SHORELINE AREA (Reach Code): LKWHATCOM 5			REACH NUMBER: 51
Land Use	Current Land Use		Mainly urban residential dominated by single family dwelling along the lake shore. The reach has 56.7 acres of open water. (Ref# 8,37,71)
	Zoning		63.8 acres residential (Ref# 54,104)
Potential Species Present	Wildlife species		Animal/birds/reptiles/amphibians not present or unknown. Movement not possible without high risk. (Ref# 61,69,70,105)
	Fish species		Resident cutthroat trout and Kokanee (Ref# 69,70,94,105)
	PHS species/habitats		None indicated (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		120.5 total acres with 54.3 acres of land and 66.2 acres of water. This reach is in Basins 1 & 2, with the majority of area in Basin 2. (Ref# 13)
	Aquatic vegetation		Basin 1: 26% submerged (littoral zone), 7% emergent. LWD is low to moderate. Basin 2: 23% submerged; 7% emergent. LWD is low. (Ref# 66,67)
	Slope		The majority of the reach has shallow to moderate slopes from 2-5%. Areas with 10-120% slopes are also present. (Ref# 21)
	Buildings		1235 covering 5.10 acres total (Ref# 16)
	Culverts/stormwater utilities		Few culverts are indicated, however seasonal creeks probably have culverts under the Blvd. Information in UGA is limited. (Ref# 39,40,41,42)
	Geology		Continental sedimentary rock (Ref# 51,63)
	Tributary Creeks		One un-named creek (#14) located at the southern end of reach, which is regulated by COB Wetland and Stream Ordinance. (Ref# 8,57,59,71)
	Wetlands		(Ref# 11,52)
	Impervious surface		48% semi-pervious, 41% impervious, 11% pervious (Ref# 12)
	Invasive plant species		No data
	Roads/transportation		Lake Whatcom Blvd within SMA for majority of reach. This is a major arterial road. Northern part of reach has a few local access roads. Total of 1.5 miles or 6.4 acres of roads. (Ref# 14,35,36,44,45,46)
	Soils		The northern half of the reach has moderate filtration/runoff potential soils (Hydrologic soil Group B). The soils in the lower half have high filtration and low runoff (Group A). (Ref# 51,63)
	Topography		311' to 382' range; 317' mean. (Ref# 47)
	FEMA		71.1 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. No real habitat or quality plant communities present. (Ref# 8,20,71)
Lacustrine Function	Alluvial fans		None indicated (Ref# 8,71)
	Aquatic substrate type		Basin 2: 27% bedrock, 26% gravel, 22% sand, 20% mud, 5% cobble– this part of the reach in Basin 2 is more characteristic of Basin 1. (Ref# 66,67)
	In-water structures		Basin 2: docks average 2 per 100 meters (Ref# 8,18,43,66,71)
	Bulkheads		Basin 1: 30% Basin2: 25% (Ref# 8,18,66,71)
	DOE 303(d)		Category 1 testing standards met for mercury (Ref# 89)
	Toxic sites/land fills		None indicated (Ref# 89)
	Invasive plant cover		No data
	Bathymetry		Basin 1: max depth 20.25 meters (Ref# 66,67)

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Historic & Cultural	Historic aerials		No data
	Archeological sites		None indicated (Ref# 77)
	Historic sites		None indicated (Ref# 77)
	Parks & public access		None and no publicly owned property in SMA (Ref# 33,34,36,48,54)
Function Analysis	**Reach Function**		
	• Hydrologic		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).
	• Shoreline Vegetation		Impaired. Shoreline vegetation is limited.
	• Habitat		Impaired. Habitat is limited.
	Limiting Factors		• Dense residential development • Water quality, particularly in Basin 1 • Limited shoreline vegetation and habitat
	Functions		
	• Sustainable		None
	• Not Sustainable		All three functions are non sustainable
	Priority Actions		• Water quality improvement, particularly in Basin • Stormwater treatment and detention
	C**urrent Enhancement Projects**		None recorded for this reach
	Preservation/Enhancement Opportunities		None (Ref# 24,61,66,69,70,71,89 for above)