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State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CC: Pete Hess for follow-up. OK

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April 18, 2002

TO: Internal File
THRU: Daron R. Haddock, Permit Supervisor DRH
FROM: James D. Smith, Senior Reclamation Specialist JPS
RE: 2001 Second Quarter Water Monitoring, Energy West Mining Company, Trail Mountain Mine, C/015/009-WQ01-2

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

No springs are scheduled to be monitored during the 2nd quarter;

UPDES UT23728-001 and -002 are still being reported under the old permit numbers: UT40003-001 and -002 for operational monitoring. The change to the new permit was effective December 1, 1998;

The mine was sealed in June 2001 and the reports state there has been no discharge at UPDES UT23728-002 since May 2001.

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 10/21/04, renewal due 02/21/05. Baseline analyses were performed in 1996 and will be repeated every 5 years, i.e., next baseline analyses will be in 2001.

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

Analysis for Se was not done for most samples.

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

TM-1B: NO₃ was detected above the MRL, but according to the database there has been no previous analysis for NO₃ (n = 0);

UPDES 040003-002 (UT23728-002), April 17 (monthly supplemental): flow (n = 133) value was outside the two standard deviation range;

UPDES 040003-002 (UT23728-002), May (monthly operational): Ca (n = 38), Mg (n = 37), and SO₄ (n = 44) values were outside the two standard deviation range and above previous maximum value recorded in the APPX database; Na (n = 137) was outside the two standard deviation range and below the previous minimum value recorded in the APPX database; total hardness (n = 42) was outside the two standard deviation range.

5. Were DMR forms submitted for all required sites?

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

Identify sites and months not monitored:

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

UTG0023728-002: 7-day Max TSS not reported for April and May;

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

UTG0023728-002: April flow was reported as zero even though other parameters were measured. (Flows reported on the monthly operational monitoring reports were 360 gpm (April 4) and 500 gpm (April 17). Reported flow of zero falls below the minimum value recorded in the APPX database and is outside two standard deviation range (n = 6);

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The mine was sealed in June 2001 and the reports indicate no discharge at UPDES UT23728-002 after May 2001.

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

High values for total hardness, SO₄, Ca, and Mg and low value for Na for May at UT23728 002 indicate possible contamination of the mine discharge by gypsum or similar material.

Analysis for Se was not done for most surface- and ground-water samples: the operator needs to check the lab reports for missing parameters.

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