

CHELAN RIVER HABITAT CHANNEL SEDIMENT REMOVAL

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Presentation for the
Board of Commissioners

Presented by Jeff Osborn
and Tyler Sellers

Habitat Channel Soon After Completion 2009



Key Project Elements

- Habitat Channel completed in 2009 as a requirement of the new Lake Chelan license
- License requirement to maintain channel throughout the life of the license
- Sediment Basin scheduled for regular maintenance in 2016
- High spill levels (9,000 cfs) in 2016 deposited gravel
- Conducted gravel removal near log structure and tailrace in addition to sediment basin cleanout
- Potential for Chinook salmon and steelhead spawning on gravel deposits
- Potential for redd (nest) dewatering after spawning flows concluded

Habitat Channel Maintenance 2016



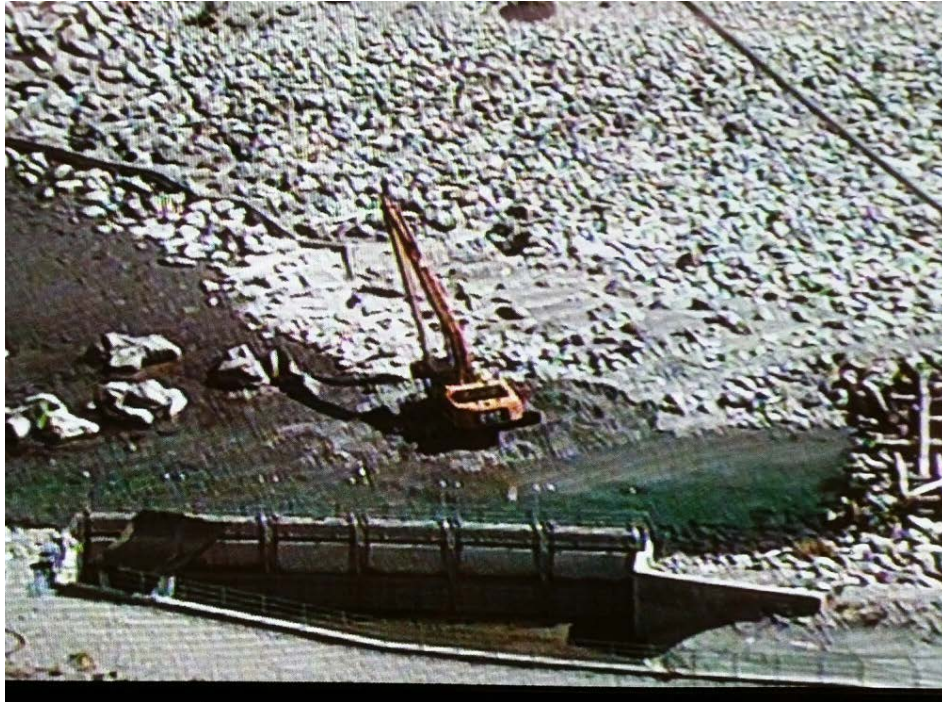
Habitat Channel July 2016



Upper Habitat Channel Excavation



Sediment Basin and Habitat Channel Upper Section Before and After Cleanout



Tailrace Before and After Sediment Removal



Results

- Approximately 1, 600 cubic yards removed from Sediment Basin and upper Habitat Channel above log structure
- Approximately 3,200 cubic yard removed from tailrace
- Sediment stockpiled for future Habitat Channel “seeding”
- Sediment removal completed in only 4 days
- Project completed ~ \$25,000

Summary

- The Habitat Channel is acting like a natural river
- Chinook salmon and steelhead spawning protected in Habitat Channel
- Gravel available to enhance Habitat Channel spawning habitat
- Compliance with terms and conditions of Lake Chelan License
- Maintaining the Habitat Channel, a valuable District asset
- Implementing District value of Environmental Stewardship