

1R - 415

# Annual GW Mon. REPORTS

DATE:

2008

# R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

March 9, 2009

2009 MAR 13 PM 2 08

Brad Jones  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

RE: 2008 Annual Ground Water Monitoring Report  
Abo G-1 Site (Abo Apache LA), Sec 01, T17S, R36E, Unit "G"  
NMOCD Case #: 1R0415

Dear Mr. Jones,

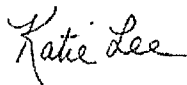
R.T. Hicks Consultants, Ltd. is pleased to submit this 2008 Annual Ground Water Monitoring Report for the G-1 Site (Abo Apache LA) site located in the Abo Salt Water Disposal System (SWD). This report consists of the following sections:

1. A table summarizing all laboratory results and depth to ground water at the site, including this past year.
2. Graphs showing chemical concentration over time for chloride and TDS.

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

Thank you for your consideration of this annual summary information. If you have any questions, please contact us at 505-266-5004, or Hack Conder at ROC, 575-393-9174.

Sincerely,  
R.T. Hicks Consultants



Katie Lee  
Project Scientist

Copy: Rice Operating Company  
Edward Hansen, NMOCD Santa Fe

Abo G-1 Site (Abo Apache LA)

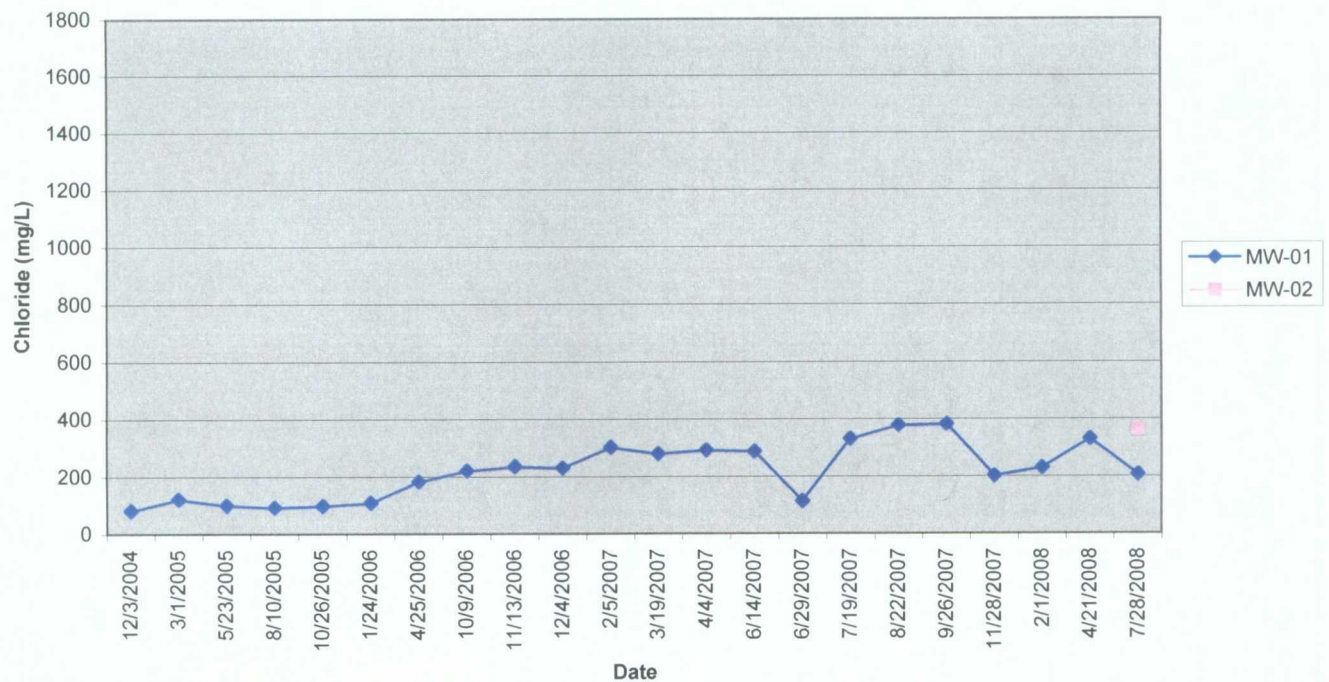
**Table 1: chemistry over time**

| Well Name | Date       | DTW<br>(ft) | Chloride<br>(mg/L) | Sulfate<br>(mg/L) | TDS<br>(mg/L) | Benzene<br>(mg/L) | Toluene<br>(mg/L) | EthylBenzene<br>(mg/L) | Total Xylenes<br>(mg/L) |
|-----------|------------|-------------|--------------------|-------------------|---------------|-------------------|-------------------|------------------------|-------------------------|
| MMW-01    | 12/3/2004  | 92.10       | 80.5               | XXX               | 329           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 3/1/2005   | 92.10       | 120                | XXX               | 532           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 5/23/2005  | 92.30       | 98.4               | XXX               | 573           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 8/10/2005  | 92.60       | 91.5               | XXX               | 603           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 10/26/2005 | 92.88       | 96.9               | 69.7              | 584           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 1/24/2006  | 93.38       | 107                | 65                | 560           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 4/25/2006  | 93.55       | 181                | 66.8              | 780           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 10/9/2006  | 94.61       | 219                | 80.9              | 836           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 11/13/2006 | 94.83       | 234                | XXX               | 752           | XXX               | XXX               | XXX                    | XXX                     |
