80-120 |  |  |  |

**Matrix Spike Dup (EH61513-MSD1)**

Source: 6H11011-04

Prepared & Analyzed: 08/15/06

|                                   |        |         |      |        |    |     |        |      |    |  |
|-----------------------------------|--------|---------|------|--------|----|-----|--------|------|----|--|
| Benzene                           | 0.0508 | 0.00100 | mg/L | 0.0500 | ND | 102 | 80-120 | 7.11 | 20 |  |
| Toluene                           | 0.0565 | 0.00100 | "    | 0.0500 | ND | 113 | 80-120 | 6.39 | 20 |  |
| Ethylbenzene                      | 0.0535 | 0.00100 | "    | 0.0500 | ND | 107 | 80-120 | 1.89 | 20 |  |
| Xylene (p/m)                      | 0.118  | 0.00100 | "    | 0.100  | ND | 118 | 80-120 | 7.02 | 20 |  |
| Xylene (o)                        | 0.0588 | 0.00100 | "    | 0.0500 | ND | 118 | 80-120 | 7.93 | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 42.5   |         | ug/l | 40.0   |    | 106 | 80-120 |      |    |  |
| Surrogate: 4-Bromofluorobenzene   | 47.2   |         | "    | 40.0   |    | 118 | 80-120 |      |    |  |

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

Project: BD Jct. K-27  
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<br>Limit | Units | Spike<br>Level                | Source<br>Result | %REC                          | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|------------------------------------------------------|--------|--------------------|-------|-------------------------------|------------------|-------------------------------|----------------|-------|--------------|-------|
| <b>Batch EH61108 - General Preparation (WetChem)</b> |        |                    |       |                               |                  |                               |                |       |              |       |
| <b>Blank (EH61108-BLK1)</b>                          |        |                    |       | Prepared & Analyzed: 08/11/06 |                  |                               |                |       |              |       |
| Sulfate                                              | ND     | 5.00               | mg/L  |                               |                  |                               |                |       |              |       |
| Chloride                                             | ND     | 2.00               | "     |                               |                  |                               |                |       |              |       |
| <b>LCS (EH61108-BS1)</b>                             |        |                    |       | Prepared & Analyzed: 08/11/06 |                  |                               |                |       |              |       |
| Chloride                                             | 9.36   | 2.00               | mg/L  | 10.0                          |                  | 93.6                          | 80-120         |       |              |       |
| Sulfate                                              | 8.05   | 5.00               | "     | 10.0                          |                  | 80.5                          | 80-120         |       |              |       |
| <b>Calibration Check (EH61108-CCV1)</b>              |        |                    |       | Prepared & Analyzed: 08/11/06 |                  |                               |                |       |              |       |
| Chloride                                             | 10.0   |                    | mg/L  | 10.0                          |                  | 100                           | 80-120         |       |              |       |
| Sulfate                                              | 11.2   |                    | "     | 10.0                          |                  | 112                           | 80-120         |       |              |       |
| <b>Duplicate (EH61108-DUP1)</b>                      |        |                    |       | Source: 6H11008-01            |                  | Prepared & Analyzed: 08/11/06 |                |       |              |       |
| Chloride                                             | 915    | 100                | mg/L  |                               | 912              |                               |                | 0.328 | 20           |       |
| Sulfate                                              | 75.5   | 250                | "     |                               | 75.0             |                               |                | 0.664 | 20           | J     |
| <b>Duplicate (EH61108-DUP2)</b>                      |        |                    |       | Source: 6H11011-02            |                  | Prepared & Analyzed: 08/11/06 |                |       |              |       |
| Chloride                                             | 240    | 50.0               | mg/L  |                               | 240              |                               |                | 0.00  | 20           |       |
| Sulfate                                              | 326    | 125                | "     |                               | 317              |                               |                | 2.80  | 20           |       |
| <b>Matrix Spike (EH61108-MS1)</b>                    |        |                    |       | Source: 6H11008-01            |                  | Prepared & Analyzed: 08/11/06 |                |       |              |       |
| Chloride                                             | 1480   | 100                | mg/L  | 500                           | 912              | 114                           | 80-120         |       |              |       |
| Sulfate                                              | 522    | 250                | "     | 500                           | 75.0             | 89.4                          | 75-125         |       |              |       |
| <b>Matrix Spike (EH61108-MS2)</b>                    |        |                    |       | Source: 6H11011-02            |                  | Prepared & Analyzed: 08/11/06 |                |       |              |       |
| Sulfate                                              | 625    | 125                | mg/L  | 250                           | 317              | 123                           | 80-120         |       |              | S-07  |
| Chloride                                             | 554    | 50.0               | "     | 250                           | 240              | 126                           | 80-120         |       |              | S-07  |

Rice Operating Co.  
122 W. Taylor  
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Project: BD Jct. K-27  
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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EH61505 - General Preparation (WetChem)**

