



Norman H. Bangarter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

ACT/007/022
2

September 29, 1988

TO: John Whitehead, Permit Supervisor

FROM: Jim Fricke, Reclamation Hydrologist *JF*

RE: Water Monitoring Review Second Quarter, Beaver Creek Coal Company, Gordon Creek #2 and 7 Mine, ACT/007/016; Gordon Creek #3 and 6 Mine, ACT/007/017; Trail Mountain #9 Mine, ACT/015/009; and C. V. Spur Loadout, ACT/007/022, Folder No. 2, Carbon County, Utah

Synopsis and Analysis

August 1, 1988, Beaver Creek Coal Company (BCCC) submitted Second Quarter water monitoring data for 1988. The data was reviewed and comments are noted on the attached sheets.

September 28, 1988, Division Hydrologist Jim Fricke met with BCCC Environmental Compliance Manager Dan Guy and water monitoring consultant Mel Coonrod, to discuss comments and discrepancies concerning the Second Quarter water monitoring.

BCCC has committed to clarifying data discrepancies, prior to submittal of the Third Quarter water monitoring data.

Field Data

Springs T-19, TM-23 and Well TM-1 were sampled for field parameters on September 28, 1988.

Field Parameters

Station ID	Time	Water Temp °F	Water Level or Flow (gpm)	pH	Conductivity
T-19	12:30	58.0	45.6	8.3	858
TM-23	2:10	54.5	37.8	7.1	630
TM-1(Well)	1:40	55.3	26.9 feet	6.9	3,380

Page 2
Memo to J. Whitehead
BCCC Mines (4)
September 29, 1988

Recommendations

Beaver Creek Coal Company must monitor TM-1, T-23 and T-19 for the months of September, October, November and December.

The new conductivity meter purchased by the BCCC consultant does not record accurate readings. On-site comparison of conductivity readings with the Division's meter presented significantly different conductivity readings. The Division's meter was checked with conductivity standards and was found to be recording accurate values. The operator must have accurate field equipment for water monitoring.

djh
WP+/21-22

9/23/88

Beaver Creek Coal - Trail Mtn #9 Mine - 2nd Quarter Water Quality

Station

Comments

SW-1, SW-2
SW-3
(perennial stream)

- Bicarbonate is not on the water quality report form. Lab sheet provided HCO₃ for 2nd quarter but not 1st quart.
*BCEC will rectify on 3rd quarter submittal

TM-1 ✓
(well)

- Reported as a spring, listed as a well in the mine plan. Reported dry during June 30, 1988.

TD-650'

- Well was not sampled during 1st quarter of 1988
- Was sampled 12/29/87 - no field data

Springs ✓

T-6
T-10
T-14 (listed as 14a)
T-14a (" " 14b)
T-15
T-19
TM-2-1
TM-23

Lab Conductivity

953
701
240
190
not sampled
716
"Dry"

Field Conductivity

180
460
890
1340
not reported
500

Mei got a new meter

* TM-23 →
TM-1

- Sampled wrong area, Mei will sample monthly till end of year.

* Beaver Creek commitments

9/26/88

CV Spur Loadout - 2nd Quarter Water Quality Review

Station

Comments

	<u>Field Conductivity</u>	<u>Lab TDS (calc)</u>	
CV-10	15,000	3880	Samples not filtered
CV-11	10,000	43,320*	Bicarbonate not correct on report form
CV-12	10,000	3540	

Gordon Creek 2/7

- 2-2W CaCO₃ not correct on report form
- 2-3W TSS, TDS, Hardness, Acidity, CO₃, HCO₃ not correct on report form. TDS + Cond ²⁶² ⁴¹⁰
- 2-5W [report form] pH (185), Temp (7.9) reads 3° on field sheet TDS-240, Cond-400
- 2-8W Cond-220 TDS-598
- 2-10W Bicarbonate not reported for 1st Quarter

* 1. Forms will be cleaned up on 3rd quarter forms.

* Beaver Creek ~~commitments~~ ^{commitments}