

SHORELINE AREA (Reach Code): Chuckanut 1		REACH NUMBER: 23
Land Use	Current Land Use	Predominately residential. A small area of undeveloped City of Bellingham Park property is located in the southeast corner of the reach. (Ref# 8,37,71)
	Zoning	10.8 acres residential; 0.8 acres public (Ref# 54,104)
Potential Species Present	Wildlife species	None indicated (Ref# 61,69,70,105)
	Fish species	Coho, Chum, Bull trout (presumed), Sea-run Cutthroat, Steelhead (Ref# 69,70,94,105)
	PHS species/habitat	Riparian habitat, anadromous fish species (Ref# 24,92,93,105)
	TSE species	Bull trout (presumed) (FT), Puget Sound Coho (FCo), Cutthroat (FCo). (Ref# 92,93,105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	11.5 total acres with 11.1 acres of land and 0.4 acres of water (Ref# 13)
	Aquatic vegetation	In marine influence 0.1 acres has mixed algae beds.(Ref# 27)
	Slope	Slope class 0-5% dominates, with small areas of 20-35% slopes. (Ref# 21)
	Buildings	27 buildings with 0.42 acres of total coverage. Single family homes present in low density. (Ref# 16)
	Culverts/stormwater utilities	1 stream crossing with culvert under Rainier Street. 124 feet indicated in spreadsheet. No detention facilities. (Ref# 39,40,41,42)
	Geology	Alluvium. Land Slide Hazard Area on slopes 15-35% or greater. (Ref# 21,103)
	Tributary Creeks	None indicated (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	54% pervious; 28% semi-pervious; 18% impervious surface (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	2 small secondary roads (Rainier and 18 th streets). Total of 0.2 miles or 0.6 acres of roads. (Ref# 14,35,36,44,45,46)
	Soils	Infiltration rates: 8.1 acres slow (Hydrologic soil Group C), and 3.4 acres moderate (Group B). Erosion potential: 10.9 acres slight risk and 0.6 acres moderate risk. (Ref# 51,63)
	Topography	11' to 79' range; 25' mean. (Ref# 47)
	FEMA	1.2 acres in 100 year floodplain. None in the floodway. (Ref# 19)
	Terrestrial Vegetation	Mixed forest and shrub interspersed with lawns and ornamental plantings. Immediate forested riparian cover appears to average 50 feet on both sides of channel. (Ref# 8,20,71)
Riparian Function	DOE 303(d)	Listed Category 5 for fecal coliform and dissolved oxygen. Category 4 for fish habitat (low flow limiting access), Category 2 for pH and temperature (limited excursions from standards). (Ref# 89)
	Channel confinement	Unconfined (Ref# 22,23)
	Channel gradient	1-2% (Ref# 22,23)
	Channel migration zone	None identified (Ref# 22,23,94)
	Creosote structures	No data
	Fish passage blockages	None identified (Ref# 15,94)
	In-water structures	None identified (Ref# 8,18,43,71)
	LWD presence	Indicated as poor through most of this reach (Ref# 8,10,71)
	Non-point source pollution	No data
	Point source pollution	No data
Riffle/pool analysis	No data	

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	Substrate type	No data
	Toxic sites/land fills	None indicated (Ref# 80)
Historic & Cultural	Historic aerials	Tim Wahl has an archive that may include this area.
	Archeological sites	In vicinity (Ref# 77)
	Historic sites	None indicated (Ref# 77)
	Parks & public access	City of Bellingham parks property at southeast edge of reach. This area has no formal access to date. (Ref# 33,34,36,48,54)
Function Analysis	Reach Function	
	• Hydrologic	No indication of significant hydrologic impairment.
	• Shoreline Vegetation	Slightly impaired. Riparian vegetation present, but is restricted in width and diversity.
	• Habitat	No indication of significant impairment. Important wildlife corridor; good connectivity to upstream and marine habitat. Functions as migration and rearing habitat for salmonids and winter waterfowl in the lower portion.
	Limiting Factors	<ul style="list-style-type: none"> • Water quality (Fecal coliform and dissolved oxygen) • In-stream structures limited (NES staff observations)
	Functions	
	• Sustainable	All functions appear sustainable.
• Not Sustainable	None identified.	
Priority Actions	<ul style="list-style-type: none"> • Repair or replace failing septic systems and/or connect to City sewer. • Increasing riparian buffer widths. 	
Current Enhancement Projects	None indicated for the reach	
Preservation/Enhancement Opportunities	Preservation of existing riparian vegetation cover and wetlands in the drainage. (Ref # 24,61,69,70,71,84 for above)	