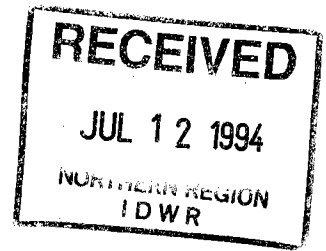




## United States Department of the Interior

U.S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
1500 Highway #2  
Room 336, Federal Building  
Sandpoint, Idaho 83864



July 11, 1994

Mr. Al Beardslee  
Idaho Department of Water Resources  
1910 Northwest Boulevard  
Coeur d'Alene, Idaho 83816

Dear Al,

Below are my notes from the reconnaissance we took on June 20, 1994. Again, I would like to thank you for your hospitality and also for chauffeuring me around.

### TWIN LAKES RECONNAISSANCE NOTES

I met with Al Beardless of Idaho Department of Water Resources on June 20, 1994, at the dam at Twin Lakes, Idaho. Also present and included in the reconnaissance at the dam and Rathdrum Creek was Bart North of Welch, Comer and Associates.

Although an outside staff gage is located on the upstream right bank culvert of the Gunnings road crossing at Rathdrum Creek, it was expressed that this location was too far downstream to accurately record actual released water at the dam since this reach is suspect of losing water primarily through the streambed. A tentative site for stage measurements was located approximately 80 feet downstream from the outlet and approximately 15 feet upstream from a natural control. I recommended that a sloping gage be installed on the concrete skirting, left bank side, above the control for a basic stage vs. discharge relationship.

A series of discharge measurements could be made at selected intervals on Rathdrum Creek while keeping the release steady, at the dam, in order to more accurately document water losses.

Bart North stated that levels were run and staff plates were set on the left bank wing-wall at the dam outlet and set to sea level datum.

Two continuous shelters are in place, one on the left bank side of Rathdrum Creek 200 feet downstream from the dam, and the other is located on the lake left bank side approximately 15 feet upstream from the dam. Both recorders are not operational and the intake pipe on the recorder at Rathdrum Creek was too high to record the static water level.

The staff gage on Fish Creek at the Easterday Ranch (12419100) is located approximately 20 feet

upstream from the bridge, right bank side. The natural boulder and cobble low flow control appears stable.

#### SUMMARY

It appears that this is a water rights control issue on a very limited budget. The Survey, being in the Hydrologic Data Collection business, would be interested in being involved from the making of basic discharge measurements to a complete continuous recording stations. Please feel free to call Mr. Steve Lipscomb at (208) 387-1320 with your needs so he can provide you with some direction concerning costs or call me at (208) 263-4123 for further clarification.

Sincerely,



Rick L. Backsen  
Supervisory Hydrologic Technician

Copy To: Steve Lipscomb