

Boise Creek Restoration at City of Enumclaw Golf Course

April 18, 2022



Project Partners

- Russ Ladley Puyallup Tribe Fisheries
 - Developed 30% Design in ~2009
- Jeff Parsons Herrera Environmental Consultants
 - Final Design and Permitting (2020 CWM Grant)





Boise Creek - Upside

- Historically highly productive tributary to the White River in Enumclaw
 - Spring Chinook, Steelhead, Coho, Pink and Fall Chinook
 Salmon
- Hosts rare Spring Chinook run
 - Deemed Critical to Recovery of this ESA listed species



Boise Creek - Downside

- Very limited riparian cover/thermal protection
- Narrow channel, high velocities, limited woody debris
- Routinely overflows the banks
- Recent high flow events have seen an increase from 30 cfs to roughly 1000 cfs
 - Bed scour and standing of eggs/fish on the golf course
- Chappel Creek Fish Passage Barrier











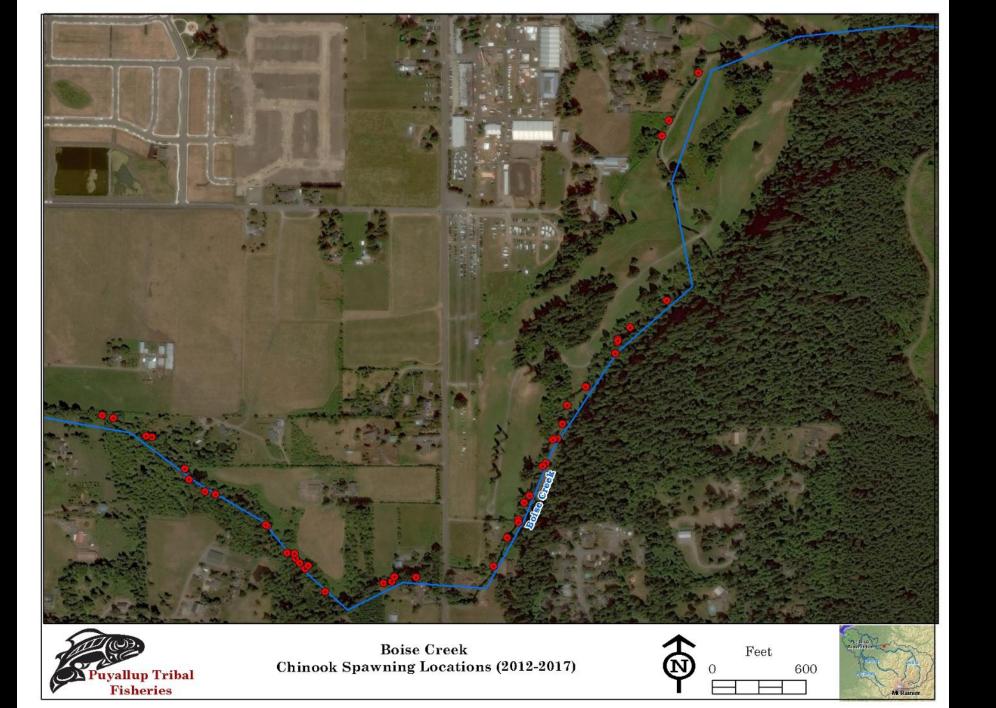


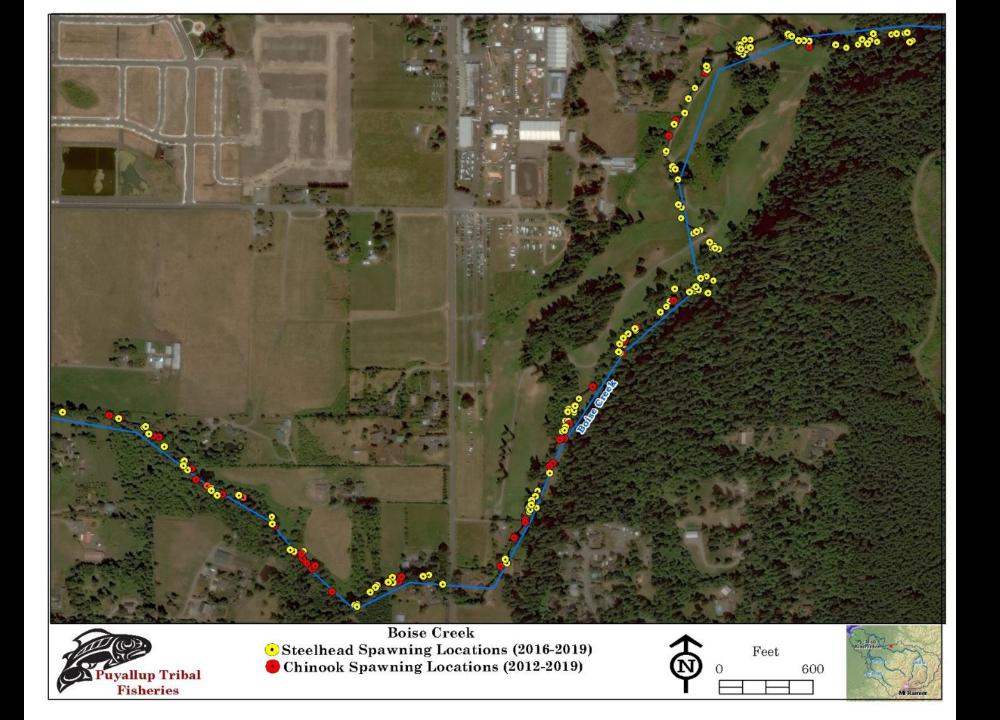