**Blank (EH61505-BLK1)**

Prepared & Analyzed: 08/14/06

Total Alkalinity ND 2.00 mg/L

**LCS (EH61505-BS1)**

Prepared & Analyzed: 08/14/06

Bicarbonate Alkalinity 202 2.00 mg/L 200 101 85-115

**Duplicate (EH61505-DUP1)**

Source: 6H10007-01

Prepared & Analyzed: 08/14/06

Total Alkalinity 136 2.00 mg/L 140 2.90 20

**Reference (EH61505-SRM1)**

Prepared & Analyzed: 08/14/06

Total Alkalinity 78.0 mg/L 82.7 94.3 90-110

**Batch EH61614 - Filtration Preparation**

**Blank (EH61614-BLK1)**

Prepared: 08/15/06 Analyzed: 08/16/06

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (EH61614-DUP1)**

Source: 6H11011-02

Prepared: 08/15/06 Analyzed: 08/16/06

Total Dissolved Solids 1410 10.0 mg/L 1440 2.11 5

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

Project: BD Jct. K-27  
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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EH61420 - 6010B/No Digestion**

**Blank (EH61420-BLK1)**

Prepared & Analyzed: 08/14/06

|           |    |        |      |  |  |  |  |  |  |  |
|-----------|----|--------|------|--|--|--|--|--|--|--|
| Calcium   | ND | 0.0100 | mg/L |  |  |  |  |  |  |  |
| Magnesium | ND | 0.0100 | "    |  |  |  |  |  |  |  |
| Potassium | ND | 0.0500 | "    |  |  |  |  |  |  |  |
| Sodium    | ND | 0.0100 | "    |  |  |  |  |  |  |  |

**Calibration Check (EH61420-CCV1)**

Prepared & Analyzed: 08/14/06

|           |      |  |      |      |  |      |        |  |  |  |
|-----------|------|--|------|------|--|------|--------|--|--|--|
| Calcium   | 2.06 |  | mg/L | 2.00 |  | 103  | 85-115 |  |  |  |
| Magnesium | 2.24 |  | "    | 2.00 |  | 112  | 85-115 |  |  |  |
| Potassium | 1.74 |  | "    | 2.00 |  | 87.0 | 85-115 |  |  |  |
| Sodium    | 1.72 |  | "    | 2.00 |  | 86.0 | 85-115 |  |  |  |

**Duplicate (EH61420-DUP1)**

Source: 6H11008-01

Prepared & Analyzed: 08/14/06

|           |      |       |      |  |      |  |  |      |    |  |
|-----------|------|-------|------|--|------|--|--|------|----|--|
| Calcium   | 243  | 0.500 | mg/L |  | 238  |  |  | 2.08 | 20 |  |
| Magnesium | 30.0 | 0.100 | "    |  | 30.6 |  |  | 1.98 | 20 |  |
| Potassium | 6.84 | 0.500 | "    |  | 7.47 |  |  | 8.81 | 20 |  |
| Sodium    | 463  | 0.500 | "    |  | 447  |  |  | 3.52 | 20 |  |

Rice Operating Co.  
122 W. Taylor  
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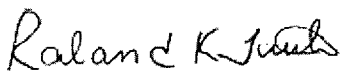
Project: BD Jct. K-27  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.  
J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).  
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:

8/18/2006

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

12600 West I-20 East Phone: 432-563-1800  
Odessa, Texas 79765 Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpope@riceswd.com

Project Name: BD Junction K-27

Company Name RICE Operating Company

Project #:

Company Address: 122 W. Taylor Street

Project Loc: Lea County

City/State/Zip: Hobbs, New Mexico 88240

PO #:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valomet.com

| LAB # (lab. use only) | FIELD CODE      | Date Sampled | Time Sampled | No. of Containers | Preservative     |                           |      |                                |                       | Matrix          |       |        |      |                  | Analyze For                |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|-----------------------|-----------------|--------------|--------------|-------------------|------------------|---------------------------|------|--------------------------------|-----------------------|-----------------|-------|--------|------|------------------|----------------------------|-------------------------|--------------------------------------------------------------------|-----------------|---------------------------------|-----------|---------------|-----------------|-----|----------|------------------------|-------------------------|
|                       |                 |              |              |                   | HNO <sub>3</sub> | HCl (2) 40 ml glass vials | NaOH | H <sub>2</sub> SO <sub>4</sub> | None (1) 1 Liter HDPE | Other (Specify) | Water | Sludge | Soil | Other (specify): | TPH, 418.1 8015M 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> ) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 | RCI | N.O.R.M. | Total Dissolved Solids | RUSH TAT (Pre-Schedule) |
| Campbell              | Monitor Well #2 | 8/10/2006    | 8:15         | 3                 | X                | 2                         |      |                                | 1                     |                 | X     |        |      |                  |                            | X                       | X                                                                  |                 |                                 |           | X             |                 |     | X        |                        | X                       |
|                       | Monitor Well #3 | 8/10/2006    | 9:55         | 3                 | X                | 2                         |      |                                | 1                     |                 | X     |        |      |                  |                            | X                       | X                                                                  |                 |                                 |           | X             |                 |     | X        |                        | X                       |
|                       | Monitor Well #4 | 8/10/2006    | 9:05         | 3                 | X                | 2                         |      |                                | 1                     |                 | X     |        |      |                  |                            | X                       | X                                                                  |                 |                                 |           | X             |                 |     | X        |                        | X                       |
|                       | Monitor Well #5 | 8/10/2006    | 10:45        | 3                 | X                | 2                         |      |                                | 1                     |                 | X     |        |      |                  |                            | X                       | X                                                                  |                 |                                 |           | X             |                 |     | X        |                        | X                       |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |
|                       |                 |              |              |                   |                  |                           |      |                                |                       |                 |       |        |      |                  |                            |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |                         |

