



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

June 8, 2001

Demar Romrell
6000 Pegram Rd
Montpelier, ID 83254

Re: Measuring Device Information

Dear Mr. Romrell,

Thanks for your call today regarding the measuring device order. I appreciate your willingness to acknowledge a problem with the current measuring structure and your cooperation to make improvements. Attached is some basic information regarding some common measuring devices.

I suggest that you consider installation of a weir or flume in your ditch. Our water right records show that the Nuffer Ditch has a total water right capacity of about 36 cfs. If the device needs to handle flows up to this rate, then you should probably consider a Cippolletti or Rectangular weir with a length of about six feet. This size weir and a flow rate of 36 cfs will probably raise the water level in the ditch above the weir (ditch freeboard) by about 2.5 feet. If freeboard is a concern and/or the ditch does not have adequate fall or slope, you should consider a Parshall flume. A flume size of about 3 or 4 feet would probably work well in your ditch to obtain a maximum flow of 36 cfs. Prefabricated Parshall flumes can be purchased from several different vendors (some flumes sold as one unit, or in parts and assembled in the field). I have enclosed a copy of a brochure on such flumes. Contech Construction Products in Salt Lake City makes and sells Parshall flumes of various sizes. They sell flumes in parts that must be assembled in the field. Their address and phone number is included on an attached sheet. I have asked them to forward you some updated information and costs. Intermountain Environmental in Ogden also sells some flumes. You may contact them at (800)-948-6236.

If you feel you must have additional time to comply with the Department's order, you must submit a request in writing to this office justifying any proposed extension. Please be advised that the Department and the State of Idaho has an obligation under the interstate Bear River compact agreement to protect water users in both Idaho and the other participating states. Given this obligation and the need to provide accurate measurements in a drought year, I believe it will be difficult to consider an extension beyond the original date.

Please call me directly at 327-7864 if you have further questions or need any additional assistance.

Sincerely,

Tim Luke
Water Allocations

Cc: Pete Peterson, Watermaster