



Lake Limerick Management Feasibility Study



A BRIEFING FOR THE LAKE LIMERICK COUNTRY CLUB'S BOARD OF DIRECTORS
JULY 18, 2026

Project Goals

Identify options to manage lake levels in Lake Limerick that:

- Improve streamflow in Cranberry Creek during late summer, and
- Maintain community use of the lake.



2015 Bathymetry Survey by Tetra Tech

Project Funding and Team

Funded by:



Streamflow Restoration Program

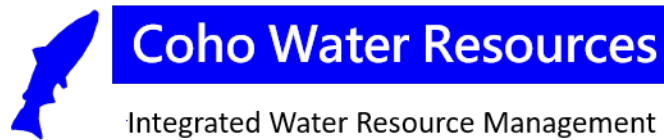
Project Team:



Squaxin Island Tribe (grant recipient)

Erica Marbet, Water Resources Biologist

Dept. of Natural Resources



Sherry Wilhelm, Project Manager

Chris Pitre, L.Hg. and CWRE, Technical Lead



Andy Sorter, P.E., Lead Engineer

Brian Combs, Habitat Specialist

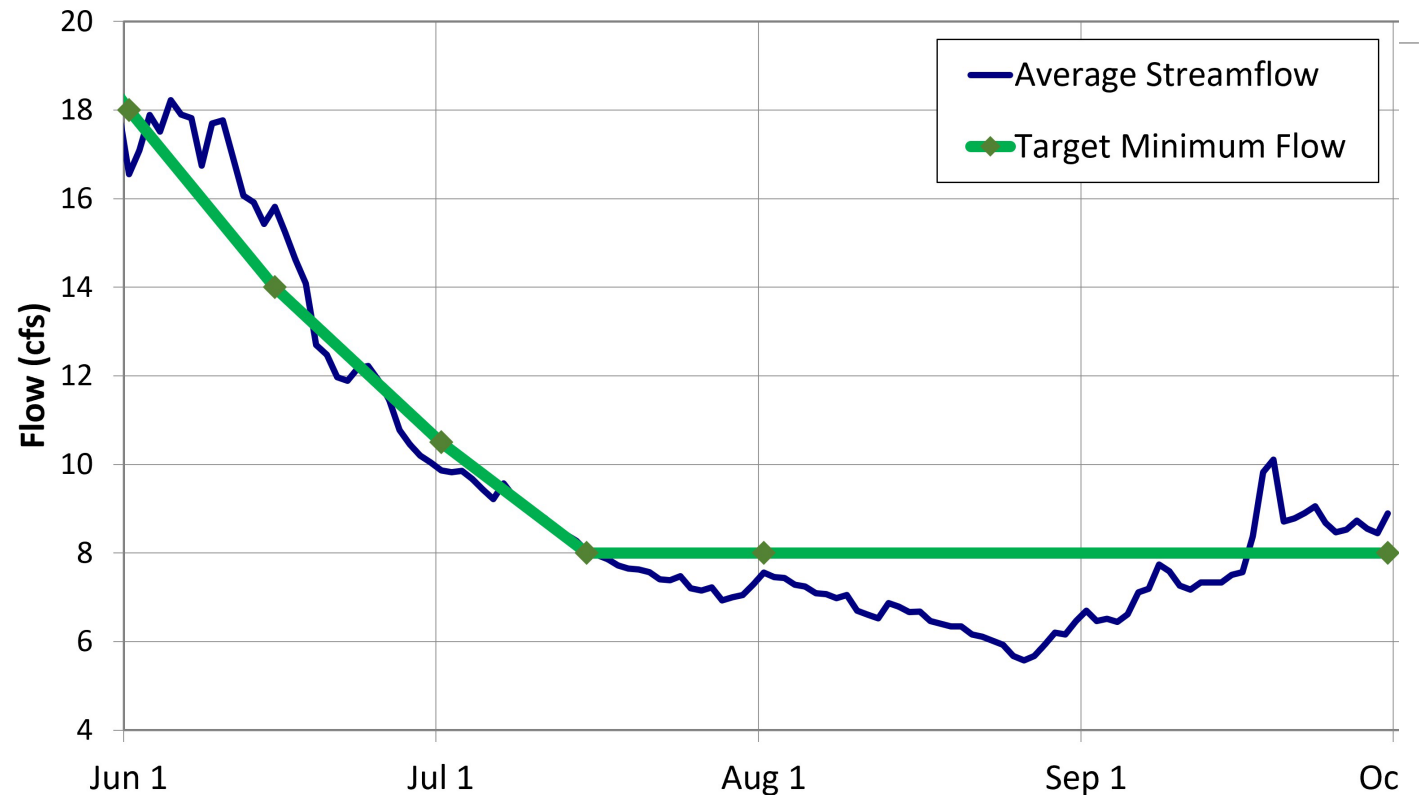
Salmon and Streamflow Concerns

The Cranberry-Limerick watershed provides habitat for salmon species, including coho, chum, and steelhead, as well as other aquatic species.

