

**SHORELINE AREA (Reach Code): Marine 16**

**REACH NUMBER: 42**

Land Use	Current Land Use	Residential on top of bluff. Undeveloped shrubby bluffs sides to railroad. (Ref# 8, 54, 71)
	Zoning	10.5 acres residential, 10.5 acres water (Ref# 54)
Potential Species Present	Wildlife species	14.9 acres mustelids, 7.1 acres pinneped (Ref# 3, 70, 71, 105)
	Fish species	Offshore high shrimp and crab densities. 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 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	21.0 acres total with 9.3 acres of land and 11.7 acres of water (Ref# 13)
	Aquatic vegetation	3.7 acres mixed algae, 2.1 acres eelgrass, 0.1 acres brown algae (Ref# 97, 98)
	Slope	0-5% slopes located adjacent to the shoreline, 20-100% slopes dominate the upland areas (Ref# 47, 103)
	Buildings	6 buildings covering 0.06 total acres (Ref# 16)
	Culverts/stormwater utilities	Sewer mains in reach. No retention basins 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	39% pervious, 31% impervious, 30% semi-pervious (Ref# 12)
	Invasive plant species	No data
	Roads/transportation	0.4 miles rail (Ref# 34, 44, 46)
	Soils	Infiltration rates: 6.6 acres moderate (Hydrologic soil Group B), 3.4 acres very slow with high runoff potential (Group D), 2.4 acres high with low runoff potential (Group A). Erosion potential: 8.5 acres severe risk, 6.6 acres moderate risk, 5.8 acres slight risk. (Ref# 51, 63)
	Topography	0 to 93' range; 19' mean (Ref# 47)
	FEMA	10.4 acres in 100 year floodplain, none in floodway (Ref# 19)
	Terrestrial Vegetation	Bluff vegetated with predominately native shrub and trees. Top of bluff is mix of lawns and trees and shrubs. (Ref# 8, 71)
Marine Aquatic Function	Aquatic substrate type	6.2 acres mixed coarse, 2.0 acres artificial (Ref# 3, 99)
	Creosote structures	None identified (Ref# 71, 73, 74, 99)
	In-water structures	None identified(Ref# 71, 73, 74, 99)
	Bulkheads	Entire reach armored with rock bulkhead(Ref# 71, 73, 74, 99)
	DOE 303(d)	No data (Ref# 81)
	Toxic sites/land fills	None indicated (Ref# 79, 80)
	Bathymetry	-24.0' to 0.0 range; -7.0' mean (Ref# 25, 31)
	Wave energy	8.2 acres open water (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	2.8 acres beach
	Erosion/accretion zones	No data
Historic & Cultural	Historic aerials	No data
	Archeological sites	No data
	Historic sites	None indicated (Ref# 77)
	Parks & public access	None, all private access (Ref# 33, 34, 36)
Function Analysis	<p><b>Reach Function</b></p> <ul style="list-style-type: none"> <li>Hydrologic</li> <li>Shoreline Vegetation</li> <li>Habitat</li> </ul> <p><b>Limiting Factors</b></p> <p><b>Functions</b></p> <ul style="list-style-type: none"> <li>Sustainable</li> <li>Not Sustainable</li> </ul> <p><b>Priority Actions</b></p> <p><b>Current Enhancement Projects</b></p> <p><b>Preservation/Enhancement Opportunities</b></p>	<p>(Ref# for the following 1, 2, 5, 69, 70, 71)</p> <p>Slightly impaired in areas with rip rap. Unimpaired in other areas.</p> <p>Slightly impaired by canopy removal for view and invasive species.</p> <ul style="list-style-type: none"> <li>Terrestrial habitat- Slightly impaired by railroad and existing land use at top of bluff</li> <li>Intertidal habitat- Slightly impaired in areas with rip rap. Unimpaired in areas without rip rap.</li> <li>Shallow water and deep water habitats- Unimpaired high level function for these habitats.</li> <li>Railroad bed</li> <li>Canopy removal in shoreline vegetation for views.</li> </ul> <p>All functions sustainable.</p> <p>None</p> <p>Conserve this marine reach because of multiple functions and difficult to replace (BBDP action # 31) (Ref# 73)</p> <p>None identified</p> <ul style="list-style-type: none"> <li>Removal of invasive plant species (Ref# 71)</li> <li>Selective reestablishment of canopy in shoreline vegetation communities (Ref# 71)</li> </ul>