

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

OK

August 20, 2004

TO: Internal File

THRU: Wayne Hedberg, Permit Supervisor. *DWH*

FROM: Steve Fluke, Reclamation Hydrogeologist
SVF

RE: 2004, Second Quarter Water Monitoring, Canyon Fuel Company,
Gordan Creek 2, 7, & 8, C/007/0016-WQ04-2, Task ID #1939

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

No flow was reported for sites 2-1-W, 2-8-W, 2-9-W, and 2-11-W.

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

Resampling due date.

No baseline resampling due – permit expires 08/24/2004.

3. Were all required parameters reported for each site? YES [X] NO []

4. Were irregularities found in the data? YES [X] NO []

2-2-W: a total iron concentration of 1.37 mg/l was reported that exceeds the Utah Division of Water Quality (DWQ) Class 3A Cold Water Aquatic Wildlife limit of 1.0 mg/l. The cation/anion difference is high (4.5 percent difference) and outside of the two standard deviation range.

2-7-W: reported pH and concentrations of bicarbonate, chloride, total alkalinity, and total dissolved solids are outside of the two standard deviation range. However, none of the parameters exceed regulatory limits. Also, a total iron concentration of 2.56 mg/l was reported that exceeds the DWQ Class 3A Cold Water Aquatic Wildlife limit of 1.0 mg/l. Flow for this site was reported at 0.01 gpm.

2-10-W: reported a historically low dissolved sodium concentration of 1.15 mg/l which is outside of the two standard deviation range but does not exceed regulatory standards.

5. Were DMR forms submitted for all required sites?

1st month, YES [X] NO []
2nd month, YES [X] NO []
3rd month, YES [X] NO []

DMR data is submitted to the DOGM database. No flow was reported for UPDES site 2-1-W (discharge from the sediment pond).

6. Were all required DMR parameters reported? YES [X] NO []

7. Were irregularities found in the DMR data? YES [] NO [X]

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

Determine if reported values for temperature and pH reported for site 2-2-W are accurate. Continue monitoring for trends.

2-2-W: A total iron concentration exceeding the DWQ Class 3A Cold Water Aquatic Wildlife limit of 1.0 mg/l has not been reported for this site since May 1997. The cation/anion difference is reported by the laboratory, but cation/anion concentrations of individual parameters do not indicate such a great difference. Make sure the laboratory reported a correct value and continue monitoring site for trends.

2-7-W: This site is located at the permit boundary upstream of the disturbed area. Parameter concentrations are likely affected by low flow (0.01 gpm) as evidenced by normal parameter concentrations at the downstream site 2-10-W where flow has picked up to 0.04 mg/l. Continue monitoring for trends.