

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

July 13, 2005

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor

FROM: James D. Smith, Environmental Scientist

RE: 2005 First Quarter Water Monitoring, PacifiCorp, Deer Creek Mine, C/015/0018, Task ID # 2169

The Deer Creek Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

1. Were data submitted for all required sites?

Springs YES [] NO [X]

At Rilda Meters 2 and 3 - the only springs monitored in the first quarter - valve problems prevented collection of January and February flow data and flow data and water samples in March.

Streams YES [X] NO []

Wells YES [X] NO []

Most wells were inaccessible during the 1st quarter 2005.

UPDES YES [X] NO []

In-mine YES [X] NO []

2. Were all required parameters reported for each site?

Springs YES [] NO [X]

Rilda Meters 2 and 3: Valve problems prevented collection of January and February flow data and flow data and water samples in March.

Streams YES [X] NO []

HCC01: flow was not reported for January and February; however, flow at this site is measured by UP&L and the monitoring plan in Volume 9 only requires that it be reported in the Annual Hydrologic Report.

Wells YES [X] NO []

Most wells were inaccessible during the 1st quarter 2005.

UPDES YES [X] NO []

In-mine YES [X] NO []

3. Were irregularities found in the data?

Listed parameters were outside two standard deviations: “n” is the number of values used to calculate the standard deviation in the Division’s database. An asterisk (*) indicates this is not a parameter required by the MRP.

Springs YES [] NO [X]

Streams YES [X] NO []

HCC01: field pH (n = 96), field specific conductivity (n = 95), Ca (n = 31), Mg (n = 31), Na (n = 31), sulfate (n = 83), total hardness (n = 83), lab specific conductivity* (n = 84), TDS (n = 85), and total cations* (n = 82).

HCC02: Ca (n = 31), Na (n = 31), lab specific conductivity* (n = 83), and TDS (n = 82).

HCC04: field specific conductivity (n = 96), Ca (n = 31), Na (n = 31), Cl (n = 83), lab specific conductivity* (n = 84), and TDS (n = 83).

RCW4: field specific conductivity (n = 83), Ca (n = 30), lab specific

conductivity* (n = 50), and TDS (n = 50).

Wells YES [] NO [X]

UPDES YES [X] NO []

UT0023604-001 January 12: Na (n = 91), Cl (n = 195), lab specific conductivity* (n = 197), TDS (n = 204), total cations* (n = 189), and total anions* (n = 189).

UT0023604-001 January 19: field specific conductivity (n = 161), Na (n = 91), Cl (n = 195), lab specific conductivity* (n = 197), TDS (n = 204), total cations* (n = 189), total anions* (n = 189), and cation-anion balance (n = 31).

UT0023604-001 February: cation-anion balance (n = 31).

UT0023604-002 January 12: field specific conductivity (n = 194),

In-mine YES [X] NO []

Main North-Main East: water temperature (n = 44).

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

Renewal submittal due 10/07/05, renewal due 02/07/06. Baseline analyses were performed in 2001 and will be repeated every 5 years, i.e., the next baseline analyses will be in 2006.

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

The valve problems at NEWUA Meters # 2 and # 3 need to be resolved so flow measurement and water sampling can be done.

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

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

This is the second quarter the valve at NEWUA Meter # 3 has been inoperable and prevented scheduled monitoring. The valve problems at NEWUA Meters # 2 and # 3 need to be resolved so flow measurement and water sampling can be done..

8. Did the Mine Operator submit all the missing or irregular data?

NA