Special Instructions: PLEASE Email RESULTS TO: kpope@riceswd.com & mfranks@riceswd.com  
rozanne@valomet.com

Relinquished by: Rozanne Johnson Date: 8/11/06 Time: 5:45

Relinquished by: Rozanne Johnson Date: 8/11/06 Time: 10:15

Received by: Rozanne Johnson Date: 8/11/06 Time: 5:46

Received by: Rozanne Johnson Date: 8/11/06 Time: 10:15

Sample Containers Intact? Y Labels on container? Y Custody Seals: Containers / Cooler Temperature Upon Receipt: 3/4

Laboratory Comments:

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

Client: Rice Op.  
Date/ Time: 8/11/06 10:15  
Lab ID #: 6H110000  
Initials: CK

**Sample Receipt Checklist**

|     |                                                        |            |    | Client Initials          |  |
|-----|--------------------------------------------------------|------------|----|--------------------------|--|
| #1  | Temperature of container/ cooler?                      | Yes        | No | 3.0 °C                   |  |
| #2  | Shipping container in good condition?                  | <u>Yes</u> | No |                          |  |
| #3  | Custody Seals intact on shipping container/ cooler?    | <u>Yes</u> | No | Not Present              |  |
| #4  | Custody Seals intact on sample bottles/ container?     | <u>Yes</u> | No | Not Present              |  |
| #5  | Chain of Custody present?                              | <u>Yes</u> | No |                          |  |
| #6  | Sample instructions complete of Chain of Custody?      | <u>Yes</u> | No |                          |  |
| #7  | Chain of Custody signed when relinquished/ received?   | <u>Yes</u> | No |                          |  |
| #8  | Chain of Custody agrees with sample label(s)?          | <u>Yes</u> | No | ID written on Cont./ Lid |  |
| #9  | Container label(s) legible and intact?                 | <u>Yes</u> | No | Not Applicable           |  |
| #10 | Sample matrix/ properties agree with Chain of Custody? | <u>Yes</u> | No |                          |  |
| #11 | Containers supplied by ELOT?                           | <u>Yes</u> | No |                          |  |
| #12 | Samples in proper container/ bottle?                   | <u>Yes</u> | No | See Below                |  |
| #13 | Samples properly preserved?                            | <u>Yes</u> | No | See Below                |  |
| #14 | Sample bottles intact?                                 | <u>Yes</u> | No |                          |  |
| #15 | Preservations documented on Chain of Custody?          | <u>Yes</u> | No |                          |  |
| #16 | Containers documented on Chain of Custody?             | <u>Yes</u> | No |                          |  |
| #17 | Sufficient sample amount for indicated test(s)?        | <u>Yes</u> | No | See Below                |  |
| #18 | All samples received within sufficient hold time?      | <u>Yes</u> | No | See Below                |  |
| #19 | VOC samples have zero headspace?                       | <u>Yes</u> | No | Not Applicable           |  |

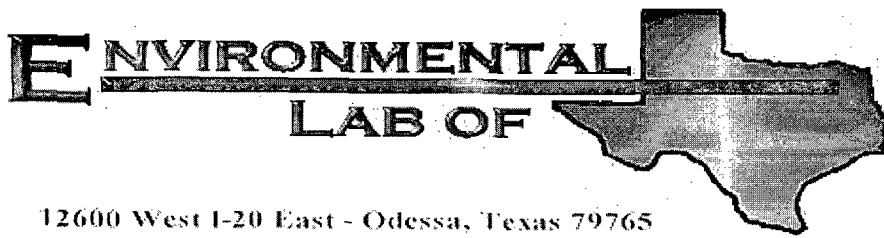
**Variance Documentation**

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



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Kristin Farris-Pope  
Rice Operating Co.  
122 W. Taylor  
Hobbs, NM 88240

Project: BD Jct. K-27 & K-27-1

Project Number: None Given

Location: T21S-R37E-Sec.27K, Lea County, NM

Lab Order Number: 6J10001

Report Date: 10/18/06

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

Project: BD Jct. K-27 & K-27-1  
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    |
|------------------------|---------------|--------|----------------|------------------|
| K-27 Monitor Well #1   | 6J10001-01    | Water  | 10/04/06 13:15 | 10-09-2006 17:20 |
| K-27 Monitor Well #2   | 6J10001-02    | Water  | 10/04/06 09:40 | 10-09-2006 17:20 |
| K-27 Monitor Well #3   | 6J10001-03    | Water  | 10/04/06 12:05 | 10-09-2006 17:20 |
| K-27 Monitor Well #4   | 6J10001-04    | Water  | 10/04/06 10:25 | 10-09-2006 17:20 |
| K-27 Monitor Well #5   | 6J10001-05    | Water  | 10/04/06 14:05 | 10-09-2006 17:20 |
| K-27-1 Monitor Well #1 | 6J10001-06    | Water  | 10/04/06 11:15 | 10-09-2006 17:20 |

