



SPF WATER
ENGINEERING

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DEPARTMENT OF
WATER RESOURCES

July 30, 2012

Cherie Palmer
Senior Water Resource Agent
Idaho Department of Water Resources
322 East Front Street
P.O. Box 83720
Boise, ID 83720-0098

Subject: Flow Rate Measurement – Permit 65-13640

Dear Cherie,

As requested by your email of March 5, 2012, I conducted a physical measurement of the flow rate diverted under permit 65-13640 on July 25, 2012.

The flow measurement was made with an installed flow meter located on the pipeline from Payette Lake to Whitetail Lake. The flow meter was new when installed in the pipeline earlier this year. The meter is a Seametrics insertion meter with a model FT415W-64 display and serial number 05122427. The meter is located in a manhole as shown in Figures 1 through 4.

The flow meter displays rate in gallons per hour and total flow in gallons. At the time of measurement, the rate was fluctuating between 32,000 and 34,000 gph (i.e., 1.19 cfs and 1.26 cfs). Total flow over a 5-minute period was 2685 gallons, equivalent to a flow rate of 1.20 cfs. These measured flow rates are comparable to the theoretical flow rate of 1.22 cfs that was calculated in the field exam that was submitted to your office last year.

Please contact me with any questions.

Sincerely,

Terry M. Scanlan, P.E., P.G.

Cc: Rick Mooney

SPF file number: 157.0070



Figure 1 – Flow meter location. The flow meter is located in a manhole, a few feet west of the golf cart path and south of Whitetail Drive.



Figure 2 – Flow meter manhole looking north. Intersection of Whitetail Drive and the maintenance shop access is in the background



Figure 3 – Flow meter saddle-mounted to pipe and digital display.



Figure 4 - Flow meter display. Upper number is instantaneous flow in gph. Lower number is total flow in gallons.