

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

April 26, 2004

TO: Internal File

THRU: Daron Haddock, Permit Supervisor *DH*

FROM: Steve Fluke, Reclamation Hydrogeologist *SF*

RE: 2001, Fourth Quarter Water Monitoring, Genwal Resources, Inc.,
Crandall Canyon Mine, C/015/0032-WQ01-4, Task ID #206

1. Was data submitted for all of the MRP required sites? YES [X] NO []

2. On what date does the MRP require a five-year resampling of baseline water data.

Resampling due date.

Sampling and analyses for baseline parameters (Tables 7-5 and 7-9 in the MRP) are to be performed during low-flow (fourth quarter) in 1990, 1995, 2000, and at five-year intervals thereafter until the surety bond is released. No baseline resampling data for 2000 has been submitted to the database. Gary Gray stated that the baseline resampling was conducted in 2000 but has not been input to the database. He plans to find and input the data. The next baseline resampling is scheduled for 2005.

3. Were all required parameters reported for each site? YES [] NO [X]

No dissolved oxygen (D.O.) was reported for stream sites Horse Canyon, Indian Creek, Upper Crandall Flume, and Lower Crandall Flume.

4. Were irregularities found in the data? YES [X] NO []

Spring SP-30: reported specific conductivity concentration of 601 umhos/cm is below the two standard deviation range. This concentration appears to be an anomaly and consistent with expected decrease in specific conductivity associated with the increased flow reported this quarter.

Spring SP-58: reported bicarbonate concentration of 389 mg/L is above the two standard deviation range. This concentration appears to be an anomaly based on the reported analyses through 2003.

5. Were DMR forms submitted for all required sites?

1st month, YES [X] NO []
2nd month, YES [X] NO []
3rd month, YES [X] NO []

DMR data is submitted to the DOGM database. No flow was reported for UPDES site 001.

6. Were all required DMR parameters reported? YES [] NO [X]

No oil and grease was reported for UPDES site 002 for October and November.

7. Were irregularities found in the DMR data? YES [] NO [X]

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

Have dissolved oxygen data for stream sites Horse Canyon, Indian Creek, Upper Crandall Flume, and Lower Crandall Flume input to the database if available. Missing D.O. data should not be a problem since D.O. data for these sites is generally complete and within expected concentrations.

Gary Gray was not aware that the UPDES sites are to be analyzed for oil and grease on a monthly basis as stated in their permit. He has been analyzing for oil and grease on a quarterly basis or if a sheen is observed as specified in their original permit. Gary will begin analyzing for oil and grease on a monthly basis now that he is aware of the omission. Oil and grease

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concentrations have not exceeded the discharge limitation of 10 mg/L at this outfall through 2003.

Make sure that the baseline resampling data for 2000 is input to the database.

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