

SHORELINE AREA (Reach Code): LKWHATCOM 2

REACH NUMBER: 48

Land Use	Current Land Use	Bloedel Donovan Park dominates this reach. The reach contains 8 acres of open water. (Ref# 8,37,71)
	Zoning	8.9 acres of public (Ref# 54,104)
Potential Species Present	Wildlife species	Bald eagles use trees near lake. In 40% 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	None indicated (Ref# 24,92,93,105)
	TSE species	Bald eagle (FT & ST) and 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	16.9 total acres with 7.4 acres of land and 9.5 acres of water (Ref# 13)
	Aquatic vegetation	Basin 1: 26% submerged (littoral zone), 7% emergent. LWD is low to moderate (Ref# 66,67)
	Slope	0-5% slopes dominate. (Ref# 21)
	Buildings	3 covering 0.03 acres total (in the park). (Ref# 16)
	Culverts/Stormwater utilities	Three culverts are located within the park. Two empty into the swim basin and one enters near the boat launch. Five detention facilities (0.05 acres). Sewer mains along Electric Ave. Storm drain lines in park; three storm discharges in reach (2 in park, 1 along Electric Ave). (Ref# 39,40,41,42)
	Geology	Glacial – continental sedimentary rock (Ref# 21,103)
	Tributary Creeks	None. The outflow of Lake Whatcom is located in this reach, which flows into Whatcom Lagoon and then Whatcom Creek. (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	58% semi-pervious, 32% impervious, 9% pervious (Ref# 12)
	Invasive plant species	Knotweed and giant hogweed indicated at Bloedel Donovan (Ref# 100)
	Roads/transportation	Public park has paved parking and paved boat launch along lake shore. Electric Ave, a major arterial is adjacent to the shoreline for about ¼ of the reach. Total of 0.6 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 324' range; 314' mean. (Ref# 47)
	FEMA	9.7 acres in 100 year floodplain, none in floodway. Flooding controlled by a dam at the outlet. (Ref# 19)
	Terrestrial Vegetation	Park vegetation is dominated by mowed grass with scattered trees and shrubs. 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. (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	Two docks at boat launch; old pilings. (Ref# 8,18,45,66,71)
	Bulkheads	Majority of park has a concrete wall bulkhead. (Ref# 8,18,66,71)
	DOE 303(d)	Category 5 Polluted Water for dissolved oxygen. Meets test standards for mercury. (Ref# 80)
	Toxic sites/land fills	None indicated (Ref# 77)

SHORELINE AREA (Reach Code): LKWHATCOM 2

REACH NUMBER: 48

	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	1.4 acres of land are public park. Open space: 0.7 acres as public community park and 0.7 acres as neighborhood park. (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. The majority of the SMA is maintained as grass up to the shoreline.
	• Habitat	Impaired. Areas of quality natural habitat are absent.
	Limiting Factors	<ul style="list-style-type: none"> • Water quality • Impaired shoreline vegetation and habitat
	Functions	None
	• Sustainable • Not Sustainable	All three functions are not sustainable.
Priority Actions	<ul style="list-style-type: none"> • Water quality improvement • Stormwater treatment and detention 	
Current Enhancement Projects	<ul style="list-style-type: none"> • A portion of the park has been designated as an off-leash area for dogs, which was intended to help control the population of Canada Geese that utilize the park. • No additional projects are recorded for the reach. 	
Preservation/Enhancement Opportunities	<ul style="list-style-type: none"> • Preservation/ enhancement of the wetland south of the boat launch • Enhancement of vegetation corridor along the park boundary to Electric Avenue 	

(Ref# 24,61,66,69,70,71,89 for above)