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

Project: BD Jct. K-27 & K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                                        | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>K-27 Monitor Well #1 (6J10001-01) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                        | ND     | 0.00100            | mg/L   | 1        | EJ61407 | 10/14/06 | 10/15/06 | EPA 8021B |       |
| Toluene                                        | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (o)                                     | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene              |        | 82.0 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene                |        | 101 %              | 80-120 |          | "       | "        | "        | "         |       |
| <b>K-27 Monitor Well #2 (6J10001-02) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                        | ND     | 0.00100            | mg/L   | 1        | EJ61407 | 10/14/06 | 10/15/06 | EPA 8021B |       |
| Toluene                                        | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (o)                                     | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene              |        | 80.5 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene                |        | 85.2 %             | 80-120 |          | "       | "        | "        | "         |       |
| <b>K-27 Monitor Well #3 (6J10001-03) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                        | ND     | 0.00100            | mg/L   | 1        | EJ61407 | 10/14/06 | 10/15/06 | EPA 8021B |       |
| Toluene                                        | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (o)                                     | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene              |        | 81.2 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene                |        | 86.0 %             | 80-120 |          | "       | "        | "        | "         |       |
| <b>K-27 Monitor Well #4 (6J10001-04) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                        | ND     | 0.00100            | mg/L   | 1        | EJ61407 | 10/14/06 | 10/15/06 | EPA 8021B |       |
| Toluene                                        | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                                   | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Xylene (o)                                     | ND     | 0.00100            | "      | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene              |        | 83.8 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene                |        | 93.5 %             | 80-120 |          | "       | "        | "        | "         |       |

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

Project: BD Jct. K-27 & K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Organics by GC**  
**Environmental Lab of Texas**

| Analyte                                        | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| <b>K-27 Monitor Well #5 (6J10001-05) Water</b> |        |                    |        |          |         |          |          |           |       |
| Benzene                                        | ND     | 0.00100            | mg/L   | 1        | EJ61407 | 10/14/06 | 10/15/06 | EPA 8021B |       |
| 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      |        | 82.5 %             | 80-120 |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene                |        | 93.8 %             | 80-120 |          | "       | "        | "        | "         |       |

**K-27-1 Monitor Well #1 (6J10001-06) Water**

|                                           |    |         |        |   |         |          |          |           |  |
|-------------------------------------------|----|---------|--------|---|---------|----------|----------|-----------|--|
| Benzene                                   | ND | 0.00100 | mg/L   | 1 | EJ61407 | 10/14/06 | 10/15/06 | EPA 8021B |  |
| 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 |    | 84.0 %  | 80-120 |   | "       | "        | "        | "         |  |
| Surrogate: 4-Bromofluorobenzene           |    | 84.8 %  | 80-120 |   | "       | "        | "        | "         |  |

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

Project: BD Jct. K-27 & K-27-1  
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<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method     | Notes |
|--------------------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|------------|-------|
| <b>K-27 Monitor Well #1 (6J10001-01) Water</b>   |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                                 | 284    | 2.00               | mg/L  | 1        | EJ61011 | 10/10/06 | 10/10/06 | EPA 310.1M |       |
| Chloride                                         | 494    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| Total Dissolved Solids                           | 1980   | 10.0               | "     | 1        | EJ61016 | 10/10/06 | 10/11/06 | EPA 160.1  |       |
| Sulfate                                          | 315    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| <b>K-27 Monitor Well #2 (6J10001-02) Water</b>   |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                                 | 294    | 2.00               | mg/L  | 1        | EJ61011 | 10/10/06 | 10/10/06 | EPA 310.1M |       |
| Chloride                                         | 543    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| Total Dissolved Solids                           | 1850   | 10.0               | "     | 1        | EJ61016 | 10/10/06 | 10/11/06 | EPA 160.1  |       |
| Sulfate                                          | 275    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| <b>K-27 Monitor Well #3 (6J10001-03) Water</b>   |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                                 | 392    | 2.00               | mg/L  | 1        | EJ61011 | 10/10/06 | 10/10/06 | EPA 310.1M |       |
| Chloride                                         | 227    | 5.00               | "     | 10       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| Total Dissolved Solids                           | 1480   | 10.0               | "     | 1        | EJ61016 | 10/10/06 | 10/11/06 | EPA 160.1  |       |
| Sulfate                                          | 324    | 5.00               | "     | 10       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| <b>K-27 Monitor Well #4 (6J10001-04) Water</b>   |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                                 | 318    | 2.00               | mg/L  | 1        | EJ61011 | 10/10/06 | 10/10/06 | EPA 310.1M |       |
| Chloride                                         | 516    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| Total Dissolved Solids                           | 2020   | 10.0               | "     | 1        | EJ61016 | 10/10/06 | 10/11/06 | EPA 160.1  |       |
| Sulfate                                          | 540    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| <b>K-27 Monitor Well #5 (6J10001-05) Water</b>   |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                                 | 480    | 2.00               | mg/L  | 1        | EJ61011 | 10/10/06 | 10/10/06 | EPA 310.1M |       |
| Chloride                                         | 282    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| Total Dissolved Solids                           | 1950   | 10.0               | "     | 1        | EJ61016 | 10/10/06 | 10/11/06 | EPA 160.1  |       |
| Sulfate                                          | 551    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| <b>K-27-1 Monitor Well #1 (6J10001-06) Water</b> |        |                    |       |          |         |          |          |            |       |
| Total Alkalinity                                 | 360    | 2.00               | mg/L  | 1        | EJ61011 | 10/10/06 | 10/10/06 | EPA 310.1M |       |
| Chloride                                         | 314    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |
| Total Dissolved Solids                           | 1760   | 10.0               | "     | 1        | EJ61016 | 10/10/06 | 10/11/06 | EPA 160.1  |       |
| Sulfate                                          | 460    | 12.5               | "     | 25       | EJ61103 | 10/10/06 | 10/10/06 | EPA 300.0  |       |

