

SHORELINE AREA (Reach Code):Chuckanut 2

REACH NUMBER: 24

Land Use	Current Land Use	Predominately undeveloped forest with public access on the east side of Chuckanut Drive via a City trail system. Several new houses are being constructed in the northwest corner of the reach, near the Chuckanut Gallery. (Ref# 8,37,71)
	Zoning	16.2 acres public, 3.8 acres residential (Ref# 54,104)
Potential Species Present	Wildlife species	No data for unique wildlife species (Ref# 61,69,70,105)
	Fish species	Migration, rearing and spawning for Chum, Sea-run Cutthroat. Migration and rearing for steelhead. Presumed presence of Bull trout. (Ref# 69,70,94,105)
	PHS species/habitat	Riparian habitat. (Ref# 24,92,93,105)
	TSE species	Puget Sound Coho (FCo) and Cutthroat (FCo). Bull trout (FT) presumed. (Ref# 92,93,105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	20 acres total with 19.2 acres of land and 0.8 acres water (Ref# 13)
	Aquatic vegetation	No data
	Slope	20-35% slopes dominate ravine sides, areas of 0-10% slopes also present. (Ref# 21)
	Buildings	1 building covering 0.04 acres. New construction of three single family homes.(Ref# 16)
	Culverts/stormwater utilities	Box culvert under Chuckanut – 35' long. No detention facilities. (Ref# 39,40,41,42)
	Geology	Continental sedimentary deposits and alluvium. Land Slide Hazard Area on slopes 15-35% or greater. (Ref# 21,103)
	Tributary Creeks	Two tributaries one entering northwest (Stream #38) of Chuckanut and one southeast (#39) of Chuckanut. (Ref# 8,57,59,71)
	Wetlands	(Ref# 11,52)
	Impervious surface	82% pervious, 12% semi-pervious, 6% impervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	Chuckanut Drive crosses the western edge of the reach. Interurban trail. (Ref# 14,35,36,44,45,46)
	Soils	Infiltration rates: 11.0 acres high with low runoff potential (Hydrologic soil Group A), 9.0 acres moderate (Group B). Erosion potential: 11.1 acres slight risk, 8.9 acres moderate risk. (Ref# 51,63)
	Topography	19' to 217' range; 72' mean.(Ref# 47)
	FEMA	No floodplain or floodway in the reach. (Ref# 19)
Terrestrial Vegetation	Dominated by mixed deciduous/coniferous forest with an average forested riparian width of greater than 200 feet on both sides of stream channel. (Ref# 8,20,71)	
Riparian Function	DOE 303(d)	Category 5 for fecal coliform and dissolved oxygen; Category 4 reports inadequate stream flow is a factor limiting salmonid uses. Category 2 City of Bellingham unpublished data from station COB-CHU2 (Chuckanut Creek at Mouth) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from temperature measurements collected in 1997 and 1998. City of Bellingham unpublished data from station COB-CHU2 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows 1 excursion beyond the criterion from 100 measurements for pH collected in 1990-2001. (Ref# 89)
	Channel confinement	Naturally confined (Ref# 22,23)
	Channel gradient	2 to 4% (Ref# 22,23)
	Channel width	Channel width less than 5 feet wide with perennial flow with fish presence.(Ref# 22,23)
	Channel migration zone	None identified (Ref# 22,23,94)

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	Creosote structures	No data
	Fish passage blockages	None identified (Ref# 15,94)
	In-water structures	None/ bridge crosses creek as part of trail system (Ref# 8,18,4,71)
	LWD presence	No data
	Non-point source pollution	No data
	Point source pollution	No data
	Riffle/pool analysis	No data
	Substrate type	36% cobble; 33% coarse gravel; 17% fine gravel; 8% boulders; 6% fine gravel; data collected at Arroyo park (Ref# 86)
	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	Majority of reach located in Arroyo Park (Ref# 33,34,36,48,54)
Function Analysis	Reach Function	
	<ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat 	<p>No indication of significant hydrologic impairment.</p> <p>No indication of significant vegetation impairment.</p> <p>No indication of significant impairment. Important wildlife corridor; good connectivity to upstream and marine habitats. Functions as migration and rearing habitat for salmonids and winter waterfowl in the lower reaches.</p>
	Limiting Factors	<ul style="list-style-type: none"> Water quality (Fecal coliform and dissolved oxygen). Low flow of water, impairing salmonid movement
	Functions	
	<ul style="list-style-type: none"> Sustainable Not Sustainable 	<p>All functions appear sustainable.</p> <p>None identified</p>
	Priority Actions	Repair of septic drainfields in drainage basin and/or connection to City sewer.
	Current Enhancement Projects	None recorded for this reach.
Preservation/Enhancement Opportunities	<ul style="list-style-type: none"> Maintain maximum buffer distances from the creek and all tributaries Preserve wetlands and maximize wetland buffers <p>(Ref# 24,39,40,41,42,61,69,70,71,89 for above)</p>	