



# SHORELINE MASTER PROGRAM

SMP Update  
City Council Study Session  
Aug. 8 & 15, 2012

# Shoreline Modifications

- 20.16.801 – Intent
- 20.16.810 – Clearing and Grading
- 20.16.820 – Docks, Piers, and in-water structures
- 20.16.830 – Dredging
- 20.16.840 – Flood Hazard Reduction
- 20.16.850 – Landfills
- 20.16.860 – Restoration
- 20.16.870 – Shoreline Stabilization
- 20.16.880 – Stormwater Control Facilities

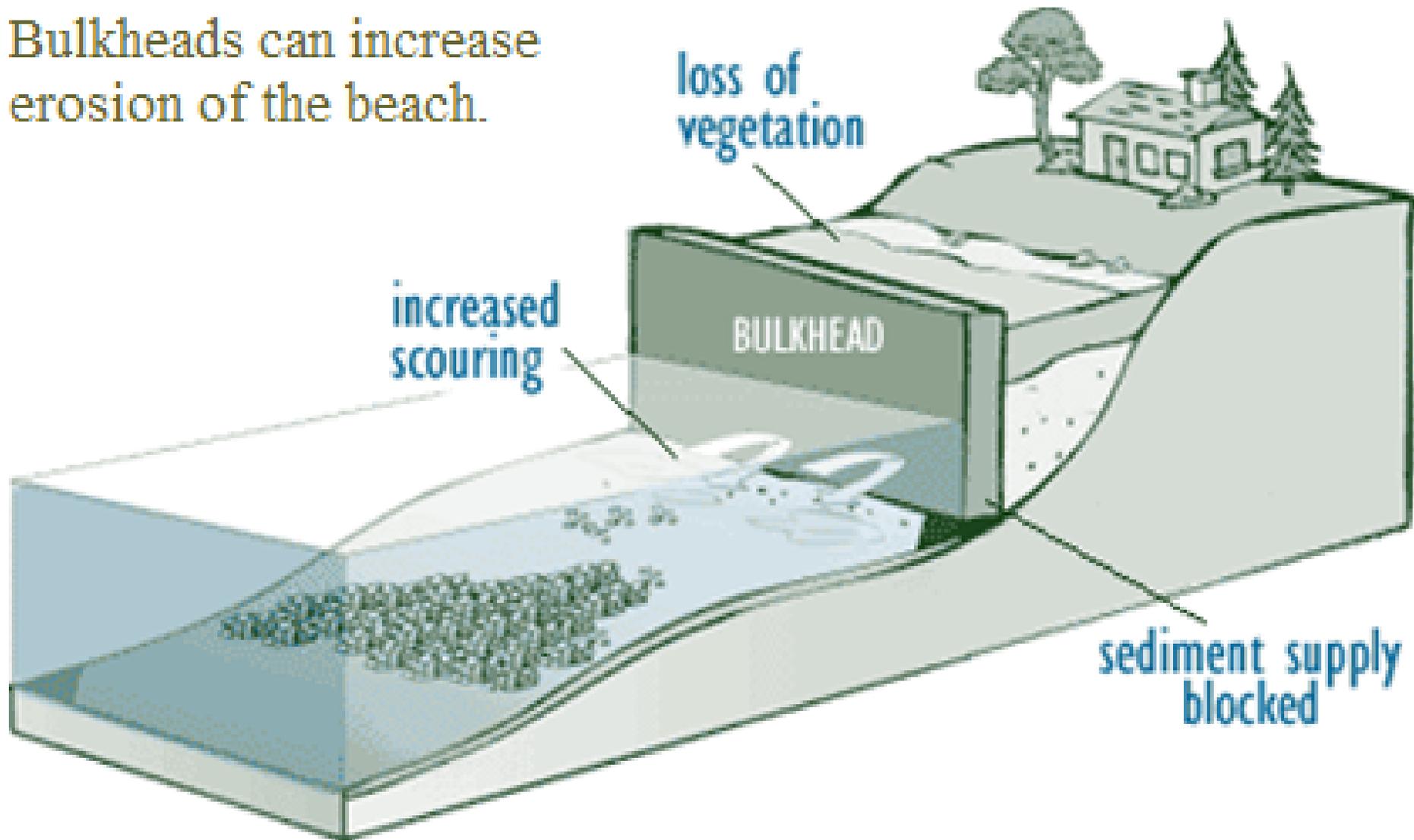


# Shoreline Armoring History



# Impacts of Shoreline Armoring

Bulkheads can increase erosion of the beach.



