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*Outgoing*  
*3/10/09/0011*

**From:** April Abate  
**To:** shawn.baker@hiawathacoal.com  
**CC:** Melissa; OGMCOAL@utah.gov; Steve Demczak  
**Date:** 3/10/2009 1:33 PM  
**Subject:** Fourth Quarter Water Quality Report - Hiawatha Mine  
**Place:** OGMCOAL@utah.gov  
**Attachments:** Hiawatha 007\_0011 Q4 2008 Water Quality Report.pdf; April Abate.vcf

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Shawn,

Here is your Q4 2008 water quality report for the Hiawatha mine. Please contact me if you have any further questions.

**April A. Abate**  
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# WATER QUALITY MEMORANDUM Utah Coal Regulatory Program

March 3, 2009

TO: Internal File

THRU: Jim Smith, Permit Supervisor

FROM: April A. Abate, Environmental Scientist II April A. Abate  
Environmental Scientist II  
Utah Department of Environmental  
Quality  
303-261-7171

RE: 2008 4th Quarter Water Monitoring, Hiawatha Coal Company (HCC), Hiawatha Mine, C/007/0011-WQ08-4 Task #3131

Hiawatha Coal Company has supplied schedules for water monitoring and parameter reporting in Tables 7-12 through 7-17, in the MRP, updated on June 6, 2003. The Hiawatha Mine is currently not producing coal from the underground mine. There is currently no underground mining taking place.

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

*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. Spring sampling this quarter occurred from October 27-30, 2008. No flow was reported at spring sample locations SP-2, SP-12, and SP-13. Samples are analyzed for parameters identified in Table 7-12.  
**All springs were monitored during this quarter.**

**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).  
**Water quality data were reported in October 2008 for stream sample locations: ST-1, ST-2, ST-2B, and ST-5. All other stream locations were reported as dry.**

**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 monthly according to Table 7-13. Only two sites have yielded flow (D001 and D002). The UPDES locations D003 through D013 are listed in the current UPDES permit, which is due to expire on September 30, 2009. 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

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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
D011	South Fork Truck Loading Facility
D012	Mohrland Pipeline Drain
D013	King 6 Water Tank Overflow

**All UPDES sample locations were monitored this quarter except D005. This is the second quarter in a row that this point has not been monitored. All others were monitored; only D001 and D002 yielded flow.**

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

**Springs**      YES [ X ] NO [ ]

**Streams**      YES [ X ] NO [ ]

**UPDES**        YES [ ] NO [ X ]

Oil and Grease and Iron parameters were not sampled during the 4<sup>th</sup> quarter. These parameters are required to be sampled on a quarterly-basis as stipulated in the UPDES permit #UT0023094 issued by the Department of Environmental Quality.

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

**Springs**      YES [ X ] NO [ ]

Spring sample location SP-4 was outside of more than two standard deviations for the following parameters: dissolved magnesium and hardness. This sample location is an upgradient spring of the Left Fork of Miller Creek and represents spring water quality conditions upstream of the mine.

**Streams**      YES [ ] NO [ X ]

**UPDES**        YES [ ] NO [ X ]

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

Resampling due date: July 2009

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

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Resume monitoring UPDES sample D005 starting with the next round of sampling. Oil and Grease and iron samples should be collected on a quarterly basis for **all** UPDES sample locations.

- 6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements? [ X ] Yes [ ] No**

Provide an explanation to the Division as to why UPDES D005 has not been sampled or why it is infeasible to sample.

- 7. Follow-up from last quarter, if necessary.**

NONE

cc: S. Demczak  
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