



## **Tillicum Cr. Fan Habitat Enhancement Project, 2018**

**Yakama Nation Upper Columbia Habitat Restoration Project, (Wenatchee Fisheries Office) & USFS Entiat Ranger District**

**Total Project Cost: 585K**

Where: Intersection of Mad River Road and FS Road 5800

When: July 9<sup>th</sup>-27<sup>th</sup>, 2018

Who: Pipkin Construction, with engineering and construction oversight by Interfluve

Project Goal:

- The primary goal of the project is to improve stream process and associated habitat within the area of the Tillicum Fan. Hydrologic connectivity will be enhanced between Tillicum Creek and its floodplain on the downstream edge of the alluvial fan, and between Mad River and its floodplain along the distal end of the alluvial fan.

Project Objectives:

- Connect Tillicum Cr. with its floodplain fan at a perennial frequency instead of high flow only.
- Create two fan swale inlets along Tillicum Creek utilizing gaps in the riparian canopy.
- Construct a bank-based engineered log structure for complexity and diversity.
- Excavate a relic high flow only channel parallel to Mad River.
- Construct a planting berm from excavated spoils along FS Rd. 5800, vegetate with native species.

Challenges:

- Pile driving depth of refusal much shallower than anticipated, large boulders obstructed many of the test locations.
- Finding places to place excavated boulders.
- Cougar Cr. fire halted revegetation activities.
- Rattlesnakes!!!

TILLICUM CREEK CONCEPTUAL RENDERING:  
ALTERNATIVE THREE

