

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

August 17, 2011

TO: Internal File

THRU: Daron Haddock, Coal Program Manager *DQH*

FROM: April A. Abate, Environmental Scientist III *AAA 8/17/2011*

RE: 2011 First Quarter Water Monitoring, Castle Gate Holding Company, Castle Gate Mine, C/007/0004-WQ11-01, Task ID #3744

The Castle Gate Mine is inactive, mostly reclaimed, and is awaiting appropriate conditions to apply for Phase II Bond Release.

Pertinent water monitoring requirement information is in the MRP in Sections 7.5-1 and 7.5-3, and table 7-16.

1. Was data submitted for all of the MRP required sites? YES NO

Springs –

The Permittee is not required to monitor any springs at the Castle Gate Mine.

Streams –

The Permittee is required to sample four intermittent/ephemeral streams (B-11, B-12, B-28, B-45) for flow, and the laboratory parameters outlined in Table 7-16 each quarter.

The Permittee monitored the intermittent/ephemeral streams on March 10, 2011. None of the locations were accessible due to snow.

Wells–

The Permittee is not required to monitor any wells at the Castle Gate Mine.

UPDES–

There are no active UPDES sites at the Castle Gate Mine.

2. Were all required parameters reported for each site? YES NO

Not applicable

3. Were any irregularities found in the data?

YES

NO

Not applicable

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

The MRP does not require a five-year re-sampling of baseline water data.

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

Similar to the access issues encountered at the Willow Creek Mine in the winter months, the Permittee may wish to consider amending the Castlegate water monitoring plan to reduce the surface water sampling frequency such that winter monitoring of Crandall Creek may be omitted from the MRP. The Technical Directive (UDOGM - *Tech-004, Table 1*) published by the Division effective June 2006, recommends for postmining sampling a frequency of two water quality and flow measurements be collected per annum for intermittent streams.