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

Project: BD Jct. K-27 & K-27-1  
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<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>K-27 Monitor Well #1 (6J10001-01) Water</b>   |        |                    |       |          |         |          |          |           |       |
| Calcium                                          | 176    | 4.05               | mg/L  | 50       | EJ61107 | 10/11/06 | 10/11/06 | EPA 6010B |       |
| Magnesium                                        | 87.5   | 1.80               | "     | "        | "       | "        | "        | "         |       |
| Potassium                                        | 10.9   | 0.600              | "     | 10       | "       | "        | "        | "         |       |
| Sodium                                           | 271    | 2.15               | "     | 50       | "       | "        | "        | "         |       |
| <b>K-27 Monitor Well #2 (6J10001-02) Water</b>   |        |                    |       |          |         |          |          |           |       |
| Calcium                                          | 209    | 4.05               | mg/L  | 50       | EJ61107 | 10/11/06 | 10/11/06 | EPA 6010B |       |
| Magnesium                                        | 94.0   | 1.80               | "     | "        | "       | "        | "        | "         |       |
| Potassium                                        | 8.57   | 0.600              | "     | 10       | "       | "        | "        | "         |       |
| Sodium                                           | 265    | 2.15               | "     | 50       | "       | "        | "        | "         |       |
| <b>K-27 Monitor Well #3 (6J10001-03) Water</b>   |        |                    |       |          |         |          |          |           |       |
| Calcium                                          | 101    | 4.05               | mg/L  | 50       | EJ61107 | 10/11/06 | 10/11/06 | EPA 6010B |       |
| Magnesium                                        | 50.8   | 0.360              | "     | 10       | "       | "        | "        | "         |       |
| Potassium                                        | 6.60   | 0.600              | "     | "        | "       | "        | "        | "         |       |
| Sodium                                           | 204    | 2.15               | "     | 50       | "       | "        | "        | "         |       |
| <b>K-27 Monitor Well #4 (6J10001-04) Water</b>   |        |                    |       |          |         |          |          |           |       |
| Calcium                                          | 189    | 4.05               | mg/L  | 50       | EJ61107 | 10/11/06 | 10/11/06 | EPA 6010B |       |
| Magnesium                                        | 81.3   | 1.80               | "     | "        | "       | "        | "        | "         |       |
| Potassium                                        | 10.7   | 0.600              | "     | 10       | "       | "        | "        | "         |       |
| Sodium                                           | 393    | 2.15               | "     | 50       | "       | "        | "        | "         |       |
| <b>K-27 Monitor Well #5 (6J10001-05) Water</b>   |        |                    |       |          |         |          |          |           |       |
| Calcium                                          | 102    | 4.05               | mg/L  | 50       | EJ61107 | 10/11/06 | 10/11/06 | EPA 6010B |       |
| Magnesium                                        | 65.1   | 1.80               | "     | "        | "       | "        | "        | "         |       |
| Potassium                                        | 7.94   | 0.600              | "     | 10       | "       | "        | "        | "         |       |
| Sodium                                           | 470    | 2.15               | "     | 50       | "       | "        | "        | "         |       |
| <b>K-27-1 Monitor Well #1 (6J10001-06) Water</b> |        |                    |       |          |         |          |          |           |       |
| Calcium                                          | 147    | 4.05               | mg/L  | 50       | EJ61107 | 10/11/06 | 10/11/06 | EPA 6010B |       |
| Magnesium                                        | 71.5   | 1.80               | "     | "        | "       | "        | "        | "         |       |
| Potassium                                        | 8.06   | 0.600              | "     | 10       | "       | "        | "        | "         |       |
| Sodium                                           | 345    | 2.15               | "     | 50       | "       | "        | "        | "         |       |

Environmental Lab of Texas

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

Project: BD Jct. K-27 & K-27-1  
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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|--------------|-------|

**Batch EJ61407 - EPA 5030C (GC)**

**Blank (EJ61407-BLK1)**

Prepared: 10/14/06 Analyzed: 10/15/06

|                                   |      |         |      |      |  |      |        |  |
|-----------------------------------|------|---------|------|------|--|------|--------|--|
| 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 | 33.5 |         | ug/l | 40.0 |  | 83.8 | 80-120 |  |
| Surrogate: 4-Bromofluorobenzene   | 35.0 |         | "    | 40.0 |  | 87.5 | 80-120 |  |

