

SHORELINE AREA (Reach Code): LKWHATCOM 4

REACH NUMBER: 50

Land Use	Current Land Use	Mainly urban residential with 15.3 acres of open water. The southern most portion of the reach is undeveloped and forested to the lake shore and is public property. (Ref# 8,37,71)
	Zoning (acres)	20.5 acres residential (Ref# 54,104)
Potential Species Present	Wildlife species	Animal/birds/reptiles/amphibians not present or unknown. Movement not possible without high risk. Exception to this is southern most extent of reach (Euclid Park): 20% presence and denning of garter snakes, lizards; large and medium non-urban mammals; predominately non-urban birds; possible movement of large and medium animals; native amphibians are possible. (Ref# 61,69,70,105)
	Fish species	Resident cutthroat trout and Kokanee (Ref# 69,70,94,105)
	PHS species/habitats	Southern most extent of reach, regular use for foraging by PHS and SC noted. (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	35.8 total acres with 18.3 acres of land and 17.5 acres of water (Ref# 13)
	Aquatic vegetation	Basin 1: 26% submerged (littoral zone), 7% emergent. LWD is low to moderate. (Ref# 66,67)
	Slope	The majority of the reach has a slope class of 20-35%, except for Euclid Park where the class is 0-5% along the lakeshore. (Ref# 21)
	Buildings	43 covering 1.41 acres total. (Ref# 16)
	Culverts/stormwater utilities	A few culverts are located in the reach. Sewer mains and stormwater discharges located in northern portion of reach in residential area. Info not available for UGA. (Ref# 39,40,41,42)
	Geology	Continental sedimentary rock (Ref# 21,103)
	Tributary creeks	One un-named creek, located at southern end of the reach (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	39% semi-pervious, 33% pervious, 28% impervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	Lake Whatcom Blvd is within entire SMA except for park property at southern end of reach. The Blvd is not a major arterial in this area. Total of 0.5 miles or 1.2 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 409' range; 321' mean. (Ref# 47)
	FEMA	17.6 acres in 100 year floodplain, none in floodway. Flooding is controlled by a dam at the outlet. (Ref# 19)
	Terrestrial Vegetation	Residential landscaping and lawn, except for park property which is forested. No plant diversity or quality plant communities except in Euclid Park where the plant diversity is multi-structured native habitat, high quality native plant community. Overstory is forest with mature component and emerging young trees. (Ref# 8,20,71)
Lacustrine Function	Alluvial fans	None indicated (Ref# 8,71)
	Aquatic substrate type	Basin 1: 37% gravel, 25% sand, 19% mud, 13% cobble, 6% bedrock. (Ref# 66,67)
	In-water structures	Basin 1: docks average 3 per 100 meters (Ref# 8,18,43,66,71)
	Bulkheads	Basin 1: 30% (Ref# 8,18,66,71)

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	DOE 303(d)	Upper reach Category 5 Polluted Waters for mercury. Lower reach Category 1 testing standards met for mercury. (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, although a large parcel at the southern end of the reach is owned by the city (Euclid Park). (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).</p> <p>Impaired. Shoreline vegetation is absent, except for in Euclid Park at the south end of the reach.</p> <p>Impaired. Habitat is limited, except for in Euclid Park at the south end of the reach.</p> <ul style="list-style-type: none"> Water quality Impaired shoreline vegetation and habitat in the majority of the SMA <p>Shoreline vegetation and habitat in the area of the Euclid Park</p> <p>All three functions are not sustainable in the majority of the SMA</p> <ul style="list-style-type: none"> Water quality improvement Stormwater treatment and detention <p>None recorded for the reach</p> <p>Restrict public access to the lake in the Euclid Park (Ref# 24,61,66,69,70,71,89 for above)</p>