



State of Idaho

DEPARTMENT OF WATER RESOURCES

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December 12, 2007

SPF Water Resource Consultants
600 E. River Park LN, Suite 105
Boise ID, 83706

Attention: Scott King P.E.

RE: Porter Permit No. 63-12550 Volume Calculation

Mr. King,

I received Mr. Porter's letter regarding his estimation of the volume of water he diverts under his current permit. He basically stated that he diverts the full authorized rate year round when flows are sufficient. I was hoping to acquire more specific numbers, such as an average flow rate and how many months during the year the water is not available due to the winter freeze. I have provided below an estimation of what seems to be a reasonable volume calculation based on the evidence at hand. If you and your client find this to be an accurate estimate of the volume being put to beneficial use please respond indicating such and that amount will be used on the license. If you feel this is not an accurate estimate please respond and provide evidence as what you would consider a more accurate estimate to be. I estimate an average flow rate of 3.0 cfs (found at the time of the field exam) and 305 days for the season of use (subtracted two months for winter freeze).

$$\begin{aligned} V &= [\text{Diversion Rate (cfs)}] \times (\text{Days in Season of Use}) \times 1.9835 \\ &= 3.0 \times 305 \times 1.9835 \\ &= 1815.0 \text{ Acre Feet} \end{aligned}$$

The diversion rate will still be allocated at 5.0 cfs as it was shown at the time of the exam the system was capable of delivering this amount during spring flows. Your attention regarding this matter is greatly appreciated.

Regards,

Jeff Harris
Water Resource Agent