Klickitat Fishway

Project

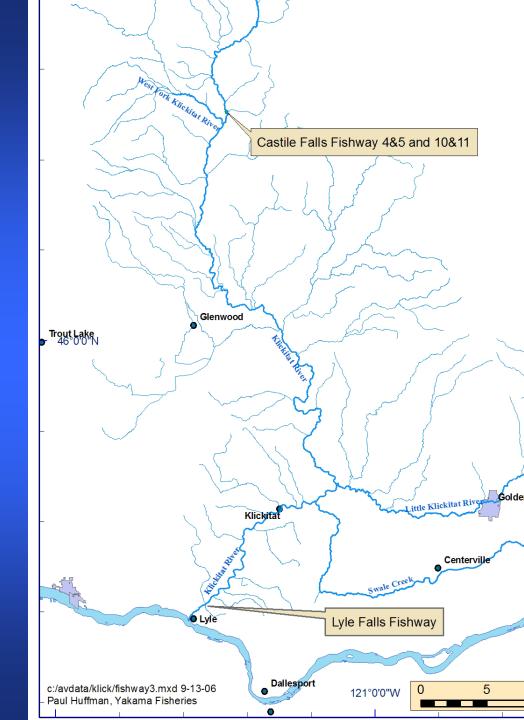
One Down,

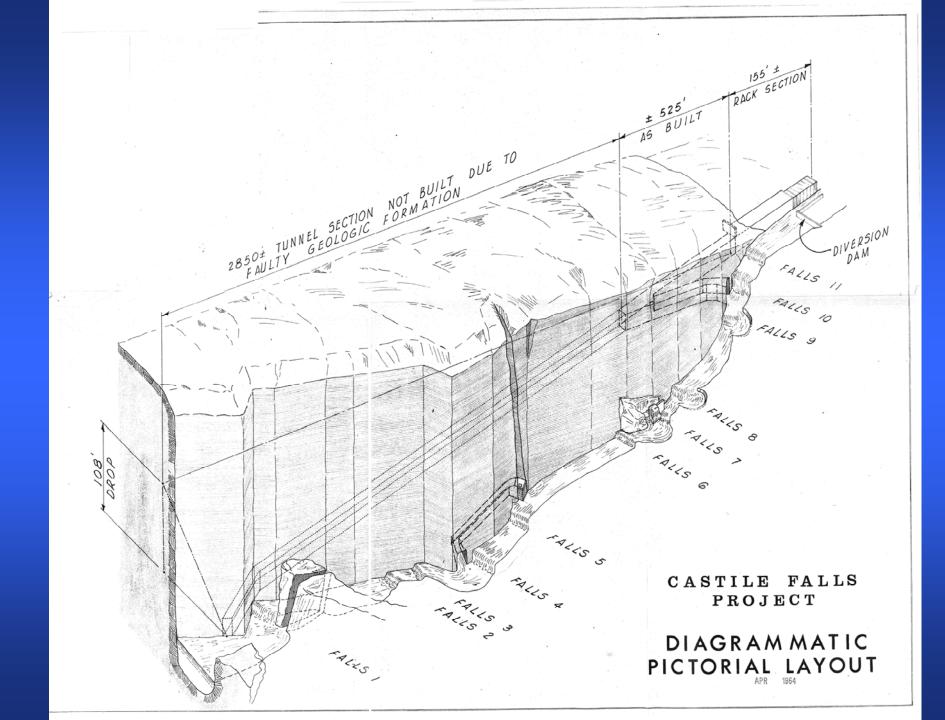
One to Go!

