

**SHORELINE AREA (Reach Code): WHATCOM 9**

**REACH NUMBER: 20**

Land Use	Current Land Use	Majority of the reach is in a public park. The east side of the reach is dominated by dwellings. (Ref# 8,37,71)
	Zoning	20.6 acres public, 3.9 acres single family residential, 2.3 acres multi-family residential (Ref# 54,104)
Potential Species Present	Wildlife species	In 80% of the reach: presence of a variety of non-urban mammals present, including habitat specific species; a variety of non-urban birds dominate, including habitat specific species, a variety of native amphibians, and an abundance of garter snakes and lizards and denning habitat. Movement is possible for all animals including amphibians. Bald eagles have nested in the black cottonwood trees in this reach. (Ref# 61,69,70,105)
	Fish species	Resident cutthroat trout and Kokanee (Ref# 69,70,94,105)
	PHS species/habitat	Wetland priority habitat – east side of reach, including Scudder Pond. 80% of the reach has habitat for breeding/rearing/wintering use by multiple PHS or SC. (Ref# 24,92,93,105)
	TSE species	Cutthroat trout (FCo) and Bald eagles (FT). (Ref# 92,93,105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	26.8 acres total with 16.7 acres of land and 10.0 acres of water (Ref# 13)
	Aquatic vegetation	No data
	Slope	Dam at lower end of reach has caused creek to form a lagoon area. Slopes are gentle, slope classes 2-5% and 5-10%. Some steepness (20-35%) occurs at the lower extent of reach. (Ref# 21)
	Buildings	15 covering 0.68 acres total (Ref# 16)
	Culverts/stormwater utilities	Four culverts – all associated with Scudder Pond and four stormwater discharge points – all associated with Scudder Pond. Sewer main along Electric Ave. (Ref# 39,40,41,42)
	Geology	Continental sedimentary rock (Ref# 21,103)
	Tributary creeks	None indicated (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	46% pervious, 38% semi-pervious, 17% impervious (Ref# 12)
	Invasive plant species	Potential species include: Eurasian water milfoil, yellow flag iris, knotweed, reed canary grass, hairy willow herb, bittersweet nightshade, Traveler's Joy. (Ref# 100)
	Roads/transportation	Electric Ave, a major arterial is located along the upper terminus of the reach. A gravel foot path is located on the west side of the creek in the northern portion of the reach. Total of 0.2 acres or 0.5 acres of roads. (Ref# 14,35,36,44,45,46)
	Soils	Soils are moderate filtration/runoff potential (Hydrologic soil Group B). The northwest corner of the lagoon is mapped as hydric soils. (Ref# 51,63)
	Topography	310' to 338' range; 316' mean. (Ref# 47)
	FEMA	13.5 acres in 100 year floodplain, none in the floodway (Ref# 19)
	Terrestrial Vegetation	Outside of the residential area, the vegetation is dominated by mixed coniferous/deciduous forest, shrub wetland, and open water with emergent vegetation. Majority of reach is dominated by a diverse multi-structured native habitat of high quality. Overstory is mature native forest with emergent trees. (Ref# 8,20,71)
Riparian Function	DOE 303(d)	Category 5 Polluted Waters listed for dissolved oxygen, fecal coliform, and temperature. Category 4 Impaired waters for non-point pollution and invasive species (Eurasian water milfoil). Category 2 Water of Concern for pH and bio-assessment (biological degradation based in invertebrates). TDML for fecal coliform. (Ref# 56,85,89)
	Channel confinement	Lower to upper: unconfined; moderately confined; unconfined (Ref# 22,23)

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	Channel gradient	<1% (Ref# 22,23)
	Channel migration zone	No data
	Creosote structures	No data
	Fish passage blockages	Dam located at lower terminus (Ref# 15,94)
	In-water structures	Dam located at lower terminus, bridge at upper terminus (Electric Ave) (Ref# 8,18,43,71)
	LWD presence	Incomplete data
	Non-point source pollution	Category 4 Impaired waters for non-point pollution (Ref# 89)
	Point source pollution	No data
	Riffle/pool analysis	No data
	Aquatic substrate type	No data
	Toxic sites/land fills	None indicated (Ref# 80)
Historic & Cultural	Historic aerials	No data
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	4.6 acres of open space. Area located in Whatcom Falls Park area. Includes some foot trails. (Ref# 33,34,36,48,54)
Function Analysis	<p><b>Reach Function</b></p> <ul style="list-style-type: none"> <li>Hydrologic</li> <li>Shoreline Vegetation</li> <li>Habitat</li> </ul> <p><b>Limiting Factors</b></p> <ul style="list-style-type: none"> <li>Water quality</li> <li>Residential development</li> <li>Electric Avenue is a barrier to wildlife movement</li> </ul> <p><b>Functions</b></p> <ul style="list-style-type: none"> <li>Sustainable</li> <li>Not Sustainable</li> </ul> <p><b>Priority Actions</b></p> <ul style="list-style-type: none"> <li>Retain existing buffer distances</li> <li>Stormwater treatment and detention</li> <li>Water quality improvement</li> </ul> <p><b>Current Enhancement Projects</b></p> <p>None are recorded for this reach</p> <p><b>Preservation/Enhancement Opportunities</b></p> <ul style="list-style-type: none"> <li>Control of invasive, non-native species</li> <li>Retain existing habitat, and encourage enhancement of shoreline vegetation and habitat in residential areas.</li> </ul>	<p>Altered by a control dam at the outfall of the lake</p> <p>Slightly impaired. Some invasive, non-native species are present.</p> <p>Moderately impaired. Increased residential development.</p> <p>All functions are sustainable with some improvements</p> <p>None. Hydrology- most likely can not be sustained beyond current condition.</p> <p>(Ref# 24,61,69,70,71,89,100 for above)</p>