# Armoring Effects on Habitat

ARMORING EFFECTS	Sea urchins	Sea cucumber	Dungeness crab	Oysters	Geoduck	Hardshell clams	Pacific herring	Juvenile salmon	Rock sole	Pacific sand lance	Surf smelt
Armoring-related habitat shift	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Loss of spawning habitat			<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Loss of shoreline vegetation								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Loss of wetland vegetation								<input checked="" type="checkbox"/>			
Loss of large organic debris								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Changes in food resources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
Loss of migratory corridors								<input checked="" type="checkbox"/>			

**KEY**

- Well documented evidence of negative effects.
- High potential for negative effects but not documented.
- Some potential for long term effects but not documented.



# Code Requirements for Armoring

- Priority of alternatives:
  - Resolve upland issues (drainage)
  - Plant native vegetation
  - Soft armoring
  - Soft armoring with hard elements
  - Hard armoring
- New construction must demonstrate bulkheads are not necessary.
- Vegetation Management Plan is required.



# Shore Stabilization Methods



# In-Water Structures

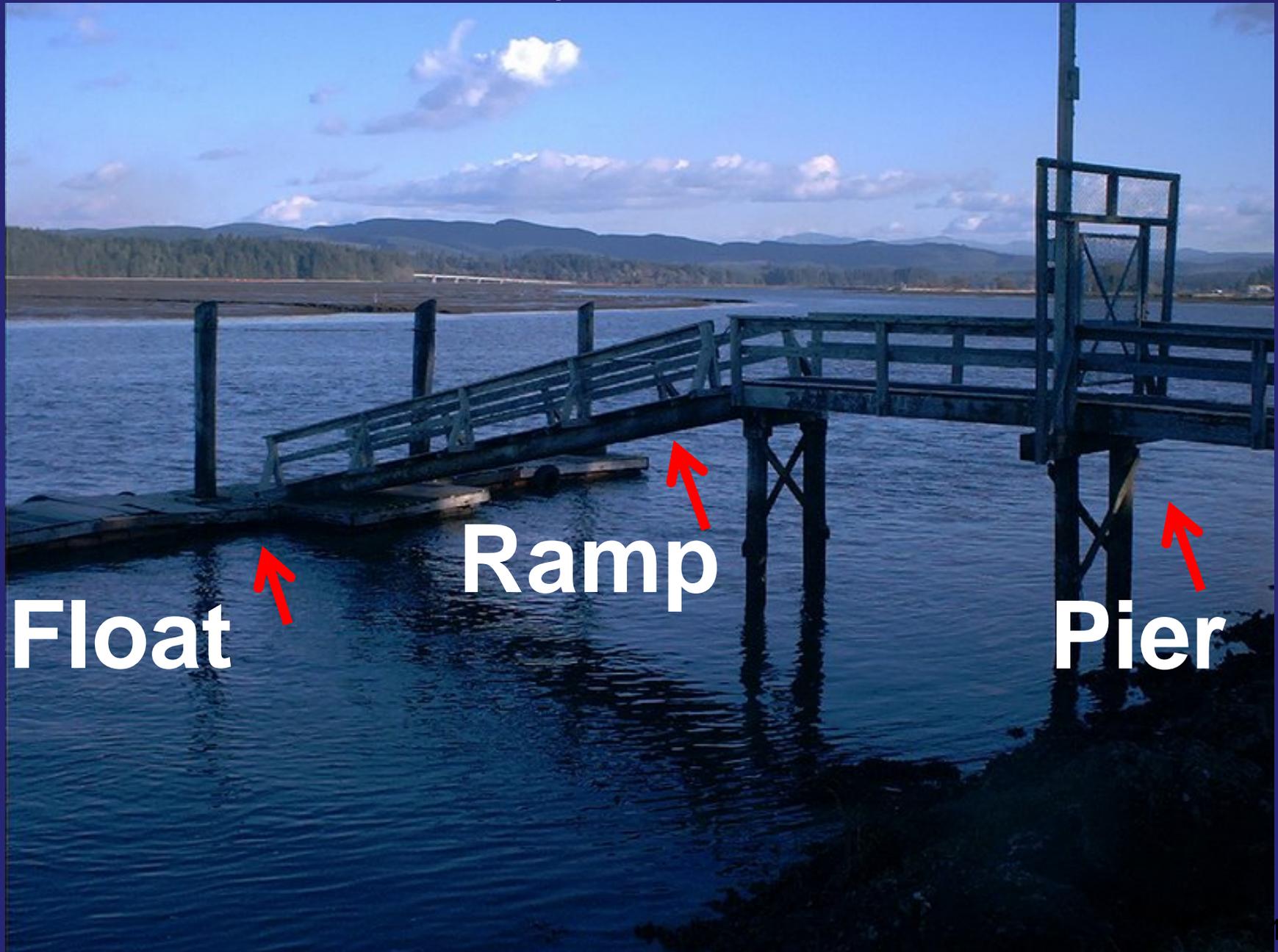
- Impacts to habitat:
  - Reduced light penetration – Fish Eyes
  - Altering migration routes
  - Reduction in habitat area



