

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

JK

July 10, 2007

TO: Internal File

THRU: Pamela Grubaugh-Littig, Permit Supervisor *pgl*

FROM: James D. Smith, Environmental Scientist *JS 07/01/07*

RE: 2007 First Quarter Water Monitoring, PacifiCorp, Cottonwood/Wilberg Mine, C/015/0019

The Cottonwood/Wilberg Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

There are no springs monitored at this site. WCWR1 at the Waste Rock Site is the only well monitored. The mine was sealed May 10, 2001, so in-mine monitoring sites TMA @ 32 and 2nd S XC-11 are no longer accessible. The pond at the Cottonwood Fan Portal was reclaimed in 2002 so UPDES 22896-002 is no longer reported to DOGM or the Division of Water Quality.

1. Were data submitted for all of the MRP required sites?

Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

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

2. Were all required parameters reported for each site?

Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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Wells YES NO
UPDES YES NO

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations.

Streams YES NO

Wells YES NO

UPDES YES NO

22896-001 (WMD01) January, February, and March: bicarbonate as CaCO₃.

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

The next renewal submittal is due 03/06/09 for renewal on 07/06/09. Baseline analyses were performed in 2001 and 2006 and will be repeated every 5 years, i.e., the next baseline analyses will be in 2011.

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

At 22896-001 (WMD01) bicarbonate as CaCO₃ was outside two standard deviations from the mean for 7 out of 12 months in 2006, including all 6 months of the 3rd and 4th Quarters, and for the first three months of 2007. However, values are not extreme and the cation -anion balance is within acceptable limits, so no further action is recommended at this time.

6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements? YES NO

7. Follow-up from last quarter, if necessary.

None.

8. Did the Mine Operator submit all the missing and/or irregular data (datum)?

NA

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