Red Text = Edits made through late 2018 and posted online.
Green text = Edits made beginning in 2019.

Notes: Staff are working with the Department of Ecology to address the agency’s comments on specific sections of draft Chapter 19.600. These areas are indicated with the following note: “working with Ecology on this section”.

This version of Chapter 19.600 includes references to state law and guidance for SMPs, including permit requirements and development standards. If there are no specific state law provisions referenced in a given section of this document, there may not be specific language that directly corresponds in state law, or the SMP language was derived from general SMA guidance in RCW 90.58 and/or WACs 173-26 and 173-27.

Chapter 19.600  Shoreline Use and Modification
Development Standards

19.600.100 Applicability
The provisions in this section apply to specific common uses and modifications and types of development to the extent they occur within shoreline jurisdiction.

19.600.102 General Shoreline Modification Principles
It is the intent of this master program to implement the following principles for all shoreline modifications, per WAC 173-26-231(2):

1. Allow structural shoreline modifications only where they are demonstrated to be necessary to support or protect an allowed primary structure or a legally existing shoreline use that is in danger of loss or substantial damage or are necessary for reconfiguration of the shoreline for mitigation or enhancement purposes.

2. Reduce the adverse effects of shoreline modifications and, as much as possible, limit shoreline modifications in number and extent.

3. Allow only shoreline modifications that are appropriate to the specific type of shoreline and environmental conditions for which they are proposed.

Commented [AD1]: The language in this section is from WAC 173-26-231(2).
4. Assure that shoreline modifications individually and cumulatively do not result in a net loss of ecological functions. This is to be achieved by giving preference to those types of shoreline modifications that have a lesser impact on ecological functions and requiring mitigation of identified impacts resulting from shoreline modifications.

5. Where applicable, base provisions on scientific and technical information and a comprehensive analysis of drift cells for marine waters or reach conditions for river and stream systems. Contact Ecology for available drift cell characterizations.

6. Plan for the enhancement of impaired ecological functions where feasible and appropriate while accommodating permitted uses. As shoreline modifications occur, incorporate all feasible measures to protect ecological shoreline functions and ecosystem-wide processes.

7. Avoid and reduce significant ecological impacts according to the mitigation sequence in WAC 173-26-201 (2)(c).

### 19.600.105 Use and Modifications Matrix

#### Table 19.600.105 Shoreline Use and Modifications Matrix

<table>
<thead>
<tr>
<th>SHORELINE USES and MODIFICATIONS</th>
<th>Natural</th>
<th>Rural Conservancy</th>
<th>Urban Conservancy</th>
<th>Shoreline Residential</th>
<th>Aquatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 19.600.110</td>
<td>X</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>X</td>
</tr>
<tr>
<td>Aquaculture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial Geoduck</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>2</td>
</tr>
<tr>
<td>Other Aquaculture</td>
<td>P&lt;sup&gt;1&lt;/sup&gt;</td>
<td>P&lt;sup&gt;1&lt;/sup&gt;</td>
<td>P&lt;sup&gt;1&lt;/sup&gt;</td>
<td>P&lt;sup&gt;1&lt;/sup&gt;</td>
<td>2</td>
</tr>
<tr>
<td>Note: An SDP shall not be required for aquaculture development that meets the exemption criteria of WAC 173-27-040. In some cases, the WAC dictates when a conditional use permit must be obtained. Jurisdictions also have the discretion to require conditional use permits for a given use or modification if not otherwise pre-empted by the WAC.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Barrier Structures (Includes Breakwaters, Jetties, Groins and Weirs) 19.600.120</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>X</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>2</td>
</tr>
<tr>
<td>Ecological Restoration&lt;sup&gt;4&lt;/sup&gt;</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>2</td>
</tr>
<tr>
<td>Boating Facilities (Including Marinas) 19.600.125</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>X</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>2</td>
</tr>
<tr>
<td>Marinas</td>
<td>X</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>2</td>
</tr>
</tbody>
</table>

**Legend:**
- P = Substantial Development Permit (SDP)
- E = Exempt from SDP if exemption criteria in Section 19.500.100(C) are met
- C = Conditional Use Permit (CUP)
- Ad = Administrative CUP
- X = Prohibited

Commented [AD2]: See individual Use and Modification sections below the matrix for comments on state permitting requirements/guidelines.

In general, state law requires a substantial development permit for activities not meeting the exemption criteria of WAC 173-27-040. In some cases, the WAC dictates when a conditional use permit must be obtained. Jurisdictions also have the discretion to require conditional use permits for a given use or modification if not otherwise pre-empted by the WAC.
### SHORELINE USES and MODIFICATIONS

The following permits apply to the specific uses, modifications and development. Individual uses, modifications and development shall comply with the provisions of this Program, particularly Section 19.400.110 (Mitigation), and the Thurston County Comprehensive Plan as of the effective date of this Program.

| Legend: P = Substantial Development Permit (SDP) | E = Exempt from SDP if exemption criteria in Section 19.500.100(C) are met | C = Conditional Use Permit (CUP) | Ad = Administrative CUP | X = Prohibited |
| Natural | Rural Conservancy | Urban Conservancy | Shoreline Residential | Aquatic |

#### Commercial 19.600.130
- Water-Oriented: X P P P X
- Non-Water-Oriented: X X^4 X^4 X^4 X^4

#### Dredging (see Section 19.600.135)
- General: X C C C 2
- Maintenance Dredging of Existing Channels (as described in 19.600.135(C)(4)): E E E E E

#### Dredge Disposal (see section 19.600.135)
- General: X C C C 2
- Ecological Restoration: C P P P 2

#### Fill (see section 19.600.140)
- Waterward of OHWM: X C C C 2
- Upland of OHWM or Ecological Restoration: C P P 2
- Ecological Restoration: P P P 2

#### Flood Hazard Reduction Measures 19.600.170, 19.400.150
- General: C C C C C
- Nonstructural methods: E E E E N/A

#### Forest Practices 19.600.143
- Commercial Forestry: C P X X N/A
- Class IV-General: C P P P N/A

#### Industrial 19.600.150
- Water-oriented Uses: X X C X C
- Non-water-oriented Uses: X X X X X

#### Mining 19.600.155
- General: X C^1 X X X

#### Mooring Structures and Activities (Includes piers, docks, floats, ramps and buoys) 19.600.160
- Single Use Docks: X P P P X
- Joint or Public Use Docks: X P P P P
- Floats: X X X X X
- Launch: X X X X X
- Buoys: X X X X X
- Boat lifts: X X X X X

#### Recreation and Public Access 19.600.165
**SHORELINE USES and MODIFICATIONS**

The following permits apply to the specific uses, modifications and development. Individual uses, modifications and development shall comply with the provisions of this Program, particularly Section 19.400.110 (Mitigation), and the Thurston County Comprehensive Plan as of the effective date of this Program.

