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file

February 10, 1989

TO: John Whitehead, Permit Supervisor

FROM: Tom Munson, Reclamation Hydrologist *TM*

RE: Review of 1988 Water Data, Co-Op Mining Company, Trail Canyon Mine, ACT/015/021, and Bear Canyon Mine, ACT/015/025, Folder #2, Emery County, Utah

Synopsis

The Division received Co-Op Mining Company's Fourth Quarter Water Quality Data for 1988. The following memo reviews this data and makes the appropriate recommendations for changes in their water sampling program, based on the baseline data collected to date.

Analysis

STREAMS

1. Upper Trail Canyon - The operator met his baseline commitment in 1988 and can now sample operational and field parameters on a bi-annual basis during the months of May and October. This station is ephemeral in nature, so a snowmelt sample and a rainfall-runoff sample will be considered appropriate. A baseline suite of samples will be collected in October of 1993.
2. Lower Trail Canyon - The operator met his baseline sampling commitment in 1988 and can now sample operational and field parameters on a bi-annual basis during the months of May and October. A baseline suite of samples will be collected in October of 1993.

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3. Upper Bear Creek - The operator met his baseline commitment in 1988 and can now sample operational and field parameters on a quarterly basis during the months of February, May, August and October. Field parameters will be collected monthly during the runoff season of May through October. A baseline suite of samples will be collected in October of 1990 and every fifth (5) year thereafter.
4. Lower Bear Creek - The operator met his baseline commitment in 1988 and can now sample operational and field parameters on a quarterly basis during the months of February, May, August and October. Field parameters will be collected during the runoff season of May through October. A baseline suite of samples will be collected in October of 1990 and every fifth (5) year thereafter.
5. Right Fork of Bear Creek - The operator met his baseline commitment in 1988 and can now sample operational and field parameters on a quarterly basis during the months of February, May, August and October. Field parameters will be collected during the runoff season of May through October. A baseline suite of samples will be collected in October of 1990 and every fifth (5) year thereafter.

WELLS

1. Portal Well SBC-2 - Dry all of 1988.
2. Creek Well SBC-3 - Dry all of 1988.

The operator can continue checking these wells on a quarterly basis during the months of February, May, August and October.

SPRINGS

Trail Canyon Springs BS-1, CS-1, TS-1, and PS-1, as well as Birch Spring (SBC-5) can be sampled during the months of May and October for operational and field parameters. A baseline suite of parameters will be collected in October of 1993.

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Bear Canyon Huntington Spring (SBC-4) and Co-Op Development Spring (SBC-6) will continue to be sampled on a quarterly basis during the months of February, May, August and October for operational and field parameters. A baseline suite of samples will be collected in October of 1990.

IN-MINE

Bear Canyon The operator has completed a year of quarterly baseline sampling on sites SBC-7 and SBC-8 in 1988. One more year of baseline sampling is required on these stations during the months of February, May, August, and October for 1989. Operational sampling can be instituted after 1989 and a baseline suite of samples picked up in 1995.

Recommendations

The operator must submit a table which reflects the sampling schedule recommendations spelled out in the analysis section of this memo for insertion into the mine plan and annual water quality report submittal. This must be submitted by February 30, 1989. This table must list all the stations sampled, the months sampled, and whether field, operational, or baseline samples will be taken.

djh
AT5/31-33