**LCS (EJ61407-BS1)**

Prepared: 10/14/06 Analyzed: 10/15/06

|                                   |        |         |      |        |  |      |        |  |
|-----------------------------------|--------|---------|------|--------|--|------|--------|--|
| Benzene                           | 0.0451 | 0.00100 | mg/L | 0.0500 |  | 90.2 | 80-120 |  |
| Toluene                           | 0.0430 | 0.00100 | "    | 0.0500 |  | 86.0 | 80-120 |  |
| Ethylbenzene                      | 0.0513 | 0.00100 | "    | 0.0500 |  | 103  | 80-120 |  |
| Xylene (p/m)                      | 0.0929 | 0.00100 | "    | 0.100  |  | 92.9 | 80-120 |  |
| Xylene (o)                        | 0.0423 | 0.00100 | "    | 0.0500 |  | 84.6 | 80-120 |  |
| Surrogate: a,a,a-Trifluorotoluene | 34.4   |         | ug/l | 40.0   |  | 86.0 | 80-120 |  |
| Surrogate: 4-Bromofluorobenzene   | 43.8   |         | "    | 40.0   |  | 110  | 80-120 |  |

**Calibration Check (EJ61407-CCV1)**

Prepared: 10/14/06 Analyzed: 10/17/06

|                                   |      |  |      |      |  |      |        |  |
|-----------------------------------|------|--|------|------|--|------|--------|--|
| Benzene                           | 49.9 |  | ug/l | 50.0 |  | 99.8 | 80-120 |  |
| Toluene                           | 43.1 |  | "    | 50.0 |  | 86.2 | 80-120 |  |
| Ethylbenzene                      | 42.0 |  | "    | 50.0 |  | 84.0 | 80-120 |  |
| Xylene (p/m)                      | 83.7 |  | "    | 100  |  | 83.7 | 80-120 |  |
| Xylene (o)                        | 41.2 |  | "    | 50.0 |  | 82.4 | 80-120 |  |
| Surrogate: a,a,a-Trifluorotoluene | 36.1 |  | "    | 40.0 |  | 90.2 | 80-120 |  |
| Surrogate: 4-Bromofluorobenzene   | 34.3 |  | "    | 40.0 |  | 85.8 | 80-120 |  |

**Matrix Spike (EJ61407-MS1)**

Source: 6J12015-01

Prepared: 10/14/06 Analyzed: 10/17/06

|                                   |        |         |      |        |    |      |        |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|--|
| Benzene                           | 0.0501 | 0.00100 | mg/L | 0.0500 | ND | 100  | 80-120 |  |
| Toluene                           | 0.0440 | 0.00100 | "    | 0.0500 | ND | 88.0 | 80-120 |  |
| Ethylbenzene                      | 0.0416 | 0.00100 | "    | 0.0500 | ND | 83.2 | 80-120 |  |
| Xylene (p/m)                      | 0.0914 | 0.00100 | "    | 0.100  | ND | 91.4 | 80-120 |  |
| Xylene (o)                        | 0.0427 | 0.00100 | "    | 0.0500 | ND | 85.4 | 80-120 |  |
| Surrogate: a,a,a-Trifluorotoluene | 35.5   |         | ug/l | 40.0   |    | 88.8 | 80-120 |  |
| Surrogate: 4-Bromofluorobenzene   | 40.2   |         | "    | 40.0   |    | 100  | 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 6 of 11

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

Project: BD Jct. K-27 & K-27-1  
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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EJ61407 - EPA 5030C (GC)**

**Matrix Spike Dup (EJ61407-MSD1)**

Source: 6J12015-01

Prepared: 10/14/06 Analyzed: 10/17/06

|                                   |        |         |      |        |    |      |        |       |    |  |
|-----------------------------------|--------|---------|------|--------|----|------|--------|-------|----|--|
| Benzene                           | 0.0502 | 0.00100 | mg/L | 0.0500 | ND | 100  | 80-120 | 0.00  | 20 |  |
| Toluene                           | 0.0442 | 0.00100 | "    | 0.0500 | ND | 88.4 | 80-120 | 0.454 | 20 |  |
| Ethylbenzene                      | 0.0412 | 0.00100 | "    | 0.0500 | ND | 82.4 | 80-120 | 0.966 | 20 |  |
| Xylene (p/m)                      | 0.0913 | 0.00100 | "    | 0.100  | ND | 91.3 | 80-120 | 0.109 | 20 |  |
| Xylene (o)                        | 0.0437 | 0.00100 | "    | 0.0500 | ND | 87.4 | 80-120 | 2.31  | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 35.4   |         | ug/l | 40.0   |    | 88.5 | 80-120 |       |    |  |
| Surrogate: 4-Bromofluorobenzene   | 41.0   |         | "    | 40.0   |    | 102  | 80-120 |       |    |  |

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

Project: BD Jct. K-27 & K-27-1  
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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EJ61011 - General Preparation (WetChem)**