Existing **Chappel Springs** (tributary to Boise Creek) culvert inlet at the golf course.





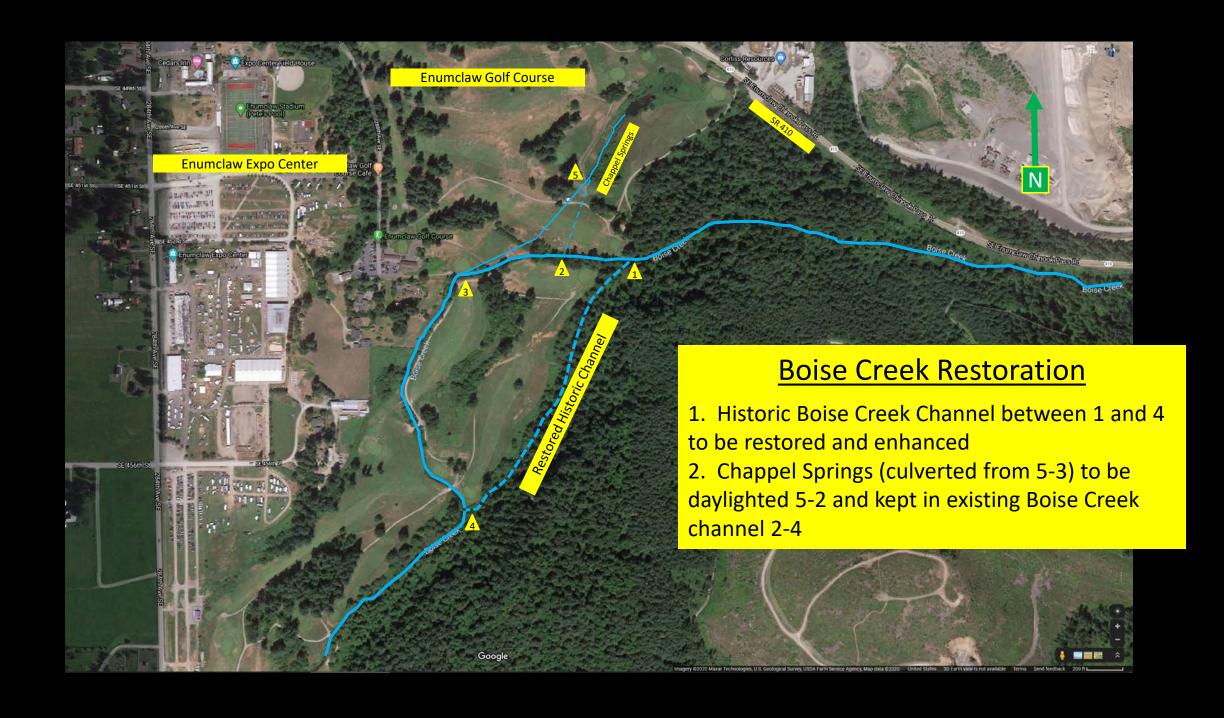


Proposed Solution

- Restore an historical channel of Boise Creek outside the golf course field of play
 - Located at the base of a mature forested hillside
 - Provide riparian plantings along the restored channel
 - Add instream woody habitat
 - Separate from course with earthen embankment
- Daylight and restore Chappel Creek in existing channel













Summary of Benefits

- Improved riparian habitat
- Improved spawning habitat
- Reduced water temperatures
- Daylighting and planting Chappel Creek
- Separating golf course activities and spawning salmon (particularly Chinook)





Current Status

- Design is >60% complete
- All permits acquired except USACE Individual Permit
- Cultural Resources Survey Completed
- The Hunt for Funding Continues
 - ~\$785,000 acquired (2021 CWM, 2021 FCG)
- Tentatively Planning Construction in 2023







Questions?

Eric Palmer

Project Manager