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WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

DR December 8, 2011

TO: Internal File

THRU: Steve Christensen, Permit Supervisor *SC*

FROM: Ken Hoffman, Environmental Scientist *KH*

RE: 2011 Second Quarter Water Monitoring, PacifiCorp, Cottonwood/Wilberg Mine, C/015/0019, Task ID #3833

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. The mine was sealed May 10, 2001, so in-mine monitoring sites TMA @ 32 and 2nd S XC-11 are no longer accessible. WCWR1 at the Waste Rock Site is the only well monitored. 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. UT0022896-001 was the only UPDES site to discharge during the Second Quarter 2011.

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

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

UT0022896-001 was the only UPDES site to discharge during the Second Quarter 2011.

2. Were all required parameters reported for each site?

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

UT0022896-001 was the only UPDES site to discharge during the Second Quarter 2011.

3. Were any irregularities found in the data?

Streams YES NO
CCC1 USGS: flow
GWR02: Dissolved Magnesium, Bicarbonate, hardness, lab specific conductivity, total dissolved solids, total cations.
GWR03: Dissolve Potassium

Well YES NO
WCWR1: pH (reported as bad proble)

UPDES YES NO

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

The Division received the permit renewal submittal on 03/09/09, for renewal on 07/06/09. Baseline analyses were performed in 2001 and 2006 and baseline analyses continue through the Second Quarter of 2011.

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

No further action is required 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 missing and/or irregular data?

NA