**Blank (EJ61011-BLK1)**

Prepared & Analyzed: 10/10/06

Total Alkalinity ND 2.00 mg/L

**LCS (EJ61011-BS1)**

Prepared & Analyzed: 10/10/06

Total Alkalinity 190 2.00 mg/L 200 95.0 85-115

**Duplicate (EJ61011-DUP1)**

Source: 6J09002-01

Prepared & Analyzed: 10/10/06

Total Alkalinity 248 2.00 mg/L 244 1.63 20

**Reference (EJ61011-SRM1)**

Prepared & Analyzed: 10/10/06

Total Alkalinity 250 mg/L 250 100 90-110

**Batch EJ61016 - Filtration Preparation**

**Blank (EJ61016-BLK1)**

Prepared: 10/10/06 Analyzed: 10/11/06

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (EJ61016-DUP1)**

Source: 6J09002-01

Prepared: 10/10/06 Analyzed: 10/11/06

Total Dissolved Solids 1570 10.0 mg/L 1590 1.27 5

**Duplicate (EJ61016-DUP2)**

Source: 6J10002-03

Prepared: 10/10/06 Analyzed: 10/11/06

Total Dissolved Solids 3910 10.0 mg/L 3900 0.256 5

**Batch EJ61103 - General Preparation (WetChem)**

**Blank (EJ61103-BLK1)**

Prepared & Analyzed: 10/10/06

Sulfate ND 0.500 mg/L

Chloride ND 0.500 "

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

Project: BD Jct. K-27 & K-27-1  
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<br>Limit        | Units | Spike<br>Level                | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------------------------|--------|---------------------------|-------|-------------------------------|------------------|------|----------------|------|--------------|-------|
| <b>Batch EJ61103 - General Preparation (WetChem)</b> |        |                           |       |                               |                  |      |                |      |              |       |
| <b>LCS (EJ61103-BS1)</b>                             |        |                           |       | Prepared & Analyzed: 10/10/06 |                  |      |                |      |              |       |
| Sulfate                                              | 10.3   | 0.500                     | mg/L  | 10.0                          |                  | 103  | 80-120         |      |              |       |
| Chloride                                             | 10.8   | 0.500                     | "     | 10.0                          |                  | 108  | 80-120         |      |              |       |
| <b>Calibration Check (EJ61103-CCV1)</b>              |        |                           |       | Prepared & Analyzed: 10/10/06 |                  |      |                |      |              |       |
| Chloride                                             | 10.5   |                           | mg/L  | 10.0                          |                  | 105  | 80-120         |      |              |       |
| Sulfate                                              | 10.2   |                           | "     | 10.0                          |                  | 102  | 80-120         |      |              |       |
| <b>Duplicate (EJ61103-DUP1)</b>                      |        | <b>Source: 6J10001-01</b> |       | Prepared & Analyzed: 10/10/06 |                  |      |                |      |              |       |
| Chloride                                             | 506    | 12.5                      | mg/L  |                               | 494              |      |                | 2.40 | 20           |       |
| Sulfate                                              | 324    | 12.5                      | "     |                               | 315              |      |                | 2.82 | 20           |       |
| <b>Duplicate (EJ61103-DUP2)</b>                      |        | <b>Source: 6J10003-02</b> |       | Prepared & Analyzed: 10/10/06 |                  |      |                |      |              |       |
| Sulfate                                              | 88.3   | 5.00                      | mg/L  |                               | 87.2             |      |                | 1.25 | 20           |       |
| Chloride                                             | 69.2   | 5.00                      | "     |                               | 70.1             |      |                | 1.29 | 20           |       |
| <b>Matrix Spike (EJ61103-MS1)</b>                    |        | <b>Source: 6J10001-01</b> |       | Prepared & Analyzed: 10/10/06 |                  |      |                |      |              |       |
| Chloride                                             | 773    | 12.5                      | mg/L  | 250                           | 494              | 112  | 80-120         |      |              |       |
| Sulfate                                              | 541    | 12.5                      | "     | 250                           | 315              | 90.4 | 80-120         |      |              |       |
| <b>Matrix Spike (EJ61103-MS2)</b>                    |        | <b>Source: 6J10003-02</b> |       | Prepared & Analyzed: 10/10/06 |                  |      |                |      |              |       |
| Sulfate                                              | 182    | 5.00                      | mg/L  | 100                           | 87.2             | 94.8 | 80-120         |      |              |       |
| Chloride                                             | 185    | 5.00                      | "     | 100                           | 70.1             | 115  | 80-120         |      |              |       |

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

Project: BD Jct. K-27 & K-27-1  
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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EJ61107 - 6010B/No Digestion**

**Blank (EJ61107-BLK1)**

Prepared & Analyzed: 10/11/06

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

**Calibration Check (EJ61107-CCV1)**

Prepared & Analyzed: 10/11/06

|           |      |  |      |      |  |      |        |  |  |
|-----------|------|--|------|------|--|------|--------|--|--|
| Calcium   | 2.01 |  | mg/L | 2.00 |  | 100  | 85-115 |  |  |
| Magnesium | 2.17 |  | "    | 2.00 |  | 108  | 85-115 |  |  |
| Potassium | 1.78 |  | "    | 2.00 |  | 89.0 | 85-115 |  |  |
| Sodium    | 1.77 |  | "    | 2.00 |  | 88.5 | 85-115 |  |  |

**Duplicate (EJ61107-DUP1)**

Source: 6J09002-01

Prepared & Analyzed: 10/11/06

|           |      |       |      |      |  |  |  |       |    |
|-----------|------|-------|------|------|--|--|--|-------|----|
| Calcium   | 214  | 4.05  | mg/L | 213  |  |  |  | 0.468 | 20 |
| Magnesium | 82.1 | 1.80  | "    | 84.4 |  |  |  | 2.76  | 20 |
| Potassium | 10.8 | 0.600 | "    | 10.4 |  |  |  | 3.77  | 20 |
| Sodium    | 90.4 | 2.15  | "    | 90.0 |  |  |  | 0.443 | 20 |