# Docks in an Urban Environment



# Anatomy of a Dock



**Float**

**Ramp**

**Pier**

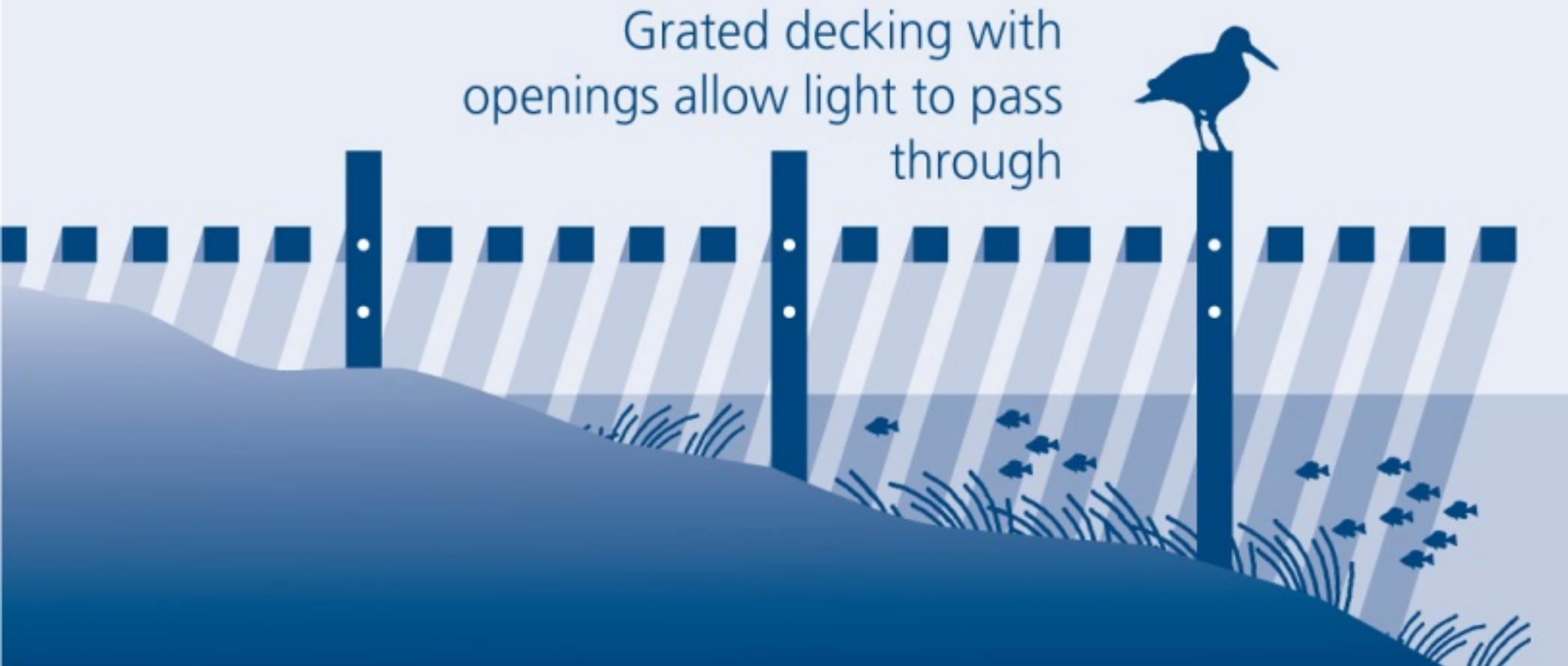
# State Requirements for Docks

WAC 173-26-231(3)(b)

- Allowed only for
  - Water dependent use (including single-family docks)
  - Public access
- Must be the minimum size needed
- Shared docks preferred over individual single-family
- Achieve No Net Loss of ecological functions
  - Avoid impacts
  - Minimize impacts
  - Mitigate impacts

# Innovative Concept

Grated decking with openings allow light to pass through



# New Code Provisions for Bremerton

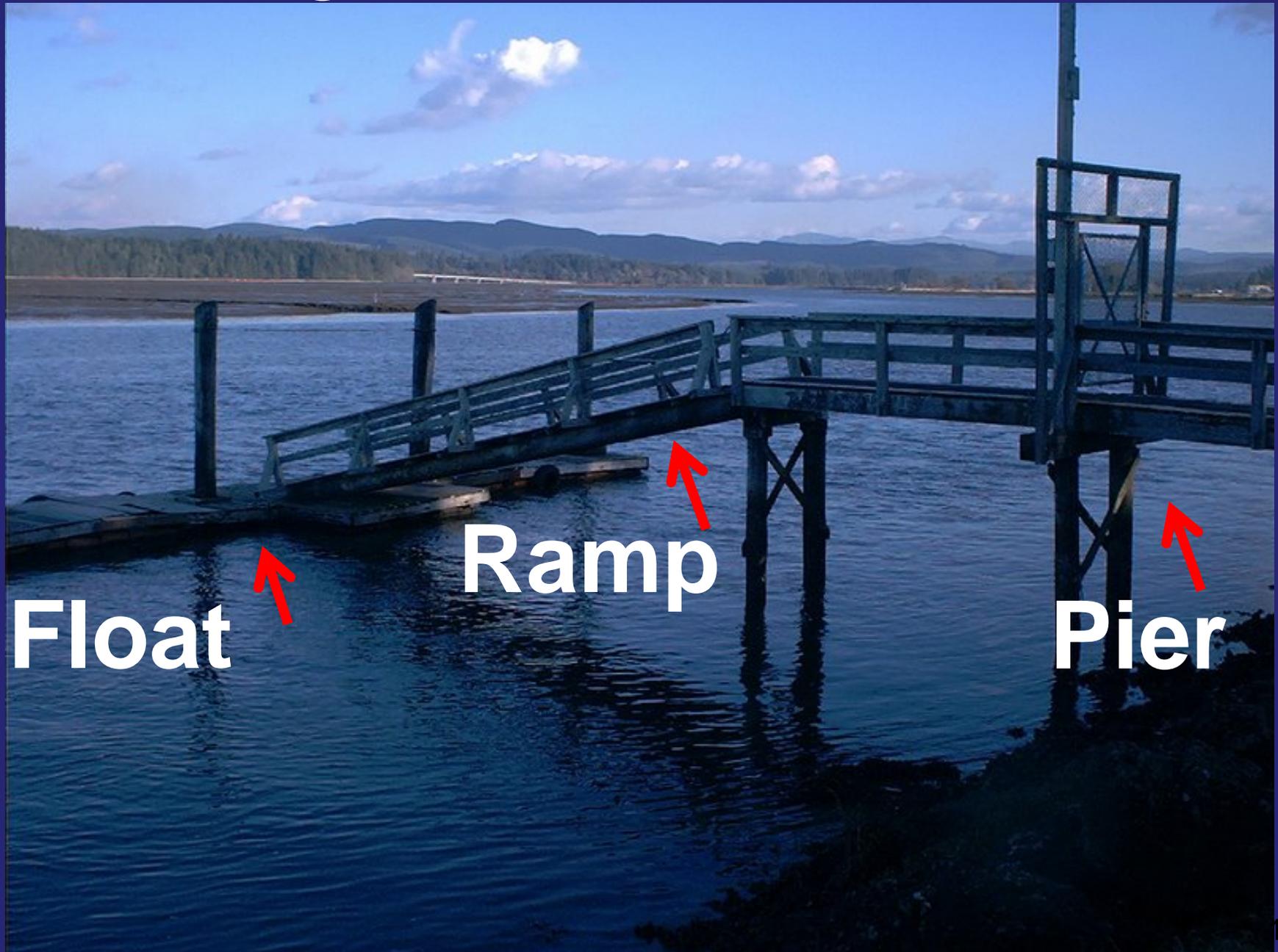
- Shared moorage, upland storage and Mooring buoys are preferred options
- Grating and light penetration is required
- Public access is required for commercial docks
- New subdivisions  
Must share moorage



# Other Agency Permits

- Department of Ecology
  - Reviews City permit, Coastal Zone Management, and Water Quality Review
- Department of Fish & Wildlife
  - Hydraulic Project Approval
- Department of Natural Resources
  - Aquatic Land Lease Approval
- U.S. Army Corp of Engineers
  - Clean Rivers & Harbors (Section 10 Permit)
  - Clean Water Act Permit (Section 404 Permit)
- U.S. Fish & Wildlife Service & National Marine Fisheries Service
  - Endangered Species Act Consultation
  - Biological Opinion

# Height limits on Docks



# Dock Height

- Poulsbo – Prohibits residential docks
- Port Orchard – No height limit
- Bainbridge Island – No height limit
- Kitsap County – No height limit
- Whatcom County – 3' height limit above extreme high tide



# For More Information:

- Go to the website [Bremertonshorelines.com](http://Bremertonshorelines.com)
- Contact Staff: Nicole Floyd 473-5279
- Send an email [SMP@ci.bremerton.wa.us](mailto:SMP@ci.bremerton.wa.us)
- Public comments will be received directly following this presentation.

