

White River Fish Hatchery
Ground Water Application G1-25214
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Test well No. 10 is producing 375 gpm and is about 530 feet from the river. This well does not have significant hydraulic continuity by these guidelines.

Test well No. 11 was recently completed and was pumped at 500 gpm for 32 hours. It is about 160 feet from the river. This well has significant hydraulic continuity with the White River using the same guidelines.

Ecology received four protests to this application from individual homeowners who live between 1.2 and 2.5 miles upstream of the fish hatchery site. On March 22, 1989, Troy Tremblay and I examined the protestants wells. Field and well log examinations indicate that these wells should not be adversely affected by the withdrawal of ground water at the White River Fish Hatchery site. The protestants' wells appear to be in different aquifers than that of the fish hatchery and are significantly up-gradient enough not to be affected even if they were.

I recommend that, because of the limited aquifer extent and proximity of the wells at the White River Fish Hatchery to the White River, all of the wells be considered to have significant hydraulic continuity with the White River. This is based on the geologic constraints whereby the generally permeable aquifer deposits lie within an erosional channel within the relatively impermeable Osceola Mudflow deposits. In such a situation, the significant recharge would undoubtedly come from a river flowing through the system. It is possible that a limited amount of recharge may enter the system from localized ground water flow. However, such recharge would normally contribute to stream flow if it wasn't being captured before reaching the river.

The White River has been closed to consumptive appropriations since adoption of the Puyallup River Basin Instream Program (WAC 173-150-040). The ground water provision of WAC 173-508-050, which says in part that the natural interrelationship of surface and ground water shall be fully considered, appears to support this recommendation.

JL:dw