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# State of Utah

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May 31, 1989

TO: Richard V. Smith, Permit Supervisor

FROM: Darin Worden, Reclamation Hydrologist *DW*

RE: 1988 Annual Report, Beaver Creek Coal Company, C. V. Spur Loadout Facility, ACT/007/022, Folder #2 and #5, Carbon County, Utah

## Synopsis

On March 31, 1989, Beaver Creek Coal Company submitted the annual report for the C. V. Spur Loadout Facility. This memo reviews the hydrologic aspects of that report.

## Analysis

No surface water samples were taken in 1988. Either no surface water was produced on site, or samples were not taken. The report showed all appropriate constituents tested for, except settleable solids.

Ground water samples were taken in May and November. All appropriate constituents were analyzed. The sampling frequency was in accordance with the operators approved plan.

No out-of-compliance or above background level concentration for any constituent was found.

## Recommendation

Implement a new surface water monitoring station at the western end of the permit boundary where the undisturbed diversion ditch from this end of the permit area begins. This is addressed in the 5-year permit renewal completeness review.

Sample the surface runoff whenever it flows. Add settleable solids to the surface water monitoring constituent list.

Improve the annual report by adding a section on trend analysis including graphs and charts using new and historical data.

djh  
AT30/34