

SHORELINE AREA (Reach Code): Marine 8

REACH NUMBER: 34

Land Use	Current Land Use	Primarily undeveloped forested (shrub) hill slope with greenways trail. (Ref # 8, 54, 71)
	Zoning	8.6 acres water, 8.5 acres public, 0.3 acres residential (Ref # 54)
Potential Species Present	Wildlife species	6.8 acres of pinneped habitat; areas of significant importance and vulnerability for water birds (high concentrations of marine diving birds in winter); grey whales have occurred offshore (Ref # 3, 70, 71, 105)
	Fish species	Pandalid shrimp offshore; demersal groundfish off-shore. Presumed presence of Coho and Bull trout. (Ref # 3, 70, 71, 105)
	PHS species/habitat	Importance and vulnerability for water birds (high concentrations of marine diving birds in winter); grey whales have occurred offshore(Ref # 3, 70, 71, 105)
	TSE species	Chinook in bay (FT & SC). Coho (FCo) and Bull trout (FT) presumed. (Ref #92, 93, 105)
	Invasive wildlife/fish species	No data
Physical Environment	Acres of land in reach	17.4 acres total with 8.3 acres of land and 9.1 acres of water (Ref # 13)
	Aquatic vegetation	1.7 acres green algae, 0.1 acres eelgrass (Ref # 97, 98)
	Slope	20-50% slopes dominate, areas of 0-10% slopes also present mainly adjacent to the shoreline. (Ref # 47, 103)
	Buildings	0 buildings (Ref # 16)
	Culverts/stormwater utilities	No detention basins. 2 stormwater outfalls within reach (Ref # 41, 42, 40)
	Geology	Continental sedimentary deposits or rock. Land slide hazard area indicated on slopes 15-35% or greater (Ref # 21, 51, 63)
	Tributary Creeks	None indicated (Ref # 8, 42, 71)
	Impervious surface	45% semi-pervious, 33% impervious, 22% pervious (Ref # 12)
	Invasive plant species	Traveler's Joy clematis in upland forest (Ref # 71)
	Roads/transportation	0.1 miles road (0.6 acres),0.3 miles rail (Ref #34, 44, 46)
	Soils	8.1 acres of soils with moderately well drained soils with moderate infiltration rates (Hydrologic soil Group B). Erosion potential: 9.3 acres severe risk, 8.1 acres slight risk. (Ref # 51, 63)
	Topography	Range 0 to 85'; mean 20' (Ref # 47)
	FEMA	7.7 acres in 100 year floodplain, no floodway in reach (Ref # 19)
	Terrestrial Vegetation	Uplands dominated by mixed deciduous forest and shrub (Ref # 8, 71)
Marine Aquatic Function	Aquatic substrate type	1.8 acres mixed coarse, 1.2 acres artificial, 0.5 acres mixed fines (Ref #3, 99)
	Creosote structures	Old in-water rail trestle piles and cross structures (Ref # 71, 73, 74, 99)
	In-water structures	1 structure – old trestle(Ref # 71, 73, 74, 99)
	Bulkheads	Entire reach rock riprap. (Ref # 71, 73, 74, 99)
	DOE 303(d)	Inner Bay, no data. Outer Bay – cat 5 dissolved O2, Cat 2 pH, Cat 1 for Fecal, pH, and temp./ creosote piles in old trestle remains along shore (Ref # 81).
	Toxic sites/land fills	Starr Rock Site off-shore –sediment exceeds mercury bioaccumulation levels and MCUL levels (Ref # 79, 80)
	Bathymetry	-3.0' to 0.0' range; mean -0.4' (Ref # 25, 31)
	Wave energy	3.5 acres partially enclosed (Ref # 3, 99)
	Point source pollution	No data
	Waterways/dredge beds	None indicated (Ref # 3, 99)
	Drift cells	South (Ref # 3, 99)

SHORELINE AREA (Reach Code): Marine 8

REACH NUMBER: 34

Marine Ereshore	Beach characterization	No data
	High-Low tide lines	1.1 acres beach
	Erosion/accretion zones	No data
Historic & Cultural	Historic aerials	See Waterfront futures website http://www.waterfrontfutures.org/learnmore/lm_photo_gallery.htm (Ref #99)
	Archeological sites	No data
	Historic sites	None indicated (Ref # 77)
	Parks & public access	Most of reach in public ownership. Public access limited to greenways trail. No water access. (Ref # 33, 34, 36, 48)
Function Analysis	Reach Function	
	<ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat 	<p>Slightly impaired by rip rap at base of railroad tracks. (Ref# 1, 2, 5, 71)</p> <p>Slightly impaired – invasive species and reduced canopy (Ref# 1, 2, 5, 69, 70, 71)</p> <ul style="list-style-type: none"> Terrestrial habitat slightly impaired – connectivity limited Intertidal habitat – slightly impaired by rip rap Shallow and deepwater habitat – moderate to high function. High function for offshore winter bird habitat. <p>(Ref# for above 1, 2, 5, 69, 70, 71)</p>
	Limiting Factors	<ul style="list-style-type: none"> Shoreline vegetation limited in function by percentage of invasive plant species. Shoreline vegetation limited by restricted canopy cover. Hydrology and intertidal habitat limited by rip rap. <p>(Ref# for above 1, 2, 5, 69, 70, 71)</p>
	Functions	<p>All functions sustainable</p> <p>None</p>
	Priority Actions	Invasive plant species control in shoreline vegetation communities. (Ref# 71)
	Current Enhancement Projects	None identified (Ref# 1, 73, 71)
Preservation/Enhancement Opportunities	Removal of derelict in-water structures. (Ref# 1, 73, 71)	