

SHORELINE AREA (Reach Code): Marine 17

REACH NUMBER: 43

Land Use	Current Land Use	Single family residential and rail (Ref# 8, 54, 71)
	Zoning	12.5 acres residential, 9.0 acres water(Ref# 54)
Potential Species Present	Wildlife species	14.1 acres mustelid, 6.5 acres pinneped (Ref# 3, 70, 71, 105)
	Fish species	High densities of crab and shrimp indicated offshore. Presumed presence of Coho and Bull trout. (Ref# 3, 70, 71, 105)
	PHS species/habitat	Harlequin duck concentration area, diving bird concentration area, rocky substrate shorebird concentration area. (Ref# 3, 70, 71, 105)
	TSE species	Chinook offshore (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	21.5 acres total with 10.2 acres of land and 11.3 acres of water(Ref# 13)
	Aquatic vegetation	1.7 acres brown algae, 0.7 acres green algae, 0.1 acres marsh (small saltwater marsh community located in lagoon) (Ref# 97, 98)
	Slope	20-50% slopes dominate, strip of 0-5% slopes (rail road) (Ref# 47, 103)
	Buildings	4 buildings covering 0.16 total acres (Ref# 16)
	Culverts/stormwater utilities	None indicated (Ref# 40, 41, 42)
	Geology	Continental sedimentary deposits and bedrock. Land slide hazard area is indicated on slopes 15-35% or greater. (Ref# 21, 51, 63)
	Tributary Creeks	None indicated (Ref# 8, 42, 71)
	Impervious surface	56% semi-pervious, 24% pervious, 21% impervious (Ref# 12)
	Invasive plant species	Himalayan blackberry, ivy (Ref# 71)
	Roads/transportation	0.3 miles rail (Ref# 34, 44, 46)
	Soils	Infiltration rates: 9.7 acres slow (Hydrologic soil Group C), 2.3 acres moderate (Group B). Erosion potential: 9.7 acres moderate risk, 9.5 acres severe risk, 2.3 acres slight risk. (Ref# 51, 63)
	Topography	0' to 108' range; 24' mean (Ref# 47)
	FEMA	13.4 acres in 100 year floodplain, none floodway (Ref# 19)
Terrestrial Vegetation	Native shrub mixed with Himalayan blackberry and ivy. Most trees removed or heavily trimmed to maintain view. (Ref# 8, 71)	
Marine Aquatic Function	Aquatic substrate type	1.7acres artificial, 1.2 acres bedrock, 0.2 acres mixed coarse, 1.1 acres mud (Ref# 3, 99)
	Creosote structures	Possible creosote piles in railroad crossing. (Ref# 71, 73, 74, 99)
	In-water structures	Rail bed across lagoon. (Ref# 71, 73, 74, 99)
	Bulkheads	Rail bed along shoreline armored with rock bulkhead. Lagoon has nature banks along bluff. (Ref# 71, 73, 74, 99)
	DOE 303(d)	No data (Ref# 81)
	Toxic sites/land fills	None indicated (Ref# 79, 80)
	Bathymetry	-74.0 to 0.0 range; -30.3' mean (Ref# 25, 31)
	Wave energy	2.2 acres lagoon, 2.0 acres open water Himalayan blackberry, ivy (Ref# 3, 99)
	Point source pollution	No data
	Waterways/dredge beds	No data
	Drift cells	No data

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Marine Foreshore	Beach characterization	No data
	High-Low tide lines	1.6 acres beach, 1.0 acres railroad lagoon
	Erosion/accretion zones	No data
Historic & Cultural	Historic aerials	No data
	Archeological sites	No data
	Historic sites	None indicated Himalayan blackberry, ivy (Ref# 77)
	Parks & public access	Private access only (Ref# 33, 34, 36)
Function Analysis	<p>Reach Function</p> <ul style="list-style-type: none"> Hydrologic Shoreline Vegetation Habitat <p>Limiting Factors</p> <p>Functions</p> <ul style="list-style-type: none"> Sustainable Not Sustainable <p>Priority Actions</p> <p>Current Enhancement Projects</p> <p>Preservation/Enhancement Opportunities</p>	<p>(Ref# for the following 1, 2, 5, 69, 70, 71)</p> <p>Slightly Impaired to Impaired by railroad bed</p> <p>Slightly Impaired by canopy removal for views and invasive plants</p> <ul style="list-style-type: none"> Terrestrial – slightly Impaired from railroad and canopy removal Intertidal Habitat – slightly Impaired to Impaired by railroad bed and berm across lagoon. Restriction by rail crossing reduces tidal flushing. Shallow water and deepwater habitat – Slightly impaired for shallow water by rail crossing at lagoon. Unimpaired for deepwater habitat. Railroad crossing at lagoon. Removal of canopy in shoreline vegetation for views. <p>All functions sustainable and can be improved with enhancements</p> <p>None</p> <ul style="list-style-type: none"> See preservation/ enhancement section. Action # 29 was medium and Action #31 was rated as a low priority. (Ref# 73) <p>None identified</p> <ul style="list-style-type: none"> Repair or replace culvert in railroad trestle at mouth of lagoon (BBDP action # 29) (Ref# 73) Conserve this marine reach because of multiple functions and difficult to replace (BBDP action # 31) (Ref# 73)