

SHORELINE AREA (Reach Code): Lake Padden 1
REACH NUMBER: 52

Land Use	Current Land Use	Majority of reach is located in Lake Padden Park and maintained as lawn or parking. Some residential areas exist on the edges. Upland development and land use are high. (Ref# 8,37,71)
	Zoning	11.3 acres water, 9.9 acres public, 2.2 acres residential (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 trout and kokanee in the lake. (Ref# 69,70,94,105)
	PHS species/habitat	Breeding/ rearing/ wintering habitat is present for use by multiple PHS or SC. Wetlands indicated along the shorelines. (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	23.4 acres total with 12.1 acres of land and 11.3 acres of water (Ref# 13)
	Aquatic vegetation	Common elodea, big-leaf pondweed, curly leaf pondweed, tapegrass (non-native), spatterdock, and Chara. (Ref# 100)
	Slope	Slope class for the majority of the reach is 0 to 5%, with small areas of 20 to 35%. (Ref# 21)
	Buildings	1 park building that covers 0.09 acres (Ref# 16)
	Culverts/stormwater utilities	Sanitary sewer present in the reach. No storm drains or culverts identified. (Ref# 39,40,41,42)
	Geology	Continental glacial drift (Ref# 21,103)
	Tributary Creeks	Streams # 28 & 29. (Ref# 8,57,59,71)
	Wetlands	Lake fringe wetlands are indicated at the shoreline. (Ref# 11,52)
	Impervious surface	50% pervious, 31% semi-pervious, 19% impervious (Ref# 12)
	Invasive plant species	Reed canary grass and Himalayan blackberry (Ref# 100)
	Roads/transportation	Major road: Samish Way. Secondary roads: Wilkin Street and small access roads in the park. Total of 0.5 miles or 0.9 acres of road. (Ref# 14,35,36,44,45,46)
	Soils	Infiltration rates: 10.3 acres moderate (Hydrologic soil Group B), 2.5 acres high with low runoff potential (Group A), 0.9 acres very slow with high runoff potential (Group D). Erosion potential: 13.7 acres of slight risk, 9.8 acres of severe risk. (Ref# 51,63)
	Topography	457' to 482' range; 460' mean. (Ref# 47)
	FEMA	11.4 acres in 100 year floodplain, none in floodway (Ref# 19)
	Terrestrial Vegetation	Vegetation cover is low. Areas of mature native forest with emergent trees, and a high quality native plant community are present. Approximately 40% of this reach is maintained as mowed lawn. (Ref# 8,20,71)
Lacustrine Function	Alluvial fans	None identified (Ref# 8,71)
	Aquatic substrate type	No data
	In-water structures	None identified (Ref# 8,18,71)
	Bulkheads	Concrete bulkhead along the parking area near the tennis courts. (Ref# 8,18,71)
	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)

SHORELINE AREA (Reach Code): Lake Padden 1

REACH NUMBER: 52

	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	Nearly the entire reach is located within public park with access to the shoreline. (Ref# 33,34,36,48,54)
Function Analysis	Reach Function	
	• Hydrologic	No indication of significant hydrologic impairment. Lake level controlled by outlet weir.
	• Shoreline Vegetation	Impaired by park lawn and active park recreation. Riparian vegetation present, but is restricted in size and diversity.
	• Habitat	Impaired due to park recreational development and reduced habitat structure.
	Limiting Factors	<ul style="list-style-type: none"> • Water quality (pentachlorophenol) • Habitat impairment – lack of structure and species diversity.
	Functions	Hydrology
	• Sustainable	Shoreline vegetation and habitat, under current land management.
• Not Sustainable	<ul style="list-style-type: none"> • Enhancement of shoreline vegetation in areas with low recreational use. 	
Priority Action	None recorded for this reach.	
Current Enhancement Projects		
Preservation/Enhancement Opportunities	<ul style="list-style-type: none"> • Relocation of park trails away from the shoreline. • Enhancement of shoreline vegetation in areas with low recreational use. • Control of invasive, non-native vegetation. 	

(Ref# 24,61,69,70,89 for above)