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WATER QUALITY MEMORANDUM Utah Coal Regulatory Program

November 16, 2010

TO: Internal File

THRU: James D. Smith, Permit Supervisor *DS 16 Nov 2010*

FROM: April A. Abate, Environmental Scientist II *AAA 11-16-2010*

RE: 2009 4th Quarter Water Monitoring, Hiawatha Coal Company (HCC), Hiawatha Mine, C/007/0011, WQ09-04, Task #3434

HCC has supplied schedules for water monitoring and parameter reporting in Tables 7-12 through 7-17, in the Mining and Reclamation Plan (MRP), updated on June 6, 2003. Water monitoring locations can be found on Plates 7-1 and 7-2 in the Hiawatha MRP.

The Hiawatha Mine is currently in temporary cessation. There is currently no underground mining taking place. Coal fines are no longer mined from Slurry Pond blended with fines from the Bear Canyon mine since the Bear Canyon mine has ceased operations.

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

Identify sites not monitored and reason why, if known:

Springs HCC monitors six springs at the minesite, SP-2, SP-4, SP-5, SP-11, SP-12 and SP-13. Operational sampling is established in the MRP as two times per year, for spring sites, in June and October. Operational parameters are required for 4th quarter sampling. Springs that reported no flow for the 4th quarter included: SP-5, SP-11, and SP-13.

Streams HCC monitors 10 stream locations at/near the mine site, ST-1, ST-2, ST-2B, ST-3, ST-3A, ST-3B, ST-4, ST-4A, ST-4B, and ST-5. HCC currently monitors field parameters of streams on a monthly basis from April through October, (Table 7-16). Field parameters were collected in October for all stream sample sites. Stream sample locations: ST3, ST3A, ST3B, ST-4, ST-4A, ST-4B were reported as no flow for the field parameter monitoring event in October.

UPDES There are a total of 13 UPDES sample locations listed in Permit #UT0023094 for the Hiawatha Mine used to establish discharge quality. UPDES locations are monitored quarterly according to permit. The UPDES locations D003 through D013 listed in the current UPDES permit typically do not discharge. The current permit is due to expire in December 2014. All UPDES sample locations are

outlined below:

Pond No.	Location
D001	Mohrland Portal
D002	Overflow at Hiawatha
D003	Upper Coal Storage Yard
D004	North of Slurry Pond No. 1
D005	East of Slurry Pond No. 4
D006	North East of Slurry Pond No. 5
D007	South East of Slurry Pond No. 5
D008	Middle Fork Mine Yard
D009	South Fork Mine Yard
D010	King Mine 4 Discharge
D011	South Fork Truck Loading Facility
D012	Mohrland Pipeline Drain
D013	King 6 Water Tank Overflow

During the fourth quarter of 2009, locations D003 ^{flow} and D013 did not report any flow data. Data from UPDES locations D001 and D002 were reported this quarter, except for a November 2009 which D001 was reported as inaccessible.

2. Were all required parameters reported for each site?

Springs YES NO

Streams YES NO

UPDES YES NO

3. Were irregularities found in the data?

Springs YES NO

Spring sample SP-4 was outside of two standard deviations for total suspended solids (TSS) concentrations.

Streams YES NO

Water quality in all flowing stream samples appears to be satisfactory and meeting applicable state water-quality standards. One sample ST-2 exhibited a lower than average temperature. This was attributable to freezing water temperatures.

UPDES YES NO

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Conductivity values were elevated in samples D001 and D002 during at least one of the sampling events during the 4th quarter.

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

No baseline sampling obligations are stipulated in the Hiawatha MRP.

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

None

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