

Wells Hatchery Modernization

Site Overview

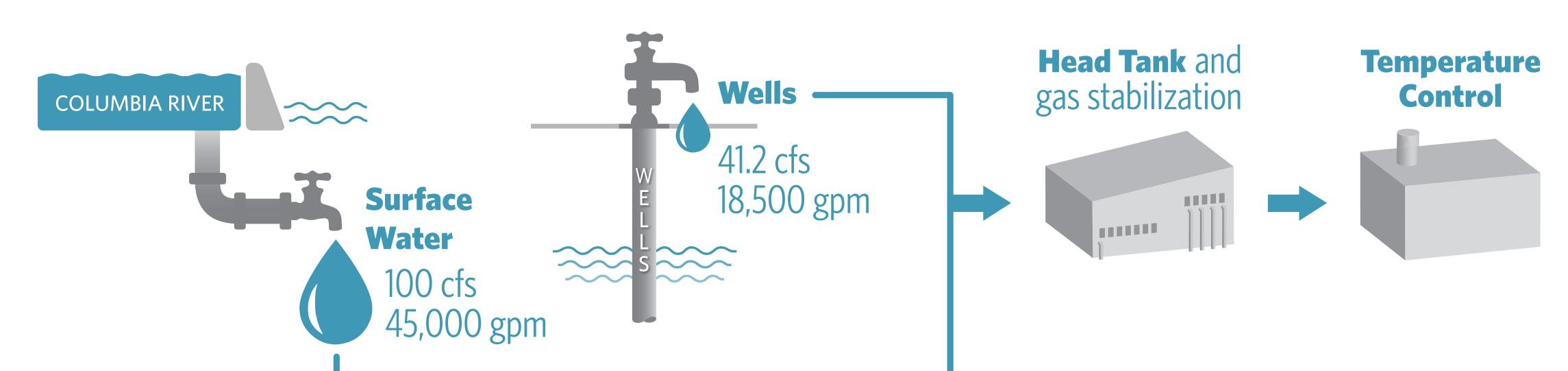
The Wells Hatchery is dedicated to the production of summer steelhead, summer Chinook, and coho for enhancement of natural production and to provide harvest opportunities, white sturgeon for a restoration program, and trout, kokanee, and Lahontan cutthroat trout to provide recreational fishing opportunities in regional waters. Wells Hatchery was constructed by Douglas PUD in 1967 and is adjacent to the Wells Hydroelectric Project.

The Wells Hatchery was built and funded by Douglas PUD and Grant PUD. Douglas PUD is funding the steelhead programs in the Twisp, Methow, and Columbia Rivers, and Grant PUD is funding the steelhead programs in the Okanogan Basin.



Wells Hatchery, Pateros, WA (2017)

Wells Hatchery Water Supply





One of two Well Water Pipelines (18,500 gpm)



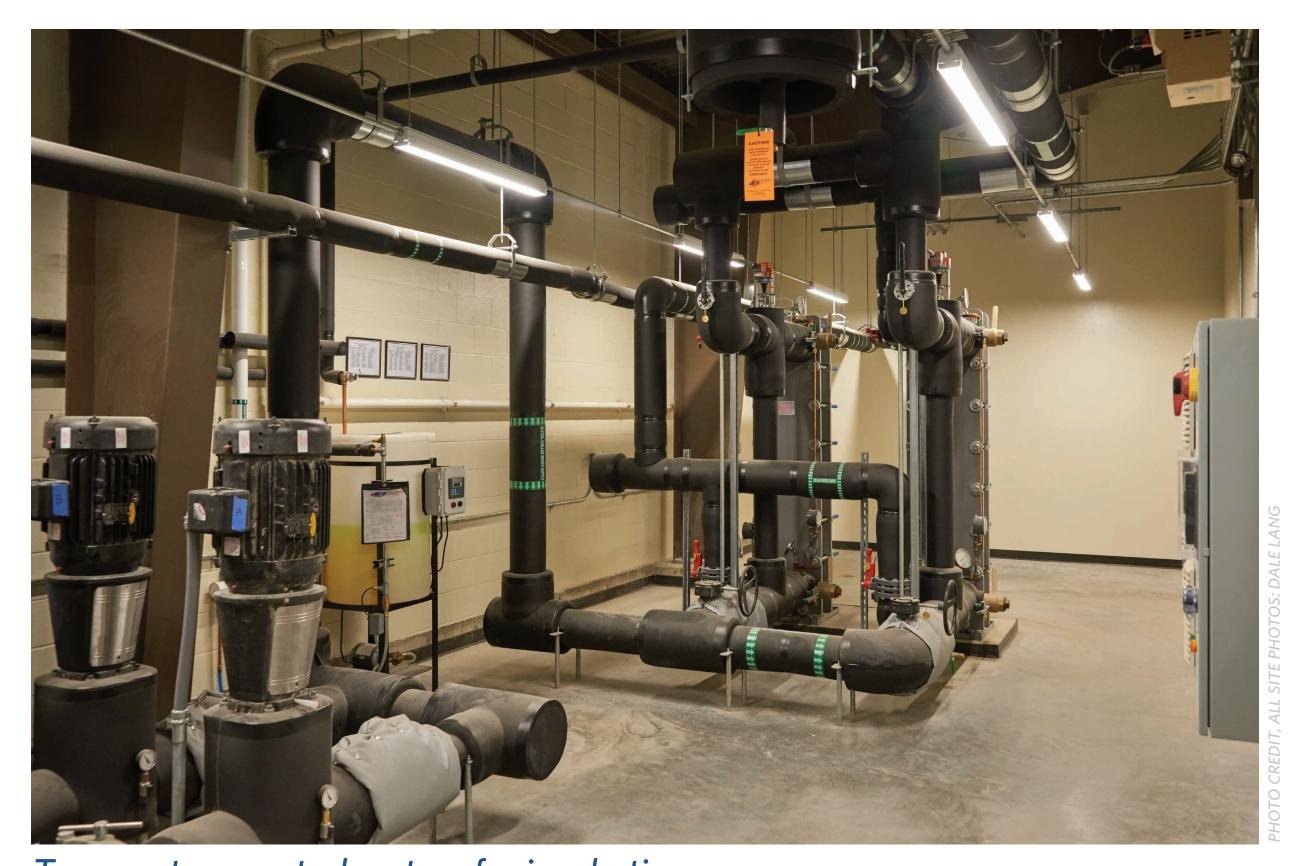
Head Tank and gas stabilization for well water and surface water