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

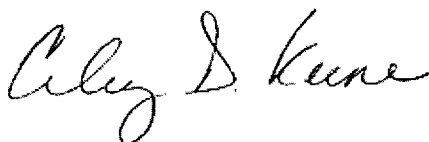
Project: BD Jct. K-27 & K-27-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

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:

10/18/2006

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

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

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# Environmental Lab of Texas

12600 West I-20 East  
Odessa, Texas 79766

Phone: 432-583-1800  
Fax: 432-583-1713

Project Manager: Kristin Farrie Pope kpope@riceswd.com

Company Name RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valornet.com

Project Name:

Project Number:

Project Loc:

PO Number:

BD Junction K-27 & K-27-1

T21S-R37E-Sec27K Lea County NM

| LAB #<br>(lab use only) | FIELD CODE               | Date Sampled | Time Sampled | No. of Containers | Preservative |                  |                           |      |                                | Matrix                |                 |       |        |      | Analyze For:    |                           |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |              |                         |
|-------------------------|--------------------------|--------------|--------------|-------------------|--------------|------------------|---------------------------|------|--------------------------------|-----------------------|-----------------|-------|--------|------|-----------------|---------------------------|-------------------------|--------------------------------------------------------------------|-----------------|---------------------------------|-----------|---------------|-----------------|-----|----------|------------------------|--------------|-------------------------|
|                         |                          |              |              |                   | Ice          | HNO <sub>3</sub> | HCl (2) 40 ml glass vials | NaOH | H <sub>2</sub> SO <sub>4</sub> | Meme (3) 1 Liter HDPE | Other (Specify) | Water | Seduge | Soil | Other (Specify) | TPH 418.1 301SM 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> ) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | SemiVolatiles | BTEX 8021B/5030 | RCI | N.O.R.M. | Total Dissolved Solids | Standard TAT | RUSH TAT (Pre-Schedule) |
|                         |                          |              |              |                   |              |                  |                           |      |                                |                       |                 |       |        |      |                 |                           |                         |                                                                    |                 |                                 |           |               |                 |     |          |                        |              |                         |
| 100001                  | K-27 ~ Monitor Well #1   | 10/4/2006    | 13:15        | 3                 | X            | 2                | 1                         | 1    | X                              | X                     |                 |       |        |      | X               | X                         | X                       | X                                                                  | X               | X                               | X         | X             | X               | X   | X        | X                      | X            |                         |
| 100002                  | K-27 ~ Monitor Well #2   | 10/4/2006    | 9:40         | 3                 | X            | 2                | 1                         | 1    | X                              | X                     |                 |       |        |      | X               | X                         | X                       | X                                                                  | X               | X                               | X         | X             | X               | X   | X        | X                      | X            |                         |
| 100003                  | K-27 ~ Monitor Well #3   | 10/4/2006    | 12:05        | 3                 | X            | 2                | 1                         | 1    | X                              | X                     |                 |       |        |      | X               | X                         | X                       | X                                                                  | X               | X                               | X         | X             | X               | X   | X        | X                      | X            |                         |
| 100004                  | K-27 ~ Monitor Well #4   | 10/4/2006    | 10:25        | 3                 | X            | 2                | 1                         | 1    | X                              | X                     |                 |       |        |      | X               | X                         | X                       | X                                                                  | X               | X                               | X         | X             | X               | X   | X        | X                      | X            |                         |
| 100005                  | K-27 ~ Monitor Well #5   | 10/4/2006    | 14:05        | 3                 | X            | 2                | 1                         | 1    | X                              | X                     |                 |       |        |      | X               | X                         | X                       | X                                                                  | X               | X                               | X         | X             | X               | X   | X        | X                      | X            |                         |
| 100006                  | K-27.1 ~ Monitor Well #1 | 10/4/2006    | 11:15        | 3                 | X            | 2                | 1                         | 1    | X                              | X                     |                 |       |        |      | X               | X                         | X                       | X                                                                  | X               | X                               | X         | X             | X               | X   | X        | X                      | X            |                         |

Email: roxanna@valornet.com

100001

Special Instructions: PLEASE Email RESULTS TO: kpope@riceswd.com; mfranks@riceswd.com  
rozanne@valornet.com

Refrigerated by: Rozanne Johnson  
Relinquished by: Rozanne Johnson

Received by: Rozanne Johnson

Date: 10/9/06 Time: 12:45

Date: 10/9/06 Time: 12:46

Date: 10/9/06 Time: 17:20

Date: 10/9/06 Time: 17:20

Sample Containers Intact? Y N  
Labels on container? Y N  
Custody Seals: Containers (Cooler) Y N  
Temperature Upon Receipt: 35 C

Laboratory Comments:

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

Client: Drive Op.  
Date/ Time: 10/9/06 17:20  
Lab ID #: 6J1000  
Initials: UK

**Sample Receipt Checklist**

|     |                                                        |     |    | Client Initials          |
|-----|--------------------------------------------------------|-----|----|--------------------------|
| #1  | Temperature of container/ cooler?                      | Yes | No | 3.5 ° 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 ELOT?                           | 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 | 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