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WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

July 21, 2006

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor DWH

FROM: James D. Smith, Environmental Scientist JDS

RE: 2006 First Quarter Water Monitoring, Task No. 2439, PacifiCorp, Deer Creek Mine, C00150018

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

Springs YES ☒ NO ☐

Rilda Meter 2 and 3 are the only springs scheduled to be monitored during the 1st quarter, and they were not accessible.

Streams YES ☒ NO ☐

Wells YES ☒ NO ☐

UPDES YES ☒ NO ☐

In-mine YES ☒ NO ☐

2. Were all required parameters reported for each site?

Springs YES ☒ NO ☐

Rilda Meter 2 and 3 are the only springs scheduled to be monitored during the 1st quarter, and they were not accessible.

Streams YES ☒ NO ☐

Most sites were either inaccessible or not flowing.

Wells YES ☒ NO ☐

UPDES YES ☒ NO ☐

In-mine YES ☒ NO ☐

3. Were any 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.

In-mine YES ☐ NO ☒

Springs YES ☐ NO ☒

Streams YES ☒ NO ☐

DCR04 March: field conductivity (n = 109), Ca (n = 32), Mg (n = 32), Na (n = 32), Cl (n = 72), lab specific conductivity* (n = 75), TDS (n = 75), total cations* (n = 71), and total anions* (n = 71).

DCR06 March: Cl (n = 80), lab specific conductivity* (n = 98),

HCC01 March: field DO (n = 93), field conductivity (n = 99), Ca (n = 35), Mg (n = 35), Na (n = 35), SO4 (n = 72), total hardness (n = 87), lab specific conductivity* (n = 87), TDS (n = 89), total cations* (n = 86), and total anions* (n = 86).

HCC02 March: field DO (n = 92), field conductivity (n = 98), Ca (n = 35), Mg (n = 35), Na (n = 35), Cl (n = 86), SO4 (n = 84), total hardness (n = 86), lab specific conductivity* (n = 87), TDS (n = 86), total cations* (n = 83), and total anions* (n = 83).

HCC04 March: field DO (n = 92), field conductivity (n = 100), Ca (n = 35), Mg (n = 35), Na (n = 35), Cl (n = 87), total hardness (n = 87), lab specific conductivity* (n = 87), TDS (n = 87), total cations* (n = 84), and total anions* (n = 84).

RCF3 March: field DO (n = 79).

RCW4 March: field DO (n = 80), field conductivity (n = 86), Ca (n = 33), Mg (n = 33), SO4 (n = 53), total hardness (n = 53), lab specific conductivity* (n = 53), TDS (n = 53), total cations* (n = 52), and total anions* (n = 52).

UPDES YES ☒ NO ☐

UT0023604-001 March: field pH (n = 177)

Wells YES ☐ NO ☒

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.

Baseline parameters were measured at some sites during the 1st Qtr 2006. There was no flow at most stream sites, and no springs other than NEWUSSD's two Rilda meters were scheduled to be monitored. Baseline parameters are not determined for UPDES sites.

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

At least one set of water samples, preferably collected at low flow, should be analyzed for 5-year baseline parameters.

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 (4th Qtr 2006), if necessary. YES ☐ NO ☒

8. Did the Mine Operator respond adequately to queries about missing or irregular data? YES ☒ NO ☐

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