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**WATER QUALITY  
MEMORANDUM**  
Utah Coal Regulatory Program

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June 27, 2012

TO: Internal File

THRU: Steve Christensen, Permit Supervisor *SC*

FROM: Ken Hoffman, Environmental Scientist *KH*

RE: Fourth Quarter of 2011 Water Monitoring, PacifiCorp, Cottonwood/Wilberg Mine, C/015/0019, Task ID #3960

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 2<sup>nd</sup> 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 Fourth Quarter of 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 Fourth Quarter of 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 Fourth Quarter of 2011.

**3. Were any irregularities found in the data?**

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

UPDES-001 October: bicarbonate

**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 Fourth 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