

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

September 27, 2007

OK

TO: Internal File

THRU: Pamela Grubaugh-Littig, Permit Supervisor *pgl*

FROM: James D. Smith, Environmental Scientist *DS 10/04/07*

RE: 2007 Second Quarter Water Monitoring, PacifiCorp, Deer Creek Mine.
C/015/0018, Recurring Task # 2711

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

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

| | | |
|----------------|---|-----------------------------|
| Springs | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
|----------------|---|-----------------------------|

The valve on NEWUA Meter 2 was not functioning during the second quarter 2007, so no samples were collected

| | | |
|----------------|---|-----------------------------|
| Streams | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
|----------------|---|-----------------------------|

| | | |
|--------------|---|-----------------------------|
| Wells | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
|--------------|---|-----------------------------|

| | | |
|--------------|---|-----------------------------|
| UPDES | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
|--------------|---|-----------------------------|

| | | |
|----------------|---|-----------------------------|
| In-mine | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
|----------------|---|-----------------------------|

2. Were all required parameters reported for each site?

| | | |
|----------------|---|-----------------------------|
| Springs | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
|----------------|---|-----------------------------|

| | | |
|----------------|---|-----------------------------|
| Streams | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
|----------------|---|-----------------------------|

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. An asterisk (*) indicates this is not a parameter specifically required by the MRP.

Springs YES NO

NEWUA Meter 3 June: water temperature.

Streams YES NO

HCC-02: cation-anion balance;
HCC-04: cation-anion balance;
RCW4 June: field specific conductivity, Ca; Mg, SO4, total hardness, lab specific conductivity*, TDS, and total cations*;
RCF2 June: water temperature, lab specific conductivity*.
MF-B June: field specific conductivity, Ca; Mg, Na, SO4, total hardness, lab specific conductivity*, TDS, and total cations*;

Wells YES NO

DCWR1: Mg and total hardness.

UPDES YES NO

UT0023604-002 June: Na.

In-mine YES NO

Main North-Main East: Mg, bicarbonate as CaCO3, total alkalinity*, lab electric conductivity*.

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

Baseline analyses were performed in 2001 and are to be repeated every 5 years; baseline analyses were done in 2006 and should be done again in 2011: renewal submittal due 10/07/10, renewal due 02/07/11.

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 (datum)?**

NA