

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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October 19, 2004

OK

TO: Internal File

THRU: Wayne Hedberg, Permit Supervisor *WH*

FROM: James D. Smith, Senior Reclamation Specialist *JS*

RE: 2004 Second Quarter Water Monitoring, Energy West Mining Company, Deer Creek Mine, C/015/0018-WQ04-2, Task ID # 1969

1. **Were data submitted for all of the MRP required sites?** YES [X] NO [ ]  
*Identify sites not monitored and reason why, if known:*

2. **On what date does the MRP require a five-year resampling of baseline water data.**  
*See Technical Directive 004 for baseline resampling requirements. Consider the five-year baseline resubmittal when responding to question one above. Indicate if the MRP does not have such a requirement.*

### Resampling Due Date

Renewal submittal due 10/07/00, renewal due 2/07/01. Baseline analyses were performed in 1996 and 2001 and will be repeated every 5 years, i.e., next baseline analyses will be in 2006.

3. **Were all required parameters reported for each site?** YES [X] NO [ ]  
*Comments, including identity of monitoring site:*

4. **Were irregularities found in the data?** YES [X] NO [ ]  
*Comments, including identity of monitoring site:*

RCF1 May: flow (n = 101) was outside the two standard deviation range.

RCF1 June: bicarbonate (n = 23) and TDS (n = 23) were outside the two standard deviation range.

RCF2 May: flow (n = 129) was outside the two standard deviation range.  
RCF2 June: lab specific conductivity\* (n = 6) was outside the two standard deviation range.

RCF3 May: flow (n = 133) was outside the two standard deviation range.

RCF3 June: bicarbonate (n = 46) was outside the two standard deviation range.

RCW4 May: flow (n = 133) was outside the two standard deviation range.

RCW4 June: bicarbonate (n = 48) was outside the two standard deviation range.

P-5 April: depth (n = 102) was outside the two standard deviation range.

MFA-1 May: flow (n = 65) was outside the two standard deviation range.

MFU-03 May and June: flow (n = 23) was outside the two standard deviation range

Deer Creek 23604-001 June: Mg (n = 81) was outside the two standard deviation range.

Main N. Main E.: bicarbonate (n = 44) was outside the two standard deviation range (sampled 07/02/1004).

Rilda Canyon Meter 3 June: lab pH\* (n = 34), lab specific conductivity\* (n = 34), and bicarbonate (n = 34) were outside the two standard deviation range.

DCWR-1 depth reported for this piezometer was outside the two standard deviation range because the depth was measured in feet but entered into database in meters; this has been corrected.

CCCW-1A and CCCW-1S May and June: depths were switched in these two piezometers for these two months. This was confirmed with Dennis Oakley and corrected in the database.

\* not a required parameter

**5. Were DMR forms submitted for all required sites?**

1<sup>st</sup> month, YES [X] NO [ ]  
2<sup>nd</sup> month, YES [X] NO [ ]  
3<sup>rd</sup> month, YES [X] NO [ ]

*Identify sites and months not monitored:*

DMRs were submitted in electronic format (Adobe). DMR data were submitted to the DOGM database as operational parameters, not as DMR parameters.

**6. Were all required DMR parameters reported?** YES [ ] NO [X]  
*Comments, including identity of monitoring site:*

UPDES parameters that are not included in the parameter lists in the MRP (floating solids, sanitary waste, and visible foam) are not reported to either DOGM or Water Quality.

**7. Were irregularities found in the DMR data?** YES [X] NO [ ]  
*Comments, including identity of monitoring site:*

UPDES UT0023604-002 April, May, and June: DMR TDS-Daily Max in mg/L (n = 15), DMR TDS-Daily Avg. in mg/L (n = 4), DMR 30-day Average Flow (n = 15), and DMR Daily Max Flow (n = 15) were outside the two standard deviation range.

**8. Based on your review, what further actions, if any, do you recommend?**

Most of the measurements outside two standard deviations were flows. Exceedences of other parameters do not seem to indicate trends. No further action to recommend at this time.