Summer streamflows often fall below the acceptable minimum instream flow defined by state regulations.

Water temperatures are often too high for fish health.

**Average Streamflow in Cranberry Creek at Hwy. 3
2006 - 2021**



Lake Releases Affect Streamflow



Releases from lake may supply more than half of streamflow at the mouth of the creek.

Streamflow at the creek mouth responds quickly to releases from the lake.

Better understanding of lake level dynamics and impacts on streamflow will:

- Improve tools for managing lake levels
- Improve streamflow.

Project Strategy

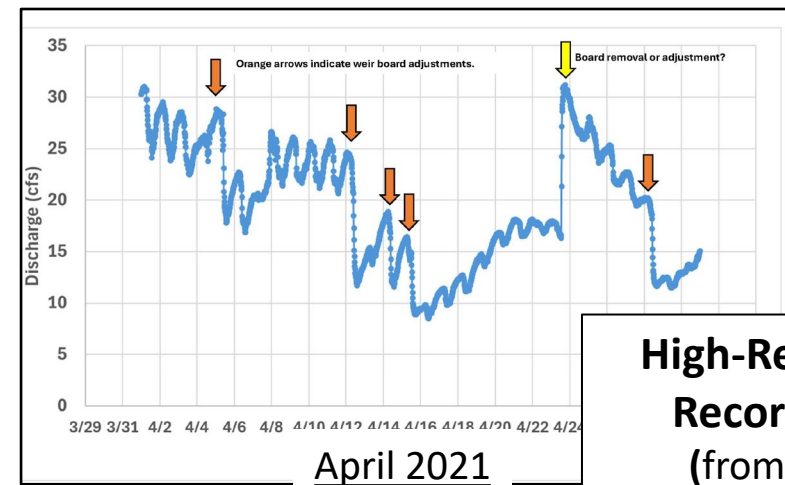
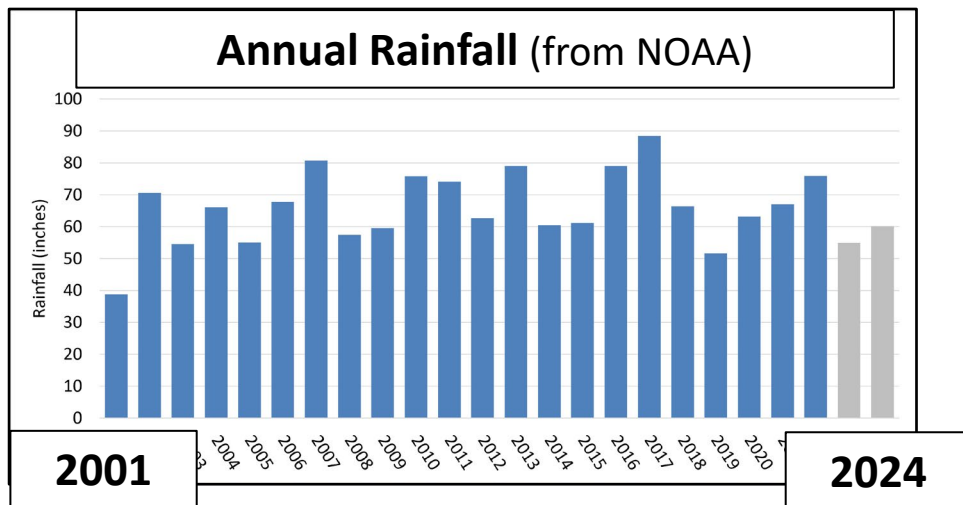
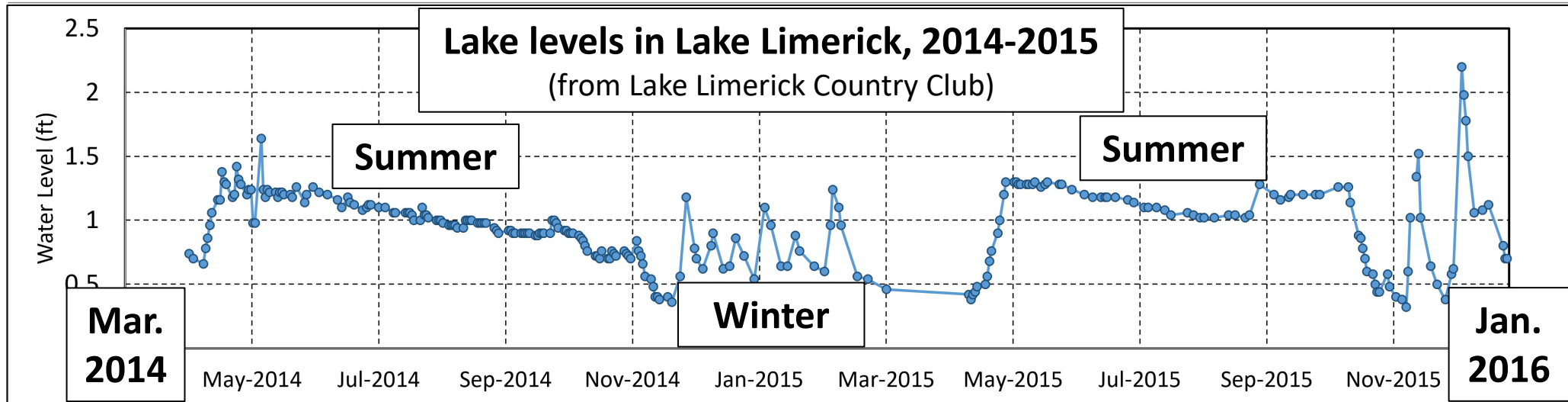
- Improve understanding of watershed and lake-stream relationships.
- Estimate amount of water available for improved management, aiming to work within existing lake level range.
- Evaluate engineering options for improved lake level management