<table>
<thead>
<tr>
<th>Legend:</th>
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<th>Urban Conservancy</th>
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<th>Aquatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
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<tr>
<td>E</td>
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<td>Ad</td>
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<tr>
<td>X</td>
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</tr>
</tbody>
</table>

Non-motorized, Water-Oriented: P P P P P P 13

Other Water-Oriented: C12 P P P P 13

Non-Water-Oriented: X P P P P P 13

Residential 19.600.170

| Single-Family | Ad E13 E13 E13 E13 | X |
| Multi-Family, Subdivisions, and Accessory Dwelling Units | X14 | C C P X |
| Swimming Pools (in buffers and setbacks) | X X X X X X |
| Boat houses | X X X X X X |
| Water-oriented storage structure | X E28 E28 E28 E28 X |
| Beach stairs – working with Ecology on this section | X P P P P X |

Restoration and Enhancement

| General | P P P P P |
| Retaining Walls | X C C C |

Shoreline Stabilization (New, Repair and Maintenance) 19.600.172

| Hard | C C C C |
| Hybrid | Ad Ad Ad Ad |
| Soft – working with Ecology on this section | Ad17 Ad17 Ad17 Ad17 |

Transportation 19.600.180

| General | X18 C C P P |

Utilities 19.600.185

| General | X P P P |

Footnotes:

1. Does not modify or limit agricultural activities occurring on lands currently in agricultural use.
2. Adjoining upland designation applies; see applicable regulations.
3. A CUP shall be required for floating net pens in all areas and for aquaculture activities in the Natural environment designation where the proposal requires new structures or facilities (see section 19.600.115).
4. See Barrier Structures and Other In-Stream Structures (Section 19.600.120) for qualifying ecological restoration.
5. If the use is water-dependent or necessary to support an allowed use in the adjoining upland designation, then may be permitted through a SDP.
6. See Commercial Development (Section 19.600.130) for allowances with a CUP.
7. See Dredging and Dredge Disposal (Section 19.600.135) for qualifying ecological restoration.
8. If the use is water-dependent or necessary to support an allowed use in the adjoining upland designation, then may be permitted with a CUP.
9. Provided consistent with the Thurston County Comprehensive Plan Mineral Resources Overlay 20.30B.
10. Single-use buoys are exempt from Substantial Development Permit in certain environments, in accordance with Sections 19.500.100(C)(3)(B), 19.500.100(C)(3)(f), and 19.600.160(A)(1).
11. If the adjoining upland use is a public park, then up to two buoys allowed.
12. May be permitted through a SDP if consistent with an approved park plan.
13. See Recreation and Public Access (Section 19.600.165) for applicability in the Aquatic designation.
14. Non-water-oriented uses shall also be subject to shoreline buffer standards (Section 19.400.120).
15. SDP if single-family residence exemption criteria in Section 19.500.100(C)(3) and WAC 173-27-040 are not met.
16. May be permitted through a CUP for subdivisions.
17. Soft shore shoreline stabilization is exempt from a SDP if exemption criteria in Section 19.500.100(C)(3)(c) are met.
18. Hard shore stabilization prohibited in Aquatic unless demonstrated necessary, then may be permitted through a CUP (see Section 19.600.175).
19. Soft shoreline stabilization may be permitted with a SDP in Aquatic where demonstrated necessary, or through an exemption where criteria are met (see 19.600.175(D)).
20. If necessary to serve essential transportation corridors or in support of permitted uses and activities that cannot be located outside of the applicable buffers, may be permitted through a CUP (see Section 19.600.180).  
21. See Transportation (Section 19.600.185) for limitations in Aquatic designation.
22. If essential utilities in support of permitted uses and activities that cannot be located outside of the applicable buffers, may be permitted with a CUP. Utilities in support of a permitted use shall be reviewed under the permitted use.
23. Utilities associated with an exempt single-family residence and appurtenances are accessory to the development and also “exempt”.
24. An SDP shall not be required for aquaculture development that meets the exemption criteria at Section 19.500.100(C). Supplemental seeding activities are also exempt.
25. Non-water oriented industrial development is generally prohibited, unless the development meets the criteria in 19.600.150(B)(3). If the criteria is met, the development shall require a CUP.
26. See applicable standards in section 19.400.150.
27. Private non-commercial docks may be exempt from an SDP if they meet criteria in 19.600.100(C)(3) and WAC 173-27-040.
28. An SDP shall not be required for water-oriented storage structures that meet the exemption criteria of Section 19.500.100(C).

19.600.110 Agriculture

A. Environment Designations Permit Requirements

Except for Agricultural uses and lands that exist at the time of the adoption of this Program, and thus do not need to apply for a permit, Where agriculture is proposed in the following designations the identified permit requirements shall apply:

1. Natural- Prohibited

2. Rural Conservancy and Urban Conservancy- SDP (exempt if the activity meets criteria in 19.500.100(C)(3)(e) and WAC 173-27-040.)

3. Shoreline Residential- SDP (exempt if the activity meets criteria in 19.500.100(C)(3)(e) and WAC 173-27-040.)

4. Mining- Prohibited

5. Aquatic: Prohibited (Farming of fin fish, shellfish and management of other aquatic products are subject to the policies and regulations of Section 19.600.115, Aquaculture).

B. Development Standards

1. Existing Agriculture,

   a. This section does not require modification of or limit agricultural activities occurring on agricultural lands as of the effective date of this Program.

Commented [AD3]: State law exempts ongoing ag from SMA regulation (RCW 90.58.065)

Commented [AD4]: WAC 173-26-241 states ag not meeting exemption criteria is subject to SDP. Propose adding language here to reflect this.

Commented [AD5]: WAC 173-26-241(3)(a)(ii): Master programs shall not require modification of or limit agricultural activities occurring on agricultural lands.
Expansion of agricultural activities on existing agricultural lands shall be encouraged to comply with the vegetation conservation standards identified in Section 19.400.120.

New agricultural practices below the Standard Buffer and above the Reduced Standard Buffer shall require an approved Farm Management Plan in accordance with United States Department of Agriculture standards. New agricultural structures that impact critical areas will follow requirements in Chapter 24 TCC. New agricultural activities are subject to the following:

a. New agricultural activities proposed on land not currently in agricultural use, and any modifications in support of such use, shall comply with the following:
   i. The use or modification is consistent with the environment designation in which the land is located, and
   ii. The use or modification is located and designed to assure no net loss of ecological functions and in such a way as to not have a significant adverse impact on other shoreline resources and values.

b. A native vegetation buffer, consistent with that of the Environment Designation in which the use is occurring shall be permanently maintained between new agricultural activities and the OHWM of the shoreline or wetlands. A fence shall be installed at the outer buffer edge to separate water bodies from livestock pastures.

c. Confined animal feeding operations, retention and storage ponds for feed lot wastes, and stock piles of manure solids shall not be allowed within shoreline jurisdiction, unless shoreline ecological functions are mitigated through an approved Farm Management Plan.

d. Soil conservation measures, including but not limited to erosion control, crop rotation, mulching, strip cropping, contour cultivation, and best management practices, shall be utilized to minimize soil erosion.

e. Aerial spraying of fertilizers, pesticides, or herbicides over waterbodies is prohibited.

f. No fertilizers, pesticides or herbicides shall be used in agricultural practices unless the applicant can demonstrate that the application of such substances will not result in the direct runoff of contaminated waters into water bodies or aquifer-recharge areas.

g. The applicant may be required to submit a soil study and drainage plan in order to determine that the agricultural practices meet the regulations set forth above.

Existing Agriculture.

a. This section does not require modification of or limit agricultural activities occurring on agricultural lands as of the effective date of this Program.

b. Expansion of agricultural activities on existing agricultural lands shall be encouraged to comply with the vegetation conservation standards identified in Section 19.400.120.