Bill Sharp

Yakama Nation Fisheries - YKFP







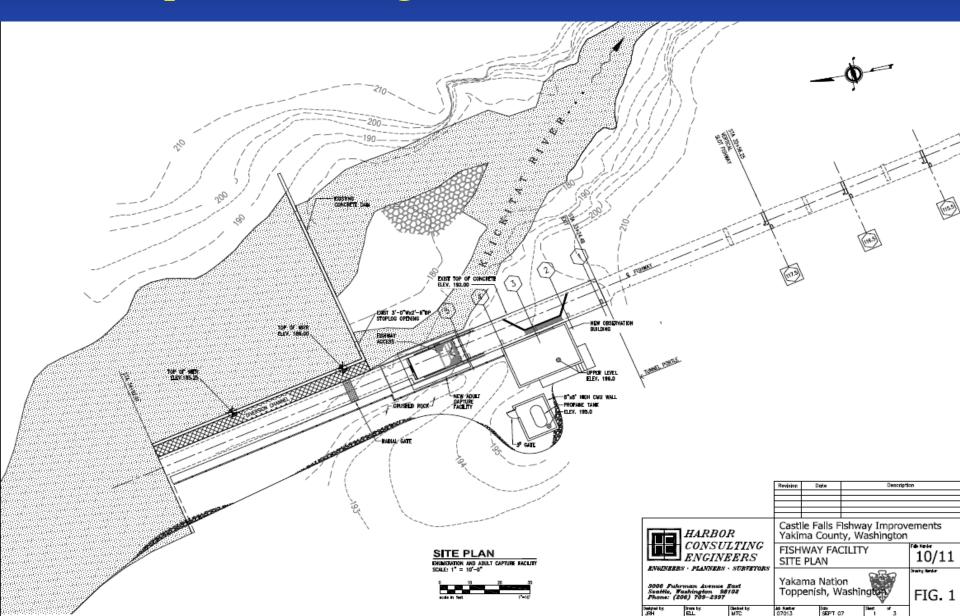


Castile Falls 10 Fishway Completed upgrades





Castile Falls 10 Fishway Proposed Counting Station





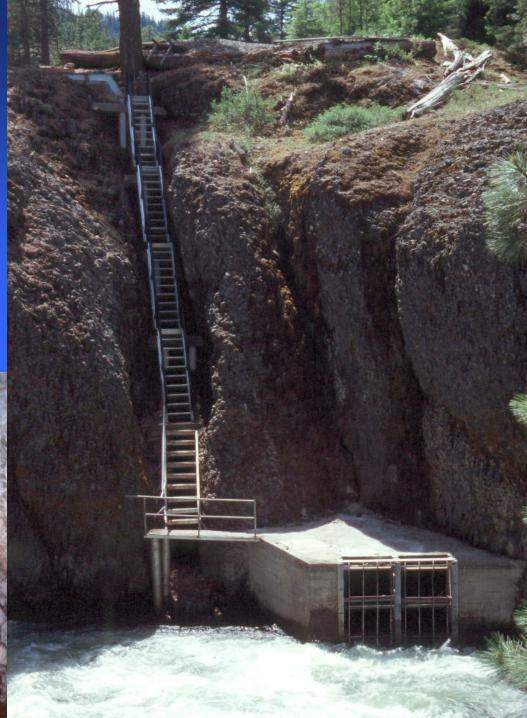


Castile Falls 4/5 Fishway
Safety Walkway

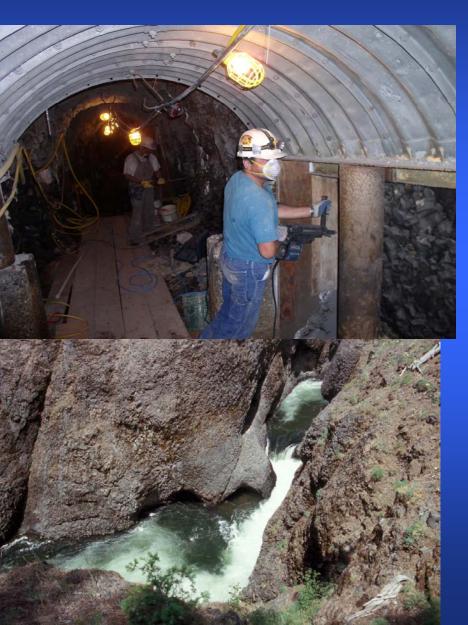
Castile Falls 4/5 Fishway

Challenging working conditions





Castile Falls 4/5 Fishway Completed Upgrades







Lyle Falls Fishway No.5

Lyle Fall Fishway Reconstruction

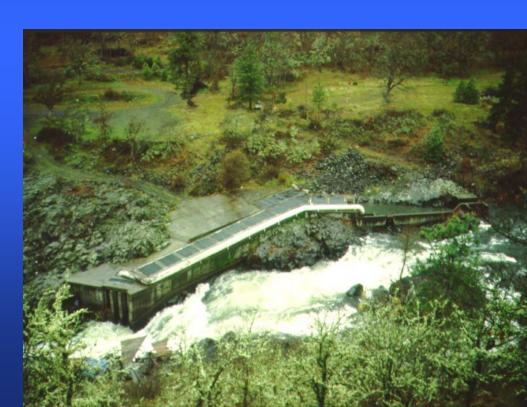
- Current Conditions
- Proposed Design & Benefits

