

SHORELINE AREA (Reach Code): LKWHATCOM 3

REACH NUMBER: 49

Land Use	Current Land Use	Mainly urban residential with 12.1 acres of open water. This reach is dominated by clustered multifamily housing. Most of the units are set back from the lake a greater distance than residential single family structures along the lake in this area. A large stretch of the southern portion this reach is undeveloped open space - upland and wetland. (Ref# 8,37,71)
	Zoning (acres)	23.4 acres residential multi-family, 1.8 acres residential single-family. (Ref# 54,104)
Potential Species Present	Wildlife species	In 45% of the reach: presence of garter snakes, lizards, urban and non-urban mammals; equal amounts of urban and non-urban birds; possible movement of large and medium animals; native amphibians possible. (Ref# 61,69,70,105)
	Fish species	Resident cutthroat trout and Kokanee (Ref# 69,70,94,105)
	PHS species/habitats	Wetland priority habitat at creek inlet (southern end of reach). Cutthroat trout spawning and rearing habitat in un-named creek. (Ref# 24,92,93,105)
	TSE species	Cutthroat trout (FCo) (Ref# 92,93,105)
	Invasive wildlife/fish species	Rainbow trout, lake trout, large and small mouth bass, yellow perch, brown bullhead, pumpkinseed. (Ref# 66,67)
Physical Environment	Acres of land in reach	37.4 total acres with 23.8 acres of land and 13.6 acres of water (Ref# 13)
	Aquatic vegetation	Basin 1: 26% submerged (littoral zone), 7% emergent. LWD is low to moderate. (Ref# 66,67)
	Slope	Slope class in the inlet area and point is 2-5%. Southern most portion of reach has a slope class of 20-35% and 35-50%. Condo area varies between 10-20% and 20-35%. (Ref# 21)
	Buildings	16 covering 1.48 acres total (Ref# 16)
	Culverts/Stormwater utilities	Four culverts in the reach. Four stormwater discharges – all at head of creek inlet. (Ref# 39,40,41,42)
	Geology	Continental sedimentary rock (Ref# 21,103)
	Tributary creeks	One un-named creek (Ref# 8,57,58,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	61% semi-pervious, 24% pervious, 14% impervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	Small portion of Flynn, a collector, is located adjacent to the wetland complex on the interior lake finger. Some parking areas in the multi family residential area. Total of 0.1 miles or 0.4 acres of roads. (Ref# 14,35,36,44,45,46)
	Soils	Soils have moderate filtration/runoff potential (Hydrologic soil Group B). (Ref# 51,63)
	Topography	311' to 345' range; 317' mean. (Ref# 47)
	FEMA	14.2 acres in 100 year floodplain, none in the floodway. Flooding is controlled by a dam at the outlet. (Ref# 19)
	Terrestrial Vegetation	The reach is dominated by residential mowed lawn in approximately half of the reach. The remainder of the reach is a mix of herbaceous, shrub, and tree vegetation. Four or five lots located along the southern most portion of the reach are dominated by mature coniferous trees. Some areas have an equal mix of native and naturalized non-native plants. Native plant community is of medium quality. Some regenerating thickets or mature patches are present. (Ref# 8,20,71)
Lacustrine Function	Alluvial fans	None indicated (Ref# 8,71)
	Aquatic substrate type	Basin 1: 19% mud, 25% sand, 37% gravel, 13% cobble, 6% bedrock. (Ref# 66,67)

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	In-water structures	3 Docks (Ref# 8,18,43,66,71)
	Bulkheads	Basin 1: 30% (bulkhead density may be less in this reach) (Ref# 8,18,66,71)
	DOE 303(d)	Category 5 Polluted Waters for mercury (near multi family dwellings south of park). Basin 1 Category 5 for dissolved oxygen. (Ref# 89)
	Toxic sites/land fills	None indicated (Ref# 80)
	Invasive plant cover	No data
	Bathymetry	Basin 1: max depth 20.25 meters (Ref# 66,67)
Historic & Cultural	Historic aerials	No data
	Archeological sites	None indicated (Ref# 77)
	Historic sites	None indicated (Ref# 77)
	Parks & public access	None indicated (Ref# 33,34,36,48,54)
Function Analysis	<p>Reach Function</p> <ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat <p>Limiting Factors</p> <p>Functions</p> <ul style="list-style-type: none"> Sustainable Not Sustainable <p>Priority Actions</p> <p>Current Enhancement Projects</p> <p>Preservation/Enhancement Opportunities</p>	<p>Impaired. The hydroperiod of the lake has been reversed, and the lake level is controlled through inputs from the diversion of water from the Nooksack River and via a control dam at the outlet (Whatcom Creek). Hydrology is flashy due to up-stream development.</p> <p>Impaired. Shoreline vegetation is limited.</p> <p>Impaired in developed areas, and slightly impaired in undeveloped.</p> <ul style="list-style-type: none"> Water quality Up-stream residential development Impaired shoreline vegetation and habitat <p>Habitat and shoreline vegetation in undeveloped areas</p> <p>Hydrology</p> <ul style="list-style-type: none"> Diversify plant species composition and structure on peninsula Preserve wetland complex, associated upland, and vegetated corridor to Electric Avenue Control invasive, non-native species Water quality improvement Stormwater treatment and detention <p>None recorded for the reach</p> <ul style="list-style-type: none"> Preserve wetland complex, associated upland, and vegetated corridor to Electric Avenue Encourage preservation/ enhancement of shoreline vegetation in developing areas Control invasive, non-native species <p>(Ref# 24,52,61,66,69,70,71,89,100 for above)</p>