New Agricultural Activities.

a. New agricultural activities proposed on land not currently in agricultural use, and any modifications in support of such use, shall comply with the following:
   i. The use or modification is consistent with the environment designation in which the land is located, and
   ii. The use or modification is located and designed to assure no net loss of ecological functions and in such a way as to not have a significant adverse impact on other shoreline resources and values.
b. A native vegetation buffer, consistent with that of the Environment Designation in which the use is occurring, shall be permanently maintained between new agricultural activities and the OHWM of the shoreline or wetlands. A fence shall be installed at the outer buffer edge to separate water bodies from livestock pastures.

c. Confined animal feeding operations, retention and storage ponds for feed lot wastes, and stock piles of manure solids shall not be allowed within shoreline jurisdiction, unless shoreline ecological functions are mitigated through an approved Farm Management Plan.

d. Soil conservation measures, including but not limited to erosion control, crop rotation, mulching, strip cropping, contour cultivation, and best management practices, shall be utilized to minimize soil erosion.

e. Aerial spraying of fertilizers, pesticides, or herbicides over waterbodies is prohibited.

f. No fertilizers, pesticides or herbicides shall be used in agricultural practices unless the applicant can demonstrate that the application of such substances will not result in the direct runoff of contaminated waters into water bodies or aquifer recharge areas.

g. The applicant may be required to submit a soil study and drainage plan in order to determine that the agricultural practices meet the regulations set forth above.

3.4. Non-agricultural Activities on Long Term Agricultural Land. The use of agricultural land for development that does not meet the definition of agricultural activities, including the conversion of agricultural land to non-agricultural uses, shall be consistent with the environment designation and the general and specific regulations applicable to the proposed use, and shall result in no net loss of ecological functions associated with the shoreline.

19.600.115 Aquaculture

A. Environment Designations Permit Requirements

Where aquaculture is proposed in the following upland designations, the identified permit requirements shall apply. Where proposed in the adjacent aquatic designation, the corresponding upland designation shall be used to determine permit requirements:

1. **Mining**, Shoreline Residential, Urban Conservancy, Rural Conservancy, and Natural: Except as otherwise stated in this section, an SDP shall be required for new aquaculture activities that meet the definition of substantial development under the Shoreline Management Act and this Shoreline Master Program. Exempt if definition of substantial development in Section 19.150.770 is not met.

2. Natural: A CUP shall be required where the proposal requires a new structure or facilities.

3. Geoduck aquaculture in all designations:
   a. A CUP shall be required for all new commercial geoduck aquaculture and an administrative CUP for existing aquaculture being converted to commercial geoduck aquaculture;
   b. An SDP shall be required for the planting, growing and harvesting of farm-raised geoducks only if the specific project or practice causes substantial interference with normal public use of the surface waters.
   c. Wildstock geoduck harvest associated with the state and tribal co-managed geoduck fishery is not aquaculture. Since a fishery does not constitute development under this Program, it is not subject to its regulations.
4. Certain aquaculture developments and supplemental wild stock seeding may be exempt from SDP requirements pursuant to the exemption criteria at Section 19.500.100(C) of this Program. Such activities shall also comply with all state and federal requirements, including but not limited to Department of Health certification and license, or Shellfish Import or Shellfish Transfer permits, where applicable.

B. Application Requirements

In addition to the minimum application requirements in Section 19.500.105(C), aquaculture applications shall include the following information if not already provided in the local, state or federal permit applications. Where requested information is not applicable to a specific proposal, the application shall not be required to include all items listed under this section as long as it is demonstrated why the information does not apply, with concurrence from the Department.

1. A site plan, including:
   a. The perimeter of the proposed aquaculture operation area;
   b. Existing bathymetry depths based on mean lower low water (MLLW datum);
   c. Adjacent upland use, vegetation, presence of structures, docks, bulkheads and other modifications;
   d. Areas where specific substrate modification will take place or structures will be constructed or installed;
   e. Access provisions for marine or vehicle traffic, processing structures or facilities; and
   f. Location of storage or processing structures or facilities.

2. A baseline description of existing and seasonal conditions, including best available information. Where applicable to the subject proposal, the following should be included if already part of information submitted for another federal or state agency. Note: information regarding wind conditions, current flows and flushing rates (items 3-5) will generally not be applicable to shellfish aquaculture applications.
   a. Water quality;
   b. Tidal variations;
   c. Prevailing storm wind conditions;
   d. Current flows at each tidal cycle;
   e. Flushing rates;
   f. Littoral drift;
   g. Sediment dispersal, including areas of differing substrate composition;
   h. Areas of aquatic, intertidal and upland vegetation complexes; a vegetation habitat survey (see Section 8.10, Biological and Habitat Surveys) must be conducted according to the most current WDFW eelgrass and macroalgae survey guidelines;
   i. Aquatic and benthic organisms present, including forage fish, and spawning and other lifecycle use of, or adjacent to, the site;
   j. Probable direct, indirect and cumulative impacts to items 2.a.-i. above; and
   k. Visual assessment, including photo analysis / simulation of the proposed activity demonstrating visual impacts within 1,500 feet of the proposed project site. Where predator exclusion devices are proposed, the assessment shall include an analysis of visual impacts of proposed predator exclusion devices at mean high and mean low tides.

3. An operational plan, which includes the following, when applicable should be included if already part of information submitted for another federal or state agency:
Draft SMP Chapter 19.600 – 03/04/20 Planning Commission Meeting Version

a. Species, and quantity to be reared;
b. Source of aquatic product;
c. Implementation methods, including density, schedule, phasing options, time of day, and anticipated lighting and noise levels;
d. Number of employees/workers necessary for the project, including average and peak employment;
e. Methods and location of waste disposal and sanitation facilities;
f. Methods for planting and harvest;
g. Methods for predation control, including types of predator exclusion devices;
h. Food and equipment storage;
i. Anticipated use of any feed, herbicides, antibiotics, vaccines, growth stimulants, antifouling agents, or other chemicals and an assessment of predicted impacts;
j. Food and equipment storage;
k. A schedule for water quality monitoring, where required; and
l. Other measures to achieve no net loss of ecological functions consistent with the mitigation sequence described in WAC173-26-201(2)(e).

4. Other applications and reports, when applicable or requested depending on site specific details determined during permit review, to ensure compliance with permit conditions, which may include:

a. An accepted Washington Department of Natural Resources lease application, including a waiver of preference rights to access for navigation from the upland property owner, if applicable;
b. An accepted Washington Department of Ecology National Pollutant Discharge Elimination System (NPDES) permit, if applicable;
c. An accepted Washington Department of Health beach certification number;
d. An accepted WDFW aquatic farm permit, and/or fish transport permit;
e. Water quality studies;
f. Reports on solids accumulation on the bottom resulting from the permitted activity along with its biological effects;
g. Report on growth, productivity, and chemical contamination of shoreline plants and animals within or adjacent to the proposed site;
h. Noise level assessments, including mitigation measures to ensure compliance with Chapter 10.36 & 10.38 TCC; and/or

C. Development Standards

1. General Standards.

a. Aquaculture is dependent on the use of the water area and, when consistent with control of pollution and prevention of damage to the environment, shall be a preferred use of the water area.
b. Proposed residential subdivisions and other land uses and developments which may impact aquaculture operations shall provide facilities to prevent any adverse water quality impacts to such operations.
c. Site preparation and construction in the vicinity of aquaculture operations shall not result in off-site erosion, siltation, or other reductions in water quality.
b. When a shoreline substantial development or conditional use permit is issued for a new aquaculture use or development, that permit shall apply to the initial siting, construction, and operation of the aquaculture facility.

