

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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June 14, 2018

TO: Internal File

THRU: Steve Christensen, Permit Supervisor 

FROM: Keenan Storrar, Hydrologist 

RE: Fourth Quarter 2017 Water Monitoring, PacifiCorp, Cottonwood/Wilberg Mine, C/015/0019, Task ID #5633

The Cottonwood/Wilberg Mine monitoring plan is described in Appendix A-2 of Volume 9 of the MRP. The site is currently in the Reclamation Sampling monitoring phase. There are no springs monitored at this site. In-mine monitoring discontinued when the mine was sealed May 10, 2001. Deer Creek and Cottonwood monitoring programs are found in Volume 9 appendices A-1 and A-2. They are in the same MRP volume because they fall within PacifiCorp's East Mountain PHC.

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

Streams YES  NO

UPDES YES  NO

**2. Were all required parameters reported for each site?**

Streams YES  NO

UPDES YES  NO

The UPDES outfall UT0022896-001 steadily discharged during Q4 2017. This site is perpetually fed by a fracture extending to the surface ~100-200 yards inby the sealed portal.

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

Streams YES  NO

UPDES YES  NO

D-Ca, T-Cats, Cond, and D-K were occasionally elevated during the quarter. Other than that everything else looks fine.

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

The Division renewed the permit on July 6, 2009. Baseline analyses were performed in 2006, 2011, and 2016. Baseline analyses will be due in 2021.

**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