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**From:** April Abate  
**To:** Melissa  
**CC:** OGMCOAL@utah.gov  
**Date:** 7/28/2009 2:05 PM  
**Subject:** Water Quality Reports for 1st Quarter 2009 - Bear Canyon and Hiawatha Mines  
**Place:** OGMCOAL@utah.gov  
**Attachments:** 0020.pdf; 0028.pdf; April Abate.vcf

Melissa,

Attached are the water quality reports for the Bear Canyon and Hiawatha mines. The only issues are with Hiawatha. We have not seen any oil and grease analysis since May 2008 for the UPDES samples collected. Could you verify that oil and grease analysis was done? It is a required parameter for quarterly sampling in the Hiawatha Mine UPDES permit. It may be that the analysis was done, but for whatever reason, the database was not uploading the results. Secondly, we are not showing any data for sample point D005. I know that it was monitored, but the data is not coming in. If you could check to see if everything loaded properly with that sample. We have had this problem with this particular sample before. And finally, I wanted to remind you that baseline parameter sampling is due in July 2009 for Hiawatha. I know it is getting late in the month at this point, so if you haven't done the sampling yet, please be advised it should be done within the coming weeks.

Thanks and please give me a call if you have any questions about the reports.

Regards,  
April

**April A. Abate**  
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# WATER QUALITY MEMORANDUM

## Utah Coal Regulatory Program

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July 23, 2009

TO: Internal File

THRU: James D. Smith, Permit Supervisor *DS 07/28/09*

FROM: April A. Abate, Environmental Scientist II *AAA 7-28-2009*

RE: 2009 1st Quarter Water Monitoring, Hiawatha Coal Company (HCC), Hiawatha Mine, C/007/0011-WQ09-01 Task #3228

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. No sampling was required 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). No sampling was required this quarter.

**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
D005	East of Slurry Pond No. 4
D006	North East of Slurry Pond No. 5

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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

According to the Utah Department of Water Quality, all sample locations were monitored during the first quarter of 2009. Although sample point D005 is being monitored (but not yielding any flow), the Division does not appear to be receiving any data from sample point D005. During the first quarter of 2009, only D001 and D002 yielded flow.

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

**Springs** YES  NO   
Not applicable

**Streams** YES  NO   
Not applicable

**UPDES** YES  NO   
It appears that Oil and Grease has not been sampled for the 1<sup>st</sup> quarter event.

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

**Springs** YES  NO   
Not applicable

**Streams** YES  NO   
Not applicable

**UPDES** YES  NO

UPDES sample D001 reported a pH level of 6.2, slightly lower than the acceptable range of 6.5-9.0.

**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?**

Oil and Grease 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?**  Yes  No

Please verify that the Division is receiving data uploaded from the water quality database for UPDES sample D005. It does not appear that any data have been received by the Division since June 2008. In the meantime, the Division will look into this issue to determine if there is a glitch in the database on our end.

Provide an explanation to the Division as to why oil and grease has not been sampled for.

Please also be aware of the baseline operational water monitoring sampling requirements scheduled for July 2009. If this sampling was unable to be completed in July, please notify the Division when the baseline sampling event is to occur.

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

No response from operator.

**WATER QUALITY  
MEMORANDUM  
UTAH COAL REGULATORY PROGRAM**

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July 27, 2009

TO: Internal File

FROM: April A. Abate, Environmental Scientist II *EA*  
7-27-2009

THRU: James D. Smith, Permit Supervisor *JDS #22109*

SUBJECT: 2009 First Quarter Water Monitoring, CW Mining Company, Bear Canyon Mine, C/015/0025, Task ID # 3248

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The monitoring plan is described on pages 7-48 through 7-60A of the MRP. It includes Tables 7-12 through 7-17.

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

**In-mine** YES  NO

SBC-9A was sampled and requires operational sampling during the first quarter.

Sample 16-8-8-10 was not sampled this quarter and not required to be sampled until July 2009.

**Springs** YES  NO

**Streams** YES  NO

**UPDES** YES  NO

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

**In-mine** YES  NO

**Springs** YES  NO

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

Not applicable. None of the UPDES data reported showed any discharges during the 4<sup>th</sup> Quarter 2008.

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

Listed parameters were outside two standard deviations. An asterisk (\*) indicates the parameter is not required.

<b>In-mine</b>	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
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<b>Springs</b>	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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Spring samples SBC-14 had two parameters that were outside of two standard deviations. Bicarbonate, dissolved magnesium, total alkalinity and hardness were reported outside of two standard deviations. However in comparing these values to previous data from this sample. These results appear to all be lower than what has been reported previously.

<b>Streams</b>	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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Samples BC-3 and BC-4 were reported as not flowing during the 1<sup>st</sup> quarter of 2009.

Dissolved sodium was reported at a higher than normal concentration in BC-1. BC-2 was also reported higher than usual concentrations for sodium, magnesium, and potassium. These elevated concentrations of salts could be attributed to runoff from the winter salting of the roads.

<b>UPDES</b>	YES <input type="checkbox"/>	NO <input type="checkbox"/>
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Not applicable. None of the UPDES collection points reported any flow during the 1<sup>st</sup> quarter of 2009.

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

Baseline parameters are to be taken in August of year 5 prior to each permit renewal (Table 7.14). The next permit renewal date is November 02, 2010, so the baseline analyses should be done on samples collected in August 2010.

**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

**8. Did the Mine Operator submit all the missing and/or irregular data?** YES  NO

Not applicable this quarter.