

SHORELINE AREA (Reach Code): WHATCOM 5

REACH NUMBER: 16

Land Use	Current Land Use	Light industrial on the north side of the reach (mainly car dealerships). Some light industrial and residential multi on the south side of the reach. A large portion of undeveloped open space is located along the central portion of the reach, most of which is south of the creek. Most of this open space is publicly owned. Much of this area to the south is wetland associated with Whatcom and Cemetery Creeks. (Ref# 8,37,71)
	Zoning	29.8 acres industrial, 18.1 acres residential multi-family, 15.3 acres public (Ref# 54,104)
Potential Species Present	Wildlife species	In 75% of the reach presence of urban and some non-urban mammals; a variety of predominantly non-urban birds, native amphibians, and snakes and lizards and denning habitat. 75% of the reach offers the possibility of large and medium animal movement. (Ref# 61,69,70,105)
	Fish species	Bull trout, Chinook, Coho, Chum, Sea-run Cutthroat, Pink, Sockeye, Steelhead (Ref# 69,70,94,105)
	PHS species/habitat	75% of the reach has habitat for breeding/rearing/wintering use by multiple PHS or SC. (Ref# 24,92,93,105)
	TSE species	Bull trout (FT), Chinook (FT & SC), Coho (FCo), and Cutthroat (FCo). (Ref# 92,93,105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	63.2 acres total with 61.5 acres of land and 1.7 acres of water (Ref# 13)
	Aquatic vegetation	No data
	Slope	The reach is dominated by fairly flat topography, slope class of 2-5%. The upper portion of the reach has a more defined channel with a slope class along the creek of 20-35%, with narrow areas of this slope class seen throughout the reach. (Ref# 21)
	Buildings	25 covering 2.92 acres total (Ref# 16)
	Culverts/stormwater utilities	Four culverts. Three detention facilities (0.20 ac). Five stormwater discharge points along creek, several more in the wetland area south of the creek. Sewer mains along Woburn Street and arterials south of creek (near housing developments). Storm drain lines throughout upper reach. (Ref# 39,40,41,42)
	Geology	Glaciomarine drift. A small area of Seismic Hazard Area (geologic units) in the southern extent of the reach. (Ref# 21,103)
	Tributary creeks	One located at the lower end of the reach (Cemetery Creek #19-21), which is regulated under the COB Wetland and Stream Ordinance. (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	51% pervious, 25% semi-pervious, 23% impervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	One major arterial at upper terminus of reach (Woburn), one collector (just south of Woburn). Both roads cross reach (perpendicular). Total of 1.0 miles or 2.8 acres of roads. (Ref# 14,35,36,44,45,46)
	Soils	Hydric soils, very low filtration with high potential for runoff (Hydrologic soil Group D). Small area in the southwest corner of the reach has moderate filtration/runoff soils (Group B). (Ref# 51,63)
	Topography	58' to 95' range; 71' mean. (Ref# 47)
	FEMA	16.7 acres in 100 year floodplain, 2.9 acres in the floodway (Ref# 19)
	Terrestrial Vegetation	Approximately one-third of the reach is vegetated with forest. Approx 75% of the reach is predominately native vegetation of high quality, with some mature forest and emerging young trees (includes wetland complex south of creek). (Ref# 8,20,71)
Rip area	DOE 303(d)	Category 5 Polluted Waters listed for dissolved oxygen, fecal coliform, and temperature. Category 2 Water of Concern for pH and pentachlorophenol. TDML

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		for fecal coliform. (Ref# 56,85,89)
	Channel confinement	Unconfined (Ref# 22,23)
	Channel gradient	Lower: <1%; Upper: 2-4% (Ref# 22,23)
	Channel migration zone	No data
	Creosote structures	No data
	Fish passage blockages	No data
	In-water structures	Two bridges, in water structure unknown (Ref# 8,18,43,71)
	LWD presence	Incomplete data
	Non-point source pollution	No data
	Point source pollution	No data
	Riffle/pool analysis	No data
	Aquatic substrate type	No data
	Toxic sites/land fills	Just outside of SMA: Coca Cola Bottling, 2101 Woburn St – petroleum products (Ref# 80)
Historic & Cultural	Historic aerials	No data
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	17.8 acres of open space (Ref# 33,34,36,48,54)
Function Analysis	Reach Function	
	<ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat 	<p>Impaired. Hydrology is flashy.</p> <p>Slightly impaired. Shoreline vegetation is present along the majority of this reach, but structural diversity is low.</p> <p>Not impaired. Good connectivity to Cemetery Creek habitat.</p>
	Limiting Factors	<ul style="list-style-type: none"> Water quality Up-stream development Hydrology
	Functions	<ul style="list-style-type: none"> Sustainable Not Sustainable
	Priority Actions	<ul style="list-style-type: none"> Habitat preservation of the wetland complex south of the creek and in the Cemetery Creek corridor. Water quality improvement Stormwater treatment and detention
	Current Enhancement Projects	Five projects have taken place to restore the shoreline and riparian vegetation. Restoration has taken place along both sides of the creek and cover the entire length of this reach.
Preservation/Enhancement Opportunities	<ul style="list-style-type: none"> Preservation of the wetlands in Cemetery Creek watershed Preservation of vegetation buffers north of the creek <p>(Ref# 24,49,50,61,69,70,71,89 for above)</p>	