

SEAA 1143
Pleasant Creek Lower Bowns (PC-LB) Diverter
(Near new ORV campground)
Removal of Rectangular weir
August 5, 2008

After this office reviewed the functioning of the rectangular weir placed in the subject diversion we have determined that the installation interferes with the flow and distribution of water in the structure, preventing water from flowing to the Lower Bowns side of the diversion unless very high flows are encountered.

For this reason we are requiring that the weir be removed and reinstalled at a suitable location downstream from the PC-LB diversion structure. Removal of the weir from the structure does not negate the need to measure water diverted to the Lower Bowns reservoir. This flow must still be measured. Please work with the commissioner to determine a suitable location for installing the structure where it can provide a reliable measurement and not disrupt flow. WE anticipate that this will be nearby and downstream of the structure.

The pleasant creek side of the diversion structure has a measuring device that should be left in place. Although it has leaks and is not level it provides some indication of flow to the pleasant creek side. On a temporary basis and until the rectangular weir is reinstalled, the flume can be used to measure low flows on occasion using the following method:

- 1) Open gate fully and divert all water through the Pleasant creek flume, & note measurement.
- 2) Close Pleasant creek gate slowly and divert part of the water to the lower Bowns side.
- 3) Allow flow to stabilize for a few minutes, take a reading & subtract from the reading in step 1
- 4) The difference between the first reading and the second reading is the amount of flow diverted to Lower Bowns side.
- 5) Repeat and adjust as necessary to achieve the desired flow.

This method will only work during low flows when much of the flow is needed on the Pleasant creek side. The water commissioner is responsible for making the gate settings, you should not adjust the gate unless directed to do so by the water commissioner.

This is also the time of the year when the pleasant creek flow drops to a point where diversions from oak creek to pleasant creek (through parks pasture) may be necessary, the pleasant creek side is allowed up to 1 cfs of flow, if the flow drops below 6 at the weir above Notom. Again the water commissioner will be responsible for making these gate settings.

SCANNED