

**SHORELINE AREA (Reach Code): Lake Padden 4**

**REACH NUMBER: 55**

Land Use	Current Land Use	The reach is located in Lake Padden Park. Land use is low. The reach is dominated by mixed forest and public trails. (Ref# 8,37,71)
	Zoning	29.6 acres public, 23.75 acres water (Ref# 54,104)
Potential Species Present	Wildlife species	Documented nesting territory for Bald Eagle. Nearly 100% of the reach has an abundance of garter snakes and lizards present with denning habitat, a variety of non-urban mammals and birds present including habitat specific species, and a variety of native amphibians present. Movement is possible for all sizes of animals, including amphibians, throughout the entire reach. (Ref# 61,69,70,105)
	Fish species	Resident cutthroat and Kokanee in lake. Spawning habitat in east inlet tributary for kokanee.(Ref# 69,70,94,105)
	PHS species/habitat	Breeding/ rearing/ wintering habitat is present for use by multiple PHS or SC. Numerous wetlands are located within this reach (Ref# 24,92,93,105)
	TSE species	Bald eagle (FT) (Ref# 92,93,105)
	Invasive wildlife fish species	No data
Physical Environment	Acres of land in reach	53.2 acres total with 29.4 acres of land and 23.8 acres of water (Ref# 13)
	Aquatic vegetation	Common elodea, big-leaf pondweed, curly leaf pondweed, tapegrass (non-native), spatterdock, Chara. (Ref# 100)
	Slope	Slope class for the majority of the reach is 20 to 35% with small areas of 0 to 5%. Landslide Hazard Areas on slopes of 15-35% or greater are located throughout this reach. (Ref# 21)
	Buildings	No buildings (Ref# 16)
	Culverts/stormwater utilities	None identified (Ref# 30,40,41,42)
	Geology	27.8 acres of continental sedimentary deposits or rocks and 8.0 acres of continental glacial drift (Ref# 21,103)
	Tributary Creeks	Padden Creek (#30) at lake outlet and stream at eastern edge of reach. Several small, unmapped seasonal drainages from south side of lake. (Ref# 8,57,59,71)
	Wetlands	Ten small depressional wetlands are indicated throughout the reach, and the edge of a larger wetland complex is indicated at the southeastern extent of the reach. Lake fringe wetlands are indicated at the shoreline in the northern extent of the reach. (Ref# 11,52)
	Impervious surface	73% pervious, 27% semi-pervious, 0% impervious (Ref# 12)
	Invasive plant species	Reed canarygrass (inlet stream at east end) and Himalayan blackberry (Ref# 100)
	Roads/transportation	None (Ref# 14,35,36,44,45,46)
	Soils	Infiltration rates: 25.4 acres slow (Hydrologic soil Group C), 1.7 acres very slow with high runoff potential (Group D). Erosion potential: 26.1 acres severe risk, 19.4 acres slight risk, and 7.6 acres moderate risk. (Ref# 51,63)
	Topography	440' to 561' range; 470' mean. (Ref# 47)
	FEMA	24.3 acres in 100 year floodplain, none in floodway (Ref# 19)
	Terrestrial Vegetation	High vegetative cover Nearly 100% of the reach is a diverse multi-structured, mature native forest with emergent trees, and a high quality native plant community. (Ref# 8,20,71)
	Lacustrine Function	Alluvial fans
Aquatic substrate type		No data
In-water structures		One dock and the dam located at the outlet (Padden Creek). (Ref# 8,18,71)
Bulkheads		Concrete structure at outlet and near dock. (Ref#, 8,18,71)

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	DOE 303(d)	Category 5 Polluted waters listed for pentachlorophenol, Category 2 water of concern for temperature and pH (one excursion of each in 2001). (Ref# 89)
	Toxic sites/land fills	None indicated (Ref# 80)
	Invasive plant cover	No data
	Bathymetry	No data
Historic & Cultural	Historic aerials	No data
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	The entire reach is within a public park. (Ref# 33,34,36,48,54)
Function Analysis	<p><b>Reach Function</b></p> <ul style="list-style-type: none"> <li>Hydrologic</li> <li>Shoreline Vegetation</li> <li>Habitat</li> </ul> <p><b>Limiting Factors</b></p> <p><b>Functions</b></p> <ul style="list-style-type: none"> <li>Sustainable</li> <li>Not Sustainable</li> </ul> <p><b>Priority Action</b></p> <p><b>Current Enhancement Projects</b></p> <p><b>Preservation/Enhancement Opportunities</b></p>	<p>No indication of significant hydrologic impairment</p> <p>No indication of significant impairment.</p> <p>Slightly impaired due to park recreational development.</p> <p>Water quality (pentachlorophenol)</p> <p>Hydrology, shoreline vegetation and habitat</p> <p>None identified.</p> <p>None identified.</p> <p>None recorded for this reach.</p> <ul style="list-style-type: none"> <li>Relocation of park trails away from the shoreline.</li> <li>Control of invasive, non-native vegetation.</li> </ul> <p style="text-align: right;">(Ref# 24,61,69,70,71,89 for above)</p>