Constructed 1952 – 1955

150-feet in length

13 vertical slot fishway

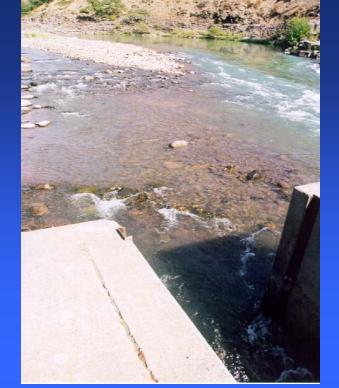
Falls height ~ 17 feet



Lyle Falls Fishway - Current Condition

- Poorly Positioned Fishway Entrance
- Inadequate Attraction Water Supply
- Over-energized Resting Pools
- Inadequate Low Flow Water Supply
- •Gravel-impacted Fishway Exit Channel







Maximum and Minimum Passage Flows at Lyle Falls over Three Migration Pathways:

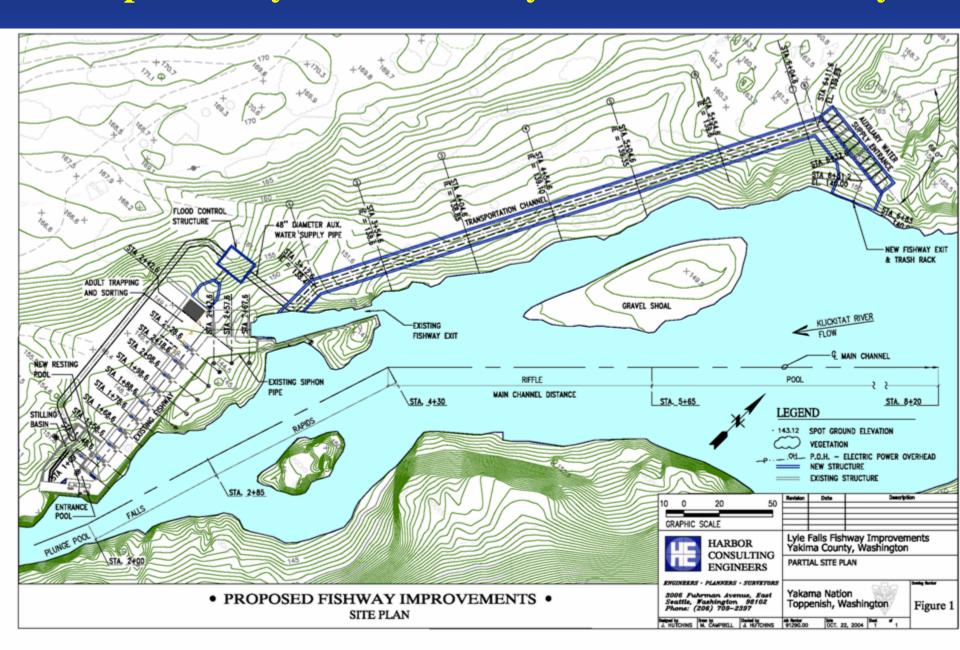
Jumping the Falls

Ascending the Existing Fishway

Ascending the Proposed Fishway

	Natural Falls	Existing Fishway	Proposed Fishway
Lower Flow Threshold (cfs)	1,000	900	500
Upper Flow Threshold (cfs)	5,000	2,000	5,000

Proposed - Lyle Falls Fishway & Collection Facility







2006 Fuhrman Ausma, Zart Seattle, Trackington 38102 Phone: (208) 709-2387 Lyle Falls Fishway Improvement

Sketch of Modified Fishway

Yakama Nation Toppenish, Washington

Project Benefits:

Design Fishway to meet Federal & State Passage Criteria

Effectively Monitor Klickitat Basin Escapement

Increased Passage of Klickitat Anadromous Stocks

Implement Hatchery Reform
Measures - proper broodstock
collection