Cranberry-Limerick Watershed



Synthesis of Existing Data (examples)



**High-Resolution Streamflow
Records, April 2006-2025**
(from Squaxin Island Tribe)

Engineering Evaluation of Limerick Dam

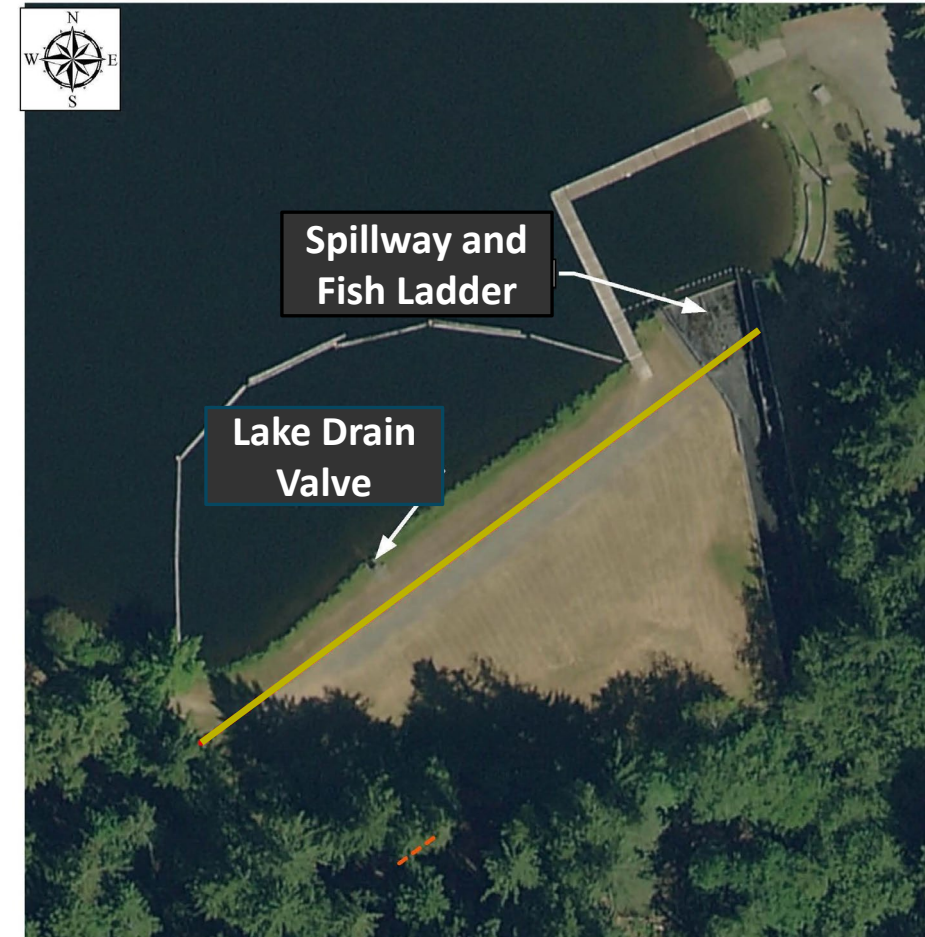
Lake level is now managed by manual placement and removal of boards across the spillway.

Flow in adjacent fish ladder is always maintained.

Possible modification: Use the lake drain to release cold water when critically needed.

Engineering Process:

- Consider several conceptual alternatives, such as automation and finer-scaled adjustments.
- Consult with stakeholders.
- Select a preferred option and prepare 30% design.



Aerial view of Limerick Dam, Ecology, 2025

Ongoing Connections with Lake Limerick Country Club



**We are committed to working closely with Lake Limerick throughout the project
Your participation now and in the future is voluntary.**

Current effort:

- Compiling existing understanding and data from committee chairs and staff.

Late summer/early fall 2026:

- Site visit and dam and dock survey
- Possible lake sampling

Winter 2026:

- Present engineering options and solicit input.

Summer 2027:

- Present results and discuss possible next steps.

Ongoing:

- Updates for Board of Directors and LDP Committee