



State of Idaho

DEPARTMENT OF WATER RESOURCES

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PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

June 25, 1998

BILL JONES
BOX 265
HAGERMAN ID 83332

RE: Water Measurement Concerns on Bar-S Ditch, Jones Irrigation
Pumps and Hoagland Tunnel Ditch

Dear Bill:

Time Luke has identified a few items of concern regarding your diversions that he would like me to look into during this coming month. I will be following up with a call to you sometime after the July 4th holiday to make arrangements to meet with you.

The items are as follows:

Bar-S Ditch weir

When Tim and I were at the hatchery a few weeks ago, we noticed that the raceway weir at the head of the Bar-S Ditch is submerged and no longer operating properly. Since there has been recent work to enclose the Bar-S ditch just downstream from the hatchery, we suspect this is causing flows to back up and affect the weir. If this situation cannot be corrected, there will need to be another type of measuring device installed at this location. We would recommend the weir be replaced with a submerged orifice, which should operate properly under the given conditions.

Jones Irrigation Pumps

On the same visit to the Hagerman area, Tim also noted that you have modified your irrigation system near the hatchery from a single pivot to two mini-pivots. A change of this nature will affect the PCC value which was developed for this pump, especially if both pivots do not always operate together. This pumping plant must be re-evaluated to determine if the PCC method may still be used. If not, you will be required to install a flow meter.

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Hoagland Tunnel Ditch

I will make arrangements to borrow a portable ramped broad-crested weir from the Bureau of Reclamation and would like to use it to measure the flow in the Hoagland Ditch. Tim has been trying for some time to find a suitable device for this ditch and believes the ramped weir is the best candidate. I need to experiment with a few different weir sill heights to determine the proper height for the range of flows in the ditch so that we can recommend a device.

If you would like to discuss any of the above items prior to my visit, please feel free to contact me at 208-327-5406 or Tim at 208-327-7864. Otherwise, I will be in contact with you in about two weeks.

Sincerely,

Cindy Hodges

Cindy Hodges
Sr. Water Resource Agent
Water Distribution Section

cc: Dan Yore
Tim Luke