| MMW-01    | 12/4/2006  | 95.08       | 229                | XXX               | 698           | XXX               | XXX               | XXX                    | XXX                     |
| MMW-01    | 2/5/2007   | 95.12       | 301                | 83.1              | 772           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 3/19/2007  | 95.13       | 278                | XXX               | 976           | XXX               | XXX               | XXX                    | XXX                     |
| MMW-01    | 4/4/2007   | 95.10       | 290                | XXX               | 1210          | XXX               | XXX               | XXX                    | XXX                     |
| MMW-01    | 6/14/2007  | 95.12       | 285                | XXX               | 1350          | XXX               | XXX               | XXX                    | XXX                     |
| MMW-01    | 6/29/2007  | 95.12       | 112                | 74.4              | 588           | <0.001            | <0.001            | <0.001                 | <0.001                  |
| MMW-01    | 7/19/2007  | 95.40       | 328                | XXX               | 912           | XXX               | XXX               | XXX                    | XXX                     |
| MMW-01    | 8/22/2007  | 95.46       | 376                | 91.1              | 1556          | 0.006             | <0.002            | <0.002                 | <0.006                  |
| MMW-01    | 9/26/2007  | 95.61       | 380                | XXX               | 1232          | XXX               | XXX               | XXX                    | XXX                     |
| MMW-01    | 11/28/2007 | 95.88       | 200                | 76.6              | 791           | <0.001            | <0.001            | <0.001                 | <0.003                  |
| MMW-01    | 2/1/2008   | 95.98       | 228                | 75.7              | 868           | 0.003             | <0.001            | <0.001                 | <0.003                  |
| MMW-01    | 4/21/2008  | 96.04       | 328                | 112               | 1050          | 0.009             | <0.001            | <0.001                 | <0.003                  |
| MMW-01    | 7/28/2008  | 96.11       | 204                | 106               | 810           | <0.002            | <0.002            | <0.002                 | <0.006                  |
| MMW-02    | 7/28/2008  | 99.74       | 364                | 99                | 1100          | <0.002            | <0.002            | <0.002                 | <0.006                  |

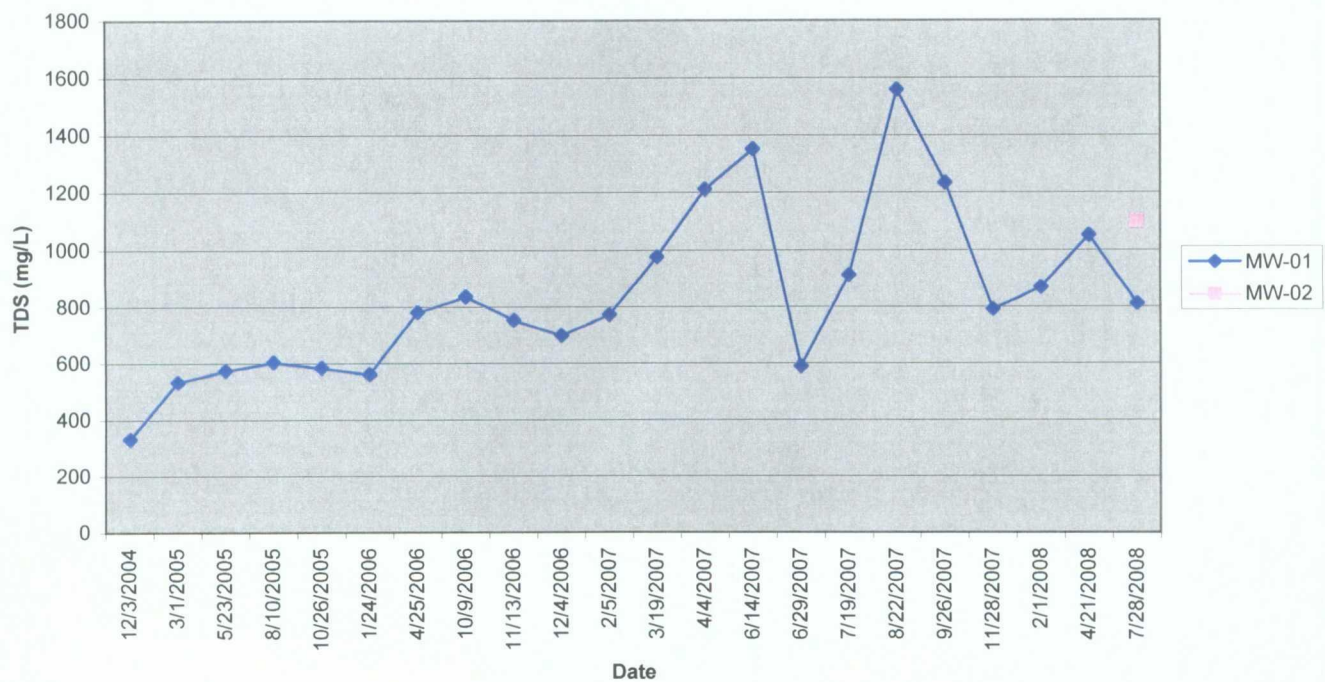
Monday, March 09, 2009

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G-1 Site (Abo Apache LA)  
Chloride Over Time



G-1 Site (Abo Apache LA)  
TDS Over Time



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505-266-5004

Ground Water Chemistry  
Rice Operating Company  
2008 Annual Reports

Abo G-1 Site  
(Abo Apache LA)  
3/9/2009