



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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OK

July 31, 2001

TO: Internal File
THRU: Daron R. Haddock, Permit Supervisor *DRH*
FROM: James D. Smith, Senior Reclamation Specialist *JDS*
RE: 2000 Third Quarter Water Monitoring, CO-OP Mining Company, Bear Canyon Mine, C/015/025-WQ00-3

1. Were data submitted for all of the MRP required sites? YES [X] NO []
Identify sites not monitored and reason why, if known:

No flow at BC-3 and SBC-6.

2. On what date does the MRP require a five-year resampling of baseline water data.
See Technical Directive 004 for baseline resampling requirements. Consider the five-year baseline resubmittal when responding to question one above. Indicate if the MRP does not have such a requirement.

Resampling Due Date

Renewal submittal due 07/02/00, renewal due 11/02/00. Baseline parameters are to be taken in August of year 5 prior to each permit renewal (Table 7.1-8). Baseline parameters were measured August 2000 and included with the Third Quarter data submittal.

3. Were all required parameters reported for each site? YES [] NO [X]
Comments, including identity of monitoring site:

- NO3, a baseline parameter, was not reported for any site;
- SMH-2: NH3 a baseline parameter, was not reported with the August results;
- SMH-1: July report did not include operational parameters:
- SMH-2: July report did not include operational parameters:
- SMH-3: July report did not include operational parameters:
- SMH-4: July report did not include operational parameters:

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

Comments, including identity of monitoring site:

SBC5: K (n = 26) is outside two standard deviation range;
SBC-13: Mb (baseline parameter, n = 5) is outside two standard deviation range;
SMH-2: TDS (n = 10) is outside two standard deviation range;
SMH-3: Flow (n = 12) is outside two standard deviation range;
DH-1A: Water Elevation (n = 56) and Depth (n = 56) are considerably outside two standard deviation range – this may be due to using the wrong units when entering the value into the APPX database;
BC-2 – July field data: Water Temperature (n = 126) is outside two standard deviation range;
BC-2 – August operational data: CO3 (n = 31) is outside two standard deviation range;

5. Were DMR forms submitted for all required sites?

1st month, YES [X] NO []

2nd month, YES [X] NO []

Identify sites and months not monitored:

3rd month, YES [X] NO []

No flow reported for sites 002, 003, 004, and 006;
No reports for any quarter for site 007, which is the not-yet-built sedimentation pond at the Wild Horse Ridge Addition.

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

Comments, including identity of monitoring site:

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

Comments, including identity of monitoring site:

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

At DH-1A, Water Elevation and Depth values need to be checked to see if the correct values were entered into the APPX database.

Other irregularities in monitoring data do not appear significant and no further action is recommended other than watching for possible trends.