



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

Michael O. Leavitt
 Governor
 Kathleen Clarke
 Executive Director
 Lowell P. Braxton
 Division Director

1594 West North Temple, Suite 1210
 PO Box 145801
 Salt Lake City, Utah 84114-5801
 801-538-5340
 801-359-3940 (Fax)
 801-538-7223 (TDD)

July 1, 2002

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor *RZH*

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

RE: 2001 Fourth Quarter Water Monitoring, PacifiCorp, Cottonwood / Wilberg Mine, C/015/019-WQ01-4

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

The mine was sealed May 10, 2001, so in-mine monitoring sites TMA @ 32 and 2ndS XC-11 are no longer accessible;

There was no discharge at UPDES UT23728-002, -003, -004, or -005, during the fourth quarter;

CCC01: no flow in December when field parameters are measured.

GRW01: no flow reported during quarter;

GRW02: no flow in December when field parameters are measured and the sample is collected for water-quality analysis.

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 3/06/04, renewal due 7/06/04. 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:

GWR03: Ca (n = 24) and Mg (n = 24) were outside the two standard deviation range;

WCWR1: depth (n = 41) was outside the two standard deviation range; Mo (n = 3, 6 non-detects) was detected above the MDL – all three detectable Mo concentrations were measured in 2001.

5. Were DMR forms submitted for all required sites?

1st month, YES [X] NO []

2nd month, YES [X] NO []

Identify sites and months not monitored:

3rd month, YES [X] NO []

The portals where UTG0022896-001 was previously located were sealed on 5/10/2001 and the UPDES monitoring point was moved from Grimes Wash to Cottonwood Canyon in July. Reports for 4th quarter are for the new location. Chronic toxicity, using Ceriodaphnia and Flathead Minnow as indicators, was added to the parameters with the permit revision.

There was no discharge at UPDES UT23728-002 (the mine discharge), -003, -004, or -005 during the fourth quarter;

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

UPDES UT23728-002 October: chronic toxicity to Ceriodaphnia and Flathead Minnow (*Pimephales Promelas*) not reported;

UPDES UT23728-002 November: chronic toxicity to Ceriodaphnia and Flathead Minnow (*Pimephales Promelas*) not reported.

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

UTG0022896-001: DMR values are not in the database.

Page 3
C/015/019-WQ01-4
July 1, 2002

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

No action necessary: several values were outside the two standard deviation range but this does not appear to be cause for concern.

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