



# REACH Kristoferson Lake

## Kristoferson Lake

### LAKE AREA

28 Acres

### SHORELINE LENGTH:

0.97 Miles

### REACH AREA:

43 Acres

### PSNERP PROCESS UNITS:

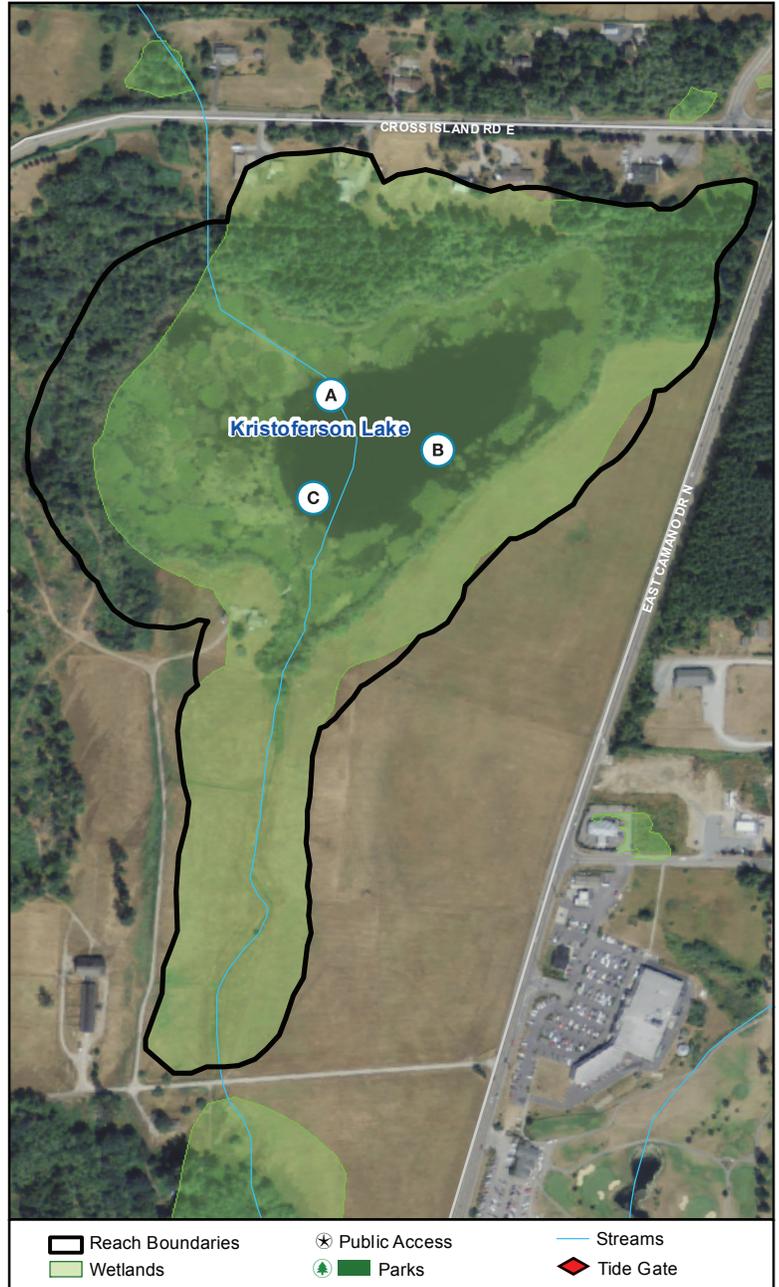
6047 & 6048

### REACH SUMMARY

Kristoferson Lake is located in the northern portion of Camano Island to the north of Triangle Cove. One stream (Kristoferson Creek) drains to the lake and continues south to Triangle Cove. A small dam at the south end of the lake controls outflow and the lake level.

Ecology has not monitored Kristoferson Lake as part of their monitoring program. Interpretation of aerial photography and the County wetland inventory suggests that significant lacustrine wetland areas exist within the lake and along the northern and eastern shorelines. Kristoferson Creek downstream from the lake is listed on Ecology's 303(d) list as a Category 5 water for dissolved oxygen, pH and fecal coliform. This suggests potential water quality issues within the lake, but this has not been confirmed. Aquatic vegetation covers a significant portion of the lake open water area. WDFW species use mapping includes wood duck habitat and the presence / migration of coastal cutthroat, Coho and fall chum. Salmonid usage extends upstream of the lake and along the outflow (Kristoferson Creek) south to Triangle Cove.

Existing land use along the south, east and west shorelines is agricultural. Through the agricultural areas, there is little riparian vegetation especially along south and east shorelines. Rural residential development exists along the north shoreline between the lake and East Cross Island Road; along this shoreline, more intact riparian vegetation is present. The only overwater structure on the lake is a dock on the south shoreline. There is no existing or potential (undeveloped) public access to the lake shoreline.



Shoreline Oblique Photos (© Microsoft Bing Maps, 2010)

**PHYSICAL CHARACTERIZATION**

<b>Mean Lake Depth</b> No Data	<b>Maximum Lake Depth</b> No Data	<b>Lake Volume</b> No Data
<b>Drainage Area</b> No Data	<b>Altitude Above Sea Level</b> 215 Ft	<b>Steep Slopes</b> None mapped

**HABITATS & SPECIES**

<b>Wetlands (Map 4)</b> 81%	<b>Wetlands Waterward of OHWM (Map 4)</b> 98%
<b>Shoreland Priority Habitats &amp; Species (Map 5)</b> Wood Duck	<b>Salmonid Fish Use (Map 5)</b> Coastal cutthroat, coho, fall chum in stream and through lake area; presence/migration for all.

**LAND & SHORELINE USE**

<b>Shoreline Modifications (Map 13)</b> Minimal modification (clearing of riparian vegetation along south shoreline for residence and agricultural uses).	<b>Zoning (Map 11)</b> Commercial Agriculture (58%); Rural Agriculture (30%); Rural (12%)
<b>Current Land Use (Map 12)</b> <b>Number of Parcels</b> 13 <b>Average Parcel Size</b> 12.31 Acres Existing land use is consistent with underlying zoning; agricultural uses along south, east, and west shorelines (little riparian vegetation especially along south and east shorelines) and rural residential along north shoreline (between lake and E Cross Island Rd, more intact riparian vegetation through wetland areas adjoining the shoreline).	<b>Public Access (Map 16)</b> No existing or potential (undeveloped) public access.
	<b>Overwater Structures (Map 14)</b> 1 private residential dock at south end of lake.

**Water Quality**

Kristoferson Creek (immediately downstream of lake to Triangle Cove) listed for Dissolved Oxygen, Fecal Coliform and pH (Cat. 5)

**KEY MANAGEMENT ISSUES**

- Assessment and improvement / maintenance of water quality in the context of surface water runoff and nutrient inputs from the contributing basin (focused on existing and new septic systems, removal of native vegetation and runoff from polluting generating sources).
- Managing for ongoing agricultural uses within the shoreline area and surrounding environment with additional emphasis on improving riparian shoreline habitat, associated wetland areas and the outflow stream through the shoreline area.
- Conservation of intact riparian vegetation and restoration of degraded shoreline areas with emphasis focused on improving habitat and conditions for salmonids using the Lone Lake system.
- Preservation and enhancement of native aquatic vegetation in the nearshore environment, with focus on control and eradication of invasive aquatic species.

**RESTORATION OPPORTUNITIES**

[Will be completed in next Draft.]