Surface and groundwater flow management and data collection

The Challenge

A carefully timed construction schedule had to be maintained to ensure select areas of the hatchery would be operational at certain times. As planned, all fishery obligations were met and the construction schedule was successful. During the modernization three new wells were added, the old spawning channel was removed and replaced with a modern trapping and holding facility, biosecurity was optimized, low density rearing vessels were added, and Dam safety was enhanced.



Temperature control system for incubation











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Hatchery Facilities



Administration, incubation, and early rearing facility



One of seven bio-secure incubation rooms



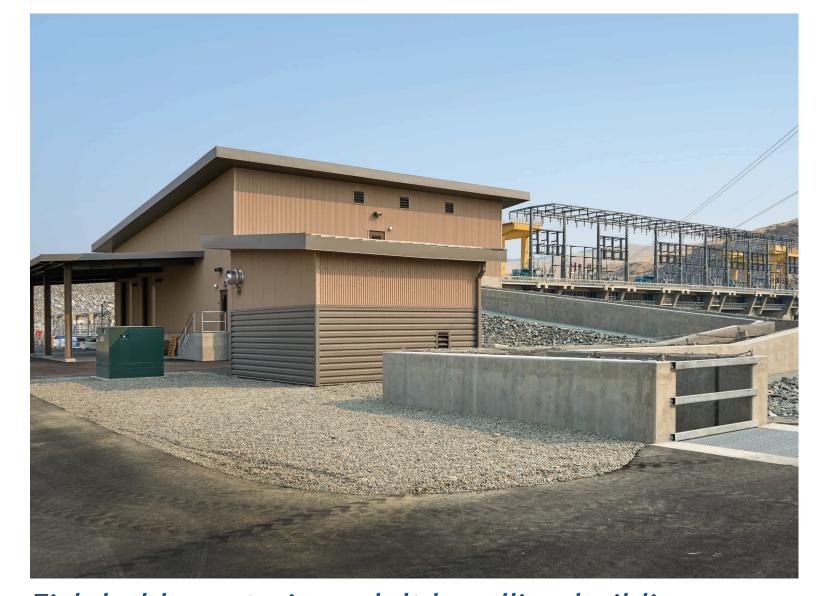
Semi-enclosed fingerling rearing facility

Program & Design Capacity	
Program Type	Program Design Capacity (no.)
Chinook Yearling	320,000
Chinook Subyearling	484,000
Coho	450,000
Steelhead Columbia Inundation	200,000
Steelhead Methow Inundation	100,000
Steelhead Twisp NNI	48,000
Steelhead Omak	55,000
Steelhead Okanogen Basin	55,000
Rainbow Jumbo	2,000
Rainbow Catchable	32,000
Rainbow Fingerling	60,000
Cutthroat Trout Catchable	160,000
Cutthroat Trout Fingerling	75,000
Lahontan Cutthroat Trout	300,000
Kokanee	300,000
Sturgeon	6,500

Adult Fish Facilities



Adult facility entrance from the Columbia River



Fish ladder entering adult handling building



Adult trap and conveyance to sorting table



Anesthesia tanks



Six adult holding tanks with transfer system