Commented [AD14]: WAC 173-26-241(3)(b)(i)(A): Local government should consider local ecological conditions and provide limits and conditions to assure appropriate compatible types of aquaculture for the local conditions as necessary to assure no net loss of ecological functions.

Commented [AD15]: WAC 173-241(3)(b)(i)(A) Aquaculture is dependent on the use of the water area and, when consistent with control of pollution and prevention of damage to the environment, is a preferred use of the water area.

Commented [AD16]: 173-26-241(B)(i)(D): Local government should ensure proper management of upland uses to avoid degradation of water quality of existing shellfish areas.
and planting or stocking of the facility or farm. Authorization to conduct such activities shall be valid for a period of five years with a possible extension per Section 19.500.105(H) of this Program. After an aquaculture use or development is established under a shoreline permit, continued operation of the use or development, including, but not limited to, maintenance, harvest, replanting, restocking or changing the culture technique shall not require a new or renewed permit unless otherwise provided in the conditions of approval, or if required pursuant to permit revision criteria in WAC 173-27-100 or this Program. Changing of the species cultivated shall be subject to applicable requirements, and shall circulate the monitoring and adaptive management plan. Upon approval, the plan shall become a condition of project approval.

An aquaculture facility shall be maintained in a fashion that serves to minimize visual impacts (for example: high bank environments, shorelines without residential development), and in no case shall the height exceed six feet. Height limitations do not apply to materials and apparatus removed from the site on a daily basis. Materials that are not necessary for the immediate and regular operation of the facility shall not be stored waterward of the OHWM.

Aquaculture structures and equipment used on tidelands below ordinary high water shall be of sound construction, with the owners’ identifying marks where feasible, and shall be so maintained. Abandoned or unsafe structures and/or equipment shall be promptly removed or repaired by the owner.

No processing of any aquaculture product, except for the sorting and culling of the cultured organism and the washing or removal of surface materials or organisms after harvest, shall occur in or over the water unless specifically approved by permit. All other processing and related facilities shall be located on land and shall be subject to the regulations for Commercial) and Industrial Uses (Section 24.10.100), in addition to the provisions of this section.

No garbage, wastes or debris shall be allowed to accumulate at the site of any aquaculture operation, except for in proper receptacles.
1. All floating and submerged aquaculture structures and facilities in navigable waters shall be marked in accordance with U.S. Coast Guard requirements.

m. The rights of treaty tribes to aquatic resources within their usual and accustomed areas are addressed through direct coordination between the applicant/proponent and the affected tribe(s). Thurston County will notify affected tribes of new shoreline permit applications utilizing the applicable notification process in Title 20.60 TCC.

n. In order to avoid or limit the ecological and aesthetic impacts from aquaculture siting and operations, predator exclusion devices shall meet the following standards the following shall apply:
   i. **Predator exclusion devices** shall be firmly attached or secured so as not to become dislodged.
   ii. **Predator exclusion devices** shall blend with the natural environment.
   iii. Aquaculture operators shall routinely inspect and maintain predator exclusion devices.
   iv. **Predator exclusion devices** such as rubber bands, small nets, and area netting can be dislodged and pose a hazard to birds, marine mammals, and other wildlife and domestic animals, and thus are subject to Thurston County Public Nuisance regulations (Chapter 10 TCC).
   v. **Predator exclusion devices** shall be removed as soon as they are no longer needed to perform protective functions.
   vi. Predator exclusion methods shall not be designed to intentionally kill or injure wildlife. Predator exclusion methods shall comply with federal and state regulations (Chapter 10 TCC).

   o. **When determined necessary to minimize aesthetic and habitat impacts of large-scale projects, the County may require a phased approach to operation. This includes planting and harvesting areas on a rotational basis within the same tideland parcel.**

   p. **Where aquaculture occurs on state owned aquatic lands, the project proponent shall contact and adhere to Washington Department of Natural Resources and adhere to that agency’s requirements, including obtaining an aquatic lands lease as required.**


a. In addition to the general development standards above, commercial geoduck aquaculture shall only be allowed where sediments, topography, land and water access support geoduck aquaculture operations without significant clearing or grading.

b. All permits shall take into account that commercial geoduck operators have a right to harvest geoduck once planted.

c. All subsequent cycles of planting and harvest shall not require a new CUP, subject to WAC 173-27-100.

d. A single CUP may be submitted for multiple sites within an inlet, bay or other defined feature, provided the sites are all under control of the same applicant and within the Program’s jurisdiction.

e. Commercial geoduck aquaculture workers shall be allowed to accomplish on-site work during low-tides, which may occur at night or on weekends. Where such activities are necessary, noise and light impacts to nearby residents shall be mitigated to the greatest extent practicable.

3. Additional Standards for Net Pens. Fish net pens and rafts shall meet the following criteria:
working with Ecology on this section

a. Fish net pens shall meet, at a minimum, state approved administrative guidelines for the management of net pen cultures. In the event there is a conflict in requirements, the more restrictive shall prevail.

b. Alternative facilities and technologies that reduce ecological and aesthetic impacts shall be preferred to traditional floating net pens.

c. Anchors that minimize disturbance to substrate, such as helical anchors, shall be employed.

d. Net pen facilities shall be located no closer than 1,500 feet from the OHWM, unless a specific lesser distance is determined to be appropriate based upon a visual impact analysis or due to potential impacts to navigational lines.

e. Net cleaning activities shall be conducted on a frequent enough basis so as not to violate state water quality standards.

f. In the event of a significant fish kill at the site of the net pen facility, the facility operator shall submit a timely report to the Thurston County Environmental Health Section and the Thurston County Department of Resource Stewardship stating the cause of death and shall detail remedial action(s) to be implemented to prevent reoccurrence.

g. New floating net pens shall only be permitted for species native to Washington state be prohibited in Thurston County’s South Puget Sound jurisdictional area until updates to Ecology’s guidance on managing commercial finfish aquaculture Recommendations for Managing Commercial Finfish Aquaculture is completed and can be reviewed by county staff to evaluate possible environmental benefits and impacts.

h. Existing net pen operations with nonnative species may convert to native species cultivation at the expiration of their current lease, subject to Washington Department of Natural Resources permit approval.

19.600.120 Barrier Structures and In-stream Structures

A. Environment Designations Permit Requirements

Where barrier structures or in-stream structures are proposed in the following upland designations, the following permit requirements shall apply. Where proposed in the adjacent aquatic area, the corresponding upland designation shall be used to determine permit requirements.

1. Natural: Prohibited.

2. Mining, Shoreline Residential, Urban Conservancy, Rural Conservancy: CUP, except as otherwise stated in this section.

3. All designations: An SDP shall be required for barrier structures or in-stream structures that have ecological restoration as the primary purpose.

B. Application Requirements

1. In addition to the general permit requirements, applications for breakwaters, jetties and groins shall include the following information:

   a. Reason for the project;

   b. Type of construction;

   c. Method of construction;

   d. Direction of net long-shore drift;
c. Location of the barrier structure; and  
f. Notification of affected property owners, to include at minimum all property owners downdrift of the project in the drift cell, unless reviewed and approved otherwise by the County.

