

Reach 6	City of Pasco
Reach Description: Columbia River from State Route 397 (Cable) bridge to the upstream edge of Sacajawea State Park	
Shoreline Jurisdiction: 744 acres	
	
Source: https://fortress.wa.gov/ecy/coastalatlantools/UICoastalAtlas/Tools/ShorePhotos.aspx	
Subreaches; see Map 3:	
SR 6a: Begins at the Cable Bridge to the railroad bridge upstream of Schlagel Park	
SR 6b: From the railroad bridge to the end of marina facility/breakwater	
SR 6c: From the edge of marina facility/breakwater to the upstream edge of Sacajawea State Park	
CHARACTERISTICS	
Ownership: Reach 6 is entirely owned by Port of Pasco, with an exception of SR 6b. The Boat Basin in SR 6b is owned by USACE.	
Land Use/Current SMP:	
Land use designation:	
<ul style="list-style-type: none"> • Current land uses are Industrial and Open Space Nature • Zoning – Light Industrial (I-1), Heavy Industrial (I-3), Medium Density Residential (R-2) and Medium Density Residential (R-3) 	

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Current SMP Environment Designation: Urban	
<p>Existing Land Cover/Development:</p> <p>Reach 6 consists of a mix of riprap, riparian vegetation, a trail, a marina, residential structures, warehouses, parking, unimproved vacant land, and industrial land. SR 6a is mostly riprap that includes a barge dock. SR 397 crosses the shoreline on SR 6a. SR 6b has riparian vegetation around the marina and Schlagel Park. Industrial land cover dominates SR 6c. There is riparian vegetation on the edge of the shoreline in SR 6b and 6c.</p>	
<p>Geomorphic Character:</p> <p>Description: The shoreline throughout the reach consists of alluvium with relatively low banks through a developed area.</p> <p>Hardened Banks: Approximately 6,500 linear feet of artificial hardened banks exist along the Columbia River (left bank) within all the subreaches.</p>	
<p>Flooding and Geological Hazards:</p> <p>Flooding: Flooding is controlled by Lake Wallula pool levels. Levees are present along SR 6a, which reduce flooding potential.</p> <p>Geological Hazards: There are no geologic hazard areas in Reach 6.</p>	
<p>Existing Public Access:</p> <p>Sacajawea Heritage Trail parallels part of the shoreline in Reach 6 and shifts away from the shoreline in SR 6c. Schlagel Park area includes boat marina and related facilities. The Port of Pasco property in SR 6c does not include any major public access.</p> <p>Identified Public Access Improvements:</p> <p>The Port of Pasco Boat Basin/Marine Terminal Master Plan proposes improvements to the marina, and the addition of public beach, viewpoints, and a marina park. In addition to the Boat Basin Plan/Marine Terminal Master, the Rivershore Linkage and Amenities Plan (Pasco 2012) recommends development of water enjoyment facilities (e.g., dining) along the shoreline, improvement of trail connection between the boat basin and Pasco's urban center, and building a Sacajawea Trail underpass through the Schlagel Park boat basin neighborhood. The plan recommends building a shoreline park between the boat basin and Osprey Point. The Port of Pasco Osprey Pointe Business Park Plan indicates trail connections along the shoreline.</p>	
ECOLOGICAL CONDITIONS	
<p>Water Quantity and Sediment:</p> <p>No local impacts to water quantity are noted in this reach. Sediment may be impacted by levees as the hardened banks may cause higher velocities, which may result in more sediment movement in SR 6a and may cause aggradation in SR 6b where the levees end and velocities may slow.</p>	

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<p>Water Quality:</p> <p>Water quality may be impacted by industrial activities in SRs 6a and 6c and recreational activities throughout the reach. A boating area in SR 6b may have the potential for impacting water quality.</p>	
<p>Habitat Characteristics and PHS Presence:</p> <p>The shorelines of Reach 6 are generally armored and landscaped and offer little wildlife habitat, except for pockets of shallow water and riparian vegetation that appear near Cascade Marina and Sacajawea State Park. The reach is generally industrialized and landscaped for human use. ESA-listed and resident fish species occur within the Columbia River in this reach.</p> <p>SR A: Shorelines in this subreach are armored with riprap and contain overwater structures and several sets of piles, as well as a railroad bridge at the eastern end of this subreach. Riparian vegetation is absent, as access roads, parking lots, and the multi-use trail wind through the adjacent shoreline of the properties. Fish and wildlife habitat function is limited by this development.</p> <p>SR B: This subreach contains the Cascade Marina and Schlagel Park, which exhibit mostly armored shorelines with a thin strip of riparian tree vegetation around the perimeter of the marina embayment. The embayment has two large boat houses and one long dock with boat slips. Open water habitat is available for waterfowl and other birds, and quiet shallow water provides refugia for juvenile fish.</p> <p>SR C: The western third of this subreach, which contains the Port of Pasco building and property, has mowed landscaped areas along the water, as well as the multi-use trail 30 to 50 feet from the shore. Sparse vegetation grows in this area. The eastern two-thirds is industrialized in the uplands and has bare ground within 30 to 150 feet of the shore, but the immediate shoreline contains a sizeable riparian buffer with shrubs and trees next to the water for wildlife use. Nearing Sacajawea State Park on the eastern end of this subreach, waterfowl concentrations occur, and habitat begins to appear that could be potentially suitable for sage grouse and burrowing owl. There is one small dock at the end of Southeast Road 27.</p>	
<p>ECOLOGICAL FUNCTIONS ANALYSIS</p>	
<p>SR 6a</p> <p>Level of Existing Function: Impaired</p> <p>Stressors:</p> <p>Upland development: Armored levee, industrial development upland of levee, bridge for Highway 397 and railroad bridge, fill area waterward of levee alignment with warehouse structures and wooden overwater structures, mooring dolphins, and rock armoring with a small area of sheetpile armoring.</p> <p>Potential Restoration Opportunities: Consider incorporating wood structure and vegetation where possible. Replace creosote dock and dolphin material with material that has less water quality implications.</p> <p>Potential Protection Opportunities: Provide stormwater controls consistent with Eastern Washington Stormwater Manual.</p>	

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SR 6b	
Level of Existing Function: Partially Functioning	
Stressors:	
Upland development: Breakwater structures, marina in central portion of subreach with covered and uncovered moorage, armored shoreline and upland parking lot, single family residential development in southern portion of subreach, shared dock.	
Recreational use: Trails along breakwater structures, boat ramp, and associated dock at Schlagel Park.	
Potential Restoration Opportunities: Incorporate riparian buffers where absent. Offer incentives for low-impact development stormwater measures.	
Potential Protection Opportunities: Protect existing riparian areas within park, near residential areas, and along breakwater structures. Provide stormwater controls consistent with Eastern Washington Stormwater Manual.	
SR 6c	
Level of Existing Function: Partially Functioning	
Stressors:	
Upland development: Vegetated riparian area with areas of mowed turf adjacent to Osprey Point, with undeveloped, non-native vegetated upland in this same vicinity. Southern portion of subreach includes industrial port development hard banks in moorage areas and elsewhere intact riparian buffers.	
Recreational use: Paved trail/maintenance road at top of levee, unpaved roads waterward of E. Commerce Street at south end of subreach.	
Potential Restoration Opportunities: Consider more riparian buffer areas within industrial complex.	
Potential Protection Opportunities: Preserve existing riparian vegetation and if possible do not mow these woody species. Provide stormwater controls consistent with Eastern Washington Stormwater Manual.	