2. In addition to the general permit requirements, applications for weirs and other in-stream structures shall contain, at a minimum, the following:
   a. Hydrogeological Report (see Section 19.700.125), prepared by a licensed professional engineer, which sufficiently describes the project’s effects on stream-way hydraulics, including potential for re-direction of the normal flow of the affected stream.  
   b. Habitat surveys, prepared by a professional biologist consistent with Section 19.700.145, which sufficiently describes the project’s effects on fisheries and wildlife resources.  
   c. Provision for erosion control, and protection of water quality and fishery and wildlife resources during construction.  
   d. Long-term management plans, which describe, in sufficient detail, provisions for protection of in-stream resources during construction and operation. The plan shall include a means for monitoring success.

C. Development Standards

1. When located waterward of the OHWM, barrier structures and other in-stream structures shall be allowed only where necessary to support:
   a. Water-dependent uses.  
   b. Public access.  
   c. Public facilities or utilities; and/or  
   d. Existing or restored natural features, with special emphasis on protecting and restoring priority habitats and species, but only where part of an approved restoration plan.

2. Structures shall be designed to protect critical areas, shoreline processes and ecological functions, fish and wildlife passage, natural character/scenery, and cultural resources, and shall provide for mitigation according to the sequence defined in Sections 19.300.105 (Critical Areas and Ecological Protection) and 19.400.110 (Mitigation) of this Program.

3. Structures shall be the minimum size necessary to achieve the intended purpose.

4. Floating breakwaters shall be utilized instead of solid fill breakwaters, except where proven infeasible.

5. Consideration shall be given to avoiding or minimizing land use conflicts to properties adjacent to the proposed site, whether upstream/up-drift or downstream/down-drift.

6. Barrier and other in-stream structures shall not be constructed with waste materials such as demolition debris, derelict vessels, tires, concrete or any other materials which might have adverse toxic or visual impacts on shoreline areas.

7. Barrier and other in-stream structures shall be readily discernible under normal daylight conditions to the unaided eye at a minimum distance of one hundred yards and must be marked for night-time visibility.

Commented [AD34]: WAC 173-26-231(3)(d): Breakwaters, jetties, groins, and weirs located waterward of the ordinary high-water mark shall be allowed only where necessary to support water-dependent uses, public access, shoreline stabilization, or other specific public purpose.

Commented [AD35]: WAC 173-26-231(3)(d): Breakwaters, jetties, groins, and weirs shall be designed to protect critical areas and shall provide for mitigation according to the sequence defined in WAC 173-26-201 (2)(e).

Commented [AD36]: WAC 173-26-231(2)(b): [SMPs] shall implement principles to Reduce the effects of shoreline modifications, and, as much as possible, limit shoreline modifications in number and extent.
19.600.125 Boating Facilities

Boating facilities are public and private mooring structures and related services serving five or more boats, including piers, docks, buoys, floats, marinas, and facilities for the use of boat launching, boat storage, or for the service and maintenance of pleasure or commercial craft. This section applies to such facilities. Mooring structures and activities for fewer than five boats are addressed in section 19.600.160.

A. Environment Designations Permit Requirements

Where boating facilities are proposed in the following upland designations, the identified permit requirements shall apply. Where proposed in the adjacent aquatic area, the corresponding upland designation shall be used to determine permit requirements:

1. Natural, Mining—Prohibited
2. Rural Conservancy, Urban Conservancy, Shoreline Residential:
   a. SDP for boating facilities designed for 5-9 vessels or less;
   b. CUP for marinas (10 or more vessels) and buoy fields for 10 or more vessels.

B. Application Requirements

In addition to the general permit requirements, the applicant shall be required to submit the following information:

1. A study of water quality, water circulation and flushing;
2. A survey of littoral drift and shoreform processes;
3. A benthic and habitat study;
4. A petroleum handling and storage management plan;
5. An emergency management plan, to include fire protection and hazard response;
6. A visual impact assessment;
7. Waste and sewage disposal plan;
8. Speed limits;
9. Noise levels;
10. Lighting and signage;
11. Size, scale, and building materials;
12. Public or private use;
13. Parking and circulation;
14. Distance to the nearest boating facility
C. Development Standards

1. General Regulations.
   a. All boating facilities must conform to the requirements for Mooring Structures (Section 19.600.160).
   b. Dredging for boating facilities shall conform to the requirements for Dredging and Dredge Disposal (Section 19.600.135).
   c. Boating facilities and their associated and accessory uses shall result in no net loss of shoreline ecological functions.
   d. Boating facilities shall be located, designed, and maintained to be compatible with abutting land uses and the prevailing community character to the greatest extent feasible. Aesthetic impacts must be avoided, or mitigated where avoidance is not feasible.
   e. Boating facilities must meet applicable federal and state health, safety, and welfare requirements. This shall include, but not be limited to, the Thurston County Board of Health Sanitary Code (Article IV), and the Thurston County Board of Health Sanitary Code (Article VI). In addition, notice of permit application shall be provided to the Washington State Department of Health in order to ensure consistency with state health regulations for shellfish harvest.
   f. Boating facilities shall protect the rights of navigation.
   g. Boating facilities shall avoid impacts to littoral drift. Where impacts cannot be avoided, mitigation shall be required.
   h. All non-water-dependent structures shall be located landward of the OHWM.

2. Marinas.
   a. In evaluating an application for a marina, consideration shall be given to water quality, water circulation and flushing, aquatic life, petroleum handling and storage, fire codes, public access and compatibility with other uses.
   b. New marinas shall incorporate public access pursuant to WAC 173-26-221(4). Examples of public access may include pocket beaches, fishing piers, viewing platforms and transient moorage slips.
   c. Accessory parking, transportation facilities, and commercial development shall meet the requirements of Sections 19.600.180 and 19.600.130, respectively.
   d. Marinas shall provide an operational plan. At a minimum, the operational plan shall address all of the following:
      i. Adequate facilities and operational procedures for fuel handling and storage in order to prevent accidental spillage.
      ii. Facilities, equipment and established procedures for the containment, recovery, and mitigation of spilled sewage, petroleum and other hazardous materials.
      iii. Signs concerning the following matters where they are readily visible to all marina users:
         1. Regulations pertaining to handling and disposal of waste, sewage, or other toxic materials;
         2. Regulations prohibiting the disposal of fish or shellfish wastes, scrapfish, viscera or unused bait in or near the marina;
         3. Location of all public access facilities and pump-out devices.
      iv. Garbage or litter receptacles, including provisions for recycling waste shall be provided and maintained by the marina operator at several locations convenient to users.
   e. Additional standards for marinas.
Draft SMP Chapter 19.600 – 03/04/20 Planning Commission Meeting Version

19.600.130 Commercial Development

A. Environment Designations Permit Requirements

Where commercial development is proposed in the following upland or aquatic designations, the identified permit requirements shall apply:

1. Natural- Prohibited

2. Urban Conservancy, Rural Conservancy, and Shoreline Residential Mining:
   a. SDP for Water-oriented commercial activities, SDP;
   b. Prohibited for Non-water-oriented uses, Prohibited, except CUP for uses described in Section 19.600.130(B)(8)

Commented [AD45]: WAC 173-26-241(3)(d): Commercial development. Master programs shall first give preference to water-dependent commercial uses over nonwater-dependent commercial uses; and second, give preference to water-related and water-enjoyment commercial uses over nonwater-oriented commercial uses.
3. Aquatic: Prohibited, unless the activity is water-dependent or a necessary accessory appurtenance to a use allowed in the adjoining upland designation, then a CUP.

B. Development Standards

1. Commercial development shall result in no net loss of shoreline ecological functions or have significant adverse impact to other shoreline uses, resources and values provided for in RCW 90.58.020, such as navigation, recreation and public access.

2. Commercial developments shall be permitted on the shoreline in descending order of preference. The applicant shall demonstrate that a more preferred use is not feasible when proposing a less preferred use:
   a. Water-dependent uses;
   b. Water-related uses;
   c. Water-enjoyment uses;
   d. Non-water-oriented uses that include substantial opportunities for public access and subject to a CUP.

3. Commercial development shall not significantly impact views from upland properties, public roadways, or from the water.

4. The design and scale of a commercial development shall be compatible with the shoreline environment. The following criteria will be used to assess compatibility:
   a. Building materials
   b. Site coverage
   c. Height
   d. Density
   e. Lighting, signage, and landscaping
   f. Public access
   g. Visual assessment

5. The County shall consider public access and ecological restoration as potential mitigation of impacts to shoreline resources and values for all water-related or water-dependent commercial development, unless such improvements are demonstrated to be infeasible or inappropriate. Public access shall be provided consistent with Section 19.400.145 of this Master Program. In-kind mitigation shall be determined infeasible prior to utilizing out-of-kind mitigation.

6. Non-water-dependent commercial uses shall not be allowed over water except in existing structures or in the limited instances where they are auxiliary to and necessary in support of water-dependent uses.

7. Parking shall be located upland of the commercial use and designed to minimize adverse visual impacts to the shoreline. Over-water parking is prohibited.

8. Non-water-oriented commercial uses are prohibited unless:
   a. The use is on land designated commercial by the Thurston County Comprehensive Plan and existing on the effective date of this Program;
   b. The use is on land designated commercial by the Thurston County Comprehensive Plan and is physically separated from the shoreline by another property or public right-of-way; or

Commented [AD46]: WAC 173-26-241(3)(d): SMPs shall assure that commercial development will not result in a net loss of shoreline ecological functions or have significant adverse impact to other shoreline uses, resources and values provided for in RCW 90.58.020 such as navigation, recreation and public access.

Commented [AD47]: See reference to WAC 173-26-241(3)(d) above in 19.600.130(A)

Commented [AD48]: Intended to protect public’s use/enjoyment of shorelines. WAC 173-26-221(4) says SMPs should provide standards for dedication and improvement of public access in developments for water-enjoyment uses. Also see WAC 173-26-241(2)(a)(ii): Ensure that all SMP provisions concerning proposed development of property are established, as necessary, to protect the public’s health, safety, and welfare, as well as the land and its vegetation and wildlife, and to protect property rights while implementing the policies of the [SMA].

Commented [AD49]: WAC 173-26-241(3)(d): Master programs should require that public access and ecological restoration be considered as potential mitigation of impacts to shoreline resources and values for all water-related or water-dependent commercial development unless such improvements are demonstrated to be infeasible or inappropriate.

Commented [AD50]: WAC 173-26-241(3)(d): Nonwater-dependent commercial uses should not be allowed over water except in existing structures or in the limited instances where they are auxiliary to and necessary in support of water-dependent uses.
c. The use is part of a mixed-use project that includes water-dependent uses and provides a significant public benefit with respect to the Act’s objectives, such as providing ecological restoration and public access. Water-dependent components of the project and ecological restoration and access shall be improved prior to occupancy; or
d. The use is on a site where navigability is severely limited and the use would provide a significant public benefit with respect to the Act’s objectives, such as providing public access and ecological restoration.

Non-water-oriented commercial uses meeting these criteria must obtain a CUP.

C. Redevelopment

1. When commercial redevelopment involves relocating or expanding the existing structure, shoreline restoration or mitigation shall be a condition of approval (see Appendix B). Restoration may include, but is not limited to:
   a. Moving the structure away from the shoreline;
   b. Removing any shoreline armoring or replacing hard with soft armoring;
   c. Riparian vegetation restoration, including removing invasive and planting natives;
   d. Stormwater retrofits to implement Low Impact Development.

2. When commercial redevelopment involves relocating or expanding the structure, public access shall be a condition of approval, unless infeasible due to health or safety issues. Public access may include, but is not limited to:
   a. Maintaining and enhancing current public access, if existing;
   b. Connecting a trail to existing public access on adjacent property;
   c. Providing for visual access to the shoreline.

19.600.135 Dredging and Dredge Disposal

A. Environment Designations Permit Requirements

Where dredging is proposed in the following upland designations, the identified permit requirements shall apply. Where proposed in the adjacent aquatic designation, the corresponding upland designation shall be used to determine permit requirements.

Dredging & Dredge Disposal:

1. Natural: Prohibited, unless for purposes of ecological restoration (as defined in this section), then with a CUP.
2. Mining, Shoreline Residential, Urban Conservancy and Rural Conservancy: CUP, unless for purposes of ecological restoration (as defined in this section), then with a SDP.
3. All Designations: Dredging waterward of the OHWM for the primary purpose of obtaining fill material shall not be permitted, except as allowed under Section 19.600.135(C)(5), below.
B. Application Requirements

In addition to the general permit requirements, applications for dredging shall include the following information:

1. An analysis of materials to be dredged, including a habitat survey (Section 19.700.145) and sediment analysis;
2. Time of dredging;
3. Method of dredging and disposal, including a description of water quality best management practices;
4. Location and stability of bedlands adjacent to proposed dredging area;
5. Location, size, capacity and physical characteristics of spoils disposal area;
6. Quantity of material to be removed as specified in SEPA application and/or grading permit;
7. An explanation of why the dredging is necessary.

C. Development Standards – working with Ecology on this section

1. Dredging and dredge material disposal shall only be allowed when the purpose is consistent with those listed in WAC 173-26-231 (3)(f), and conducted in a manner which avoids and minimizes significant ecological impacts. Impacts which cannot be avoided and minimized shall be mitigated in a manner that assures no net loss of shoreline ecological functions.

2. Dredging for the purpose of establishing, expanding, relocating or reconfiguring navigation channels and basins shall be allowed when necessary for assuring safe and efficient accommodation of existing navigational uses and then only when significant ecological impacts are minimized and when mitigation is provided.

3. Dredging for the purpose of ecological restoration may be allowed when the project is primarily serving to restore degraded ecological functions or ecosystem-wide processes.

4. Maintenance dredging of established navigation channels and basins shall be restricted to maintaining previously dredged and/or existing authorized location, depth, and width. Such activities shall be exempt from permit procedures when such proposals meet the criteria for normal maintenance or repair (Section 19.500.100(C)(3)(b) & WAC 173-27-040(2)(b)).

5. Dredging waterward of the OHWM for the primary purpose of obtaining fill material shall not be allowed, except when the material is necessary for a project to restore ecological functions waterward of the OHWM. Such project shall either be associated with a Model Toxics Control Act (MTCA) or Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) habitat restoration project, or, if approved through a CUP, a significant habitat enhancement project.

6. Deposition of dredge material below ordinary high water shall be allowed only at those Puget Sound dredge disposal sites approved by the Dredged Material Management Program (DMMP) representing the U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, Washington Department of Ecology, and Washington Department of Natural Resources.
7. Disposal of dredge material on shorelands or wetlands within a river’s or stream’s channel migration zone shall not occur, except as authorized by CUP as a part of a shoreline restoration project.

8. Disposal of contaminated dredge materials, not suitable for open water disposal, and otherwise regulated by Section 404 of the Federal Clean Water Act, shall occur only at permitted solid waste or dangerous waste disposal facilities.

19.600.140 Fill

A. Environment Designations Permit Requirements

Where fill is proposed in the following upland designations, the identified permit requirements shall apply. Where proposed in the adjacent aquatic designation, the corresponding upland designation shall be used to determine permit requirements.

1. Natural: Prohibited, except for restoration purposes as noted below;

2. Mining, Shoreline Residential, Urban Conservancy, Rural Conservancy;
   a. CUP for fill waterward of the OHWM for any use except ecological restoration.
   b. SDP for fill landward of the OHWM.

3. All Designations: SDP if for ecological restoration where restoration is the primary purpose for the activity.

4. All Designations: Any fill quantity in critical areas (and their buffers) or fill quantity in excess of 50 cubic yards outside of critical areas shall also require a Grading Permit pursuant to Title 20, 21, 22, and 23 TCC as now or hereafter amended.

B. Application Requirements

In addition to general permit requirements, applications for fill shall include, but not be limited to, the following information:

1. Physical, chemical, and biological character of fill materials;

2. Source of fill material;

3. Method of placement and compaction;

4. Type of proposed surfacing and stormwater control devices;

5. Method of perimeter erosion control;

6. Proposed use of fill area;

7. Location of fill relative to natural and/or existing drainage patterns.
C. Development Standards

1. Fill materials shall be sand, gravel, soil, rock or similar material. Use of polluted dredge spoils or other solid or dangerous wastes as defined by the Thurston County Public Health and Social Services Department is prohibited.

2. Fill within shoreline jurisdiction shall be avoided to the extent feasible. Where necessary, fill in shoreline jurisdiction shall be located, designed, and constructed to protect shoreline ecological functions and ecosystem-wide processes, including channel migration.

3. Erosion control measures shall be implemented pursuant to Title 15 TCC (Stormwater Standards).

4. Fill shall be designed and reviewed for avoidance of water-quality impacts in accordance with local, state and federal regulations.

5. Fill shall only be allowed below the OHWM for:
   a. Water-dependent uses,
   b. Public access,
   c. Cleanup and disposal of contaminated sediments as part of an interagency environmental cleanup plan,
   d. Mitigation action,
   e. Environmental restoration,
   f. Beach nourishment or enhancement projects,
   g. The expansion or alteration of existing transportation facilities of statewide importance located along the shoreline, and only upon demonstration that alternatives to fill are not feasible.

6. Fill shall not be used to create land to serve residential development.

7. Fill shall not be used to create land to serve non-water dependent commercial development.

8. If archaeological resources are uncovered during excavation, developers and property owners must immediately stop work and notify Thurston County, the Department of Archaeology and Historic Preservation, and affected Indian tribes. Permits may be conditioned after review by a professional archaeologist.

19.600.145 Forest Practices/Timber Harvest

A. Environment Designations Permit Requirements

Forest practices conducted under a Forest Practices Permit (Class I, II, III and IV-Special) from the Washington Department of Natural Resources shall not be regulated by this Program and shall not require a local shoreline permit. However, forest practice conversions and other Class IV-General forest practices where there is a likelihood of conversion to non-forest uses, and timber harvest within Shorelines of Statewide Significance shall be regulated by this Program. Where such forest practices are proposed in the following designations, the identified permit requirements shall apply.

1. Natural: CUP

2. Rural Conservancy: SDP

Commented [AD60]: WAC 173-26-231(3)(c): Fills waterward of the ordinary high-water mark shall be allowed only when necessary to support: Water-dependent use, public access, cleanup and disposal of contaminated sediments as part of an interagency environmental clean-up plan, disposal of dredged material considered suitable under, and conducted in accordance with the dredged material management program of the department of natural resources, expansion or alteration of transportation facilities of statewide significance currently located on the shoreline and then only upon a demonstration that alternatives to fill are not feasible.

Commented [AD61]: WAC 173-26-221(1)(c): Standards. Local shoreline master programs shall include policies and regulations to protect historic, archaeological, and cultural features and qualities of shorelines and implement the following standards. A local government may reference historic inventories or regulations. Contact the department of archaeology and historic preservation and affected Indian tribes for additional information.

   (i) Require that developers and property owners immediately stop work and notify the local government, the department of archaeology and historic preservation and affected Indian tribes for additional information.

   (ii) Require that permits issued in areas documented to contain archaeological resources require a site inspection or evaluation by a professional archaeologist in coordination with affected Indian tribes.

Commented [AD62]: WAC 173-26-241(3)(c): A forest practice that includes activities other than timber cutting may be a development under the act and may require a SDP. In addition, local governments shall, where applicable, apply this chapter to Class IV-General forest practices where shorelines are being converted or are expected to be converted to nonforest uses.

Commented [AD63]: Unsure if this is a WAC requirement.
3. Urban Conservancy, Shoreline Residential, Mining:
   a. Prohibited for Commercial Forestry;
   b. SDP for Class IV-General permit.

4. All designations: CUP for exceptions to Shorelines of Statewide Significance standards in section 19.600.145(C)(4) below.

B. Application Requirements

In addition to the general permit requirements of this Program, a Thurston County Timber Harvest Permit (Class IV General, Class III Conversion Option Harvest Plan, and timber harvest within Shorelines of Statewide Significance) shall be required. This includes all other application requirements as outlined in Chapter 17.25 TCC (Forest Lands Conversion).

C. Development Standards

1. Forest practices within shoreline jurisdiction shall comply with the requirements of the Forest Practices Act (Ch. 76.09 RCW) and the Forest and Fish Report (United States Fish and Wildlife Service et al. 1999). The following standards shall apply to those activities subject to this Program, including forest practices conducted under a Class IV-General forest practice permit or Class III-Forest Practices conversion option harvest plan, and timber harvest activities conducted within Shorelines of Statewide Significance.

2. Timber Harvest Permit activity shall assure no net loss of shoreline ecological functions and shall maintain ecological quality of the watershed’s hydrologic system.

3. Timber Harvest Permit activity in all shoreline areas shall comply with the policies and regulations outlined in this Program, Chapter 17.25 TCC (Forest Lands Conversion) and Title 15.05 TCC (Storm Water Standards) for silt and erosion control.

4. With respect to timber situated within the shoreline jurisdiction for shorelines of statewide significance, only selective commercial timber cutting shall be allowed provided that no more than thirty percent of the merchantable trees may be harvested in any ten year period of time, further provided that:
   a. Other timber harvesting methods may be permitted in those limited instances where the topography, soil conditions or silviculture practices necessary for regeneration render selective logging ecologically detrimental; and
   b. Clear cutting may occur when timber harvest is solely incidental to the preparation of land for other uses authorized by this chapter as described in paragraph 7 below.

5. Exceptions to the standards provided in RCW 90.58.150 as stated in Section 19.600.145(C)(4) shall require a CUP.

6. Failure to apply for a local Class IV Forest Practices Permit, when required, will result in a six-year moratorium on any subsequent development proposals on the subject parcel.

7. When timberland is to be converted to another use, such conversion shall be clearly indicated on the Forest Practices application. Shoreline buffers shall be established and maintained for all Type IV Forest Practices Permits in accordance with the proposed shoreline use. Failure to establish shoreline buffers or declare intent to convert on the application shall provide grounds for the denial of subsequent development proposals for a period of six years from the date of the Forest Practices application approval (RCW 76.09.060(3)(d)).
8. Timber harvest activities subject to this Program shall not be permitted until local plat approval or other applicable land use authorization has been given, and any required shoreline permits have been issued for the land division(s) or intended use(s) where applicable.

9. Hazard tree removal or view tree limbing: Where a threat to human life or property in demonstrated, or where view-thinning is allowed in accordance with the Vegetation Conservation Buffer standards in Section 19.400.120, the Department may allow removal or trimming of hazard trees or limbing of view trees within shoreline jurisdiction. Requests for tree removal shall be reviewed by the Department in accordance with the following criteria:
   a. For hazard trees, tree removal shall be the minimum necessary to balance protection of the critical area or shoreline buffer with protection of life and property. For view trees, tree limbing shall be the minimum necessary in accordance with the Vegetation Conservation Buffer standards of Section 19.400.120.
   b. The critical area or shoreline buffer shall be replanted as determined by the Department. Except where determined otherwise, a replanting ratio of 3:1 (planted: removed) shall be a standard requirement.
   c. The Department shall coordinate with the property owner and WDFW as determined necessary to assure habitat protection. Habitat needs may require leaving the fallen tree within the buffer area or leaving a high stump for wildlife habitat.
   d. The Department may require the applicant to consult with a professional forester or a certified arborist prior to tree removal.
   e. The Department may require a site visit to review the proposal, subject to applicable fee requirements in the Thurston County Fee Schedule.

19.600.150 Industrial Development

A. Environment Designations Permit Requirements
Where industrial development is proposed in the following designations, the identified permit requirements shall apply.
   1. Natural and Rural Conservancy: Prohibited
   2. Urban Conservancy and Shoreline Residential: CUP for water-oriented industries. Non-water-oriented industrial development shall be prohibited.
   3. Mining: SDP for water-oriented industries. Non-water-oriented industrial development shall be prohibited, except as specified in Section 19.600.150(B) below.
   4. Aquatic: Prohibited, unless water-dependent or allowed in the adjoining upland designation, then a CUP.

B. Development Standards
   1. When allowed, industrial development shall be located, designed and constructed in a manner that assures no net loss of shoreline ecological functions, resources and values.
   2. Water-dependent, water-related, and non-water oriented industrial uses are permitted where allowed by zoning and this Program. The following preferential order shall be considered by the County when evaluating SMP amendments and determining compliance of shoreline permits:

Commented [AD67]: WAC 173-26-241(3)(f): Where industrial development is allowed, master programs shall include provisions that assure that industrial development will be located, designed, or constructed in a manner that assures no net loss of shoreline ecological functions and such that it does not have significant adverse impacts to other shoreline resources and values.
a. The industrial use is water-dependent, consistent with the Act and this Program. The County may require an applicant to provide documentation about the characteristics of the development to confirm the proposal’s water-dependent nature.

b. The industrial use is water-related, consistent with the Act and this Program. The County may require an applicant to provide documentation about the characteristics of the development to confirm the proposal’s water-related nature.

c. The industrial use is non-water-oriented and consistent with the exceptions and conditions in Section 19.600.150(B)(3).

3. New non-water-oriented industrial development shall be prohibited in shoreline jurisdiction except when:

   a. The area is designated for industrial use by the Thurston County Comprehensive Plan and the site is physically separated from the shoreline by another property or public right of way; or

   b. The use is part of a mixed-use project that includes water-dependent uses and provides a significant public benefit with respect to the Act’s objectives such as providing ecological restoration and public access. Any such public access shall be improved prior to occupancy; or

   c. Navigability is severely limited at the proposed site; and the industrial use provides a significant public benefit with respect to the Act’s objectives, such as providing public access and ecological restoration.

4. Industrial development must consider incorporating public access as mitigation for impacts to shoreline resources and values unless public access cannot be provided in a manner that does not result in significant interference with operations or hazards to life or property.

5. Where industrial use is proposed for location on land in public ownership, public access shall be required.

6. Industrial development and redevelopment shall locate, when feasible, where environmental cleanup and restoration of the shoreline area can be incorporated.

7. Where industrial uses are allowed, Chapter 20.28 TCC (Section 20.28.020 Permitted Uses) shall apply to new or expanded industrial development.

8. Buffers shall not be used for storage of industrial equipment or materials, nor for waste disposal, but may be used for outdoor recreation if consistent with public access and other provisions of this Program.

9. Applications for water-oriented facilities for processing, manufacturing, and storage of natural resource products, including log storage, shall include provisions which address:

   a. Navigation,
   b. No net loss of shoreline ecological functions,
   c. Impacts to public access,
   d. Aesthetics.
10. Boat yards and similar ship-building facilities shall comply with the mandatory best management practices and other provisions of the Boatyard General Permit issued through Ecology, as now or hereafter amended.

19.600.155 Mining

A. Environment Designations Permit Requirements
Where mining is proposed in the following designations, the identified permit requirements shall apply.

1. Natural: Prohibited
2. Rural Conservancy: CUP
3. Urban Conservancy and Shoreline Residential: Prohibited
4. Mining: CUP
5. Aquatic: Prohibited

B. Development Standards
1. Mining and associated activities shall only be allowed when all of the following criteria have been met:
   a. The location, design and conduct is consistent with the Environment Designation and with the Thurston County mineral resource overlay;
   b. Demonstrated consistency with critical areas regulations;
   c. The activity is dependent on a shoreline location;
   d. The activity demonstrates no net loss of shoreline ecological functions through avoidance, minimization and mitigation of adverse impacts during the course of mining and reclamation.
2. All of the provisions and requirements for mining in Chapter 78.44 RCW (Surface Mining), as now or hereafter amended, shall be met.
3. Any proposed subsequent use of mined property shall be consistent with the provisions of the environment designation in which the property is located.
4. Reclamation of disturbed shoreline areas shall be required to provide appropriate ecological functions consistent with the pre-existing and current surrounding conditions.
5. Mining proposals shall give consideration to activities that result in the creation, restoration, or enhancement of habitat for priority species.
6. Mining shall be prohibited waterward of the OHWM and prohibited within a Channel Migration Zone.
7. The deposit of overburden within shorelines constitutes fill and shall be subject to the provisions of this Program.

Commented [AD73]: WAC 173-26-241(3)(h) uses this language for identifying areas where mining may be designated as appropriate.

Commented [AD74]: WAC 173-26-241(3)(h)(ii)(A) New mining and associated activities shall be designed and conducted to comply with the regulations of the environment designation and the provisions applicable to critical areas where relevant. Accordingly, meeting the no net loss of ecological function standard shall include avoidance and mitigation of adverse impacts during the course of mining and reclamation. It is appropriate, however, to determine whether there will be no net loss of ecological function based on evaluation of final reclamation required for the site.

Commented [AD75]: WAC 173-26-241(3)(h)(ii)(B) Master program provisions and permit requirements for mining should be coordinated with the requirements of chapters 78.44 and 77.55 RCW.

Commented [AD76]: WAC 173-26-241(3)(h)(ii)(C) Master programs shall assure that proposed subsequent use of mined property is consistent with the provisions of the environment designation in which the property is located and that reclamation of disturbed shoreline areas provides appropriate ecological functions consistent with the setting.

Commented [AD77]: WAC 173-26-241(3)(h)(ii)(A) Preference shall be given to mining proposals that result in the creation, restoration, or enhancement of habitat for priority species.

Commented [AD78]: WAC 173-26-241(3)(h)(ii)(D) does provide conditions when mining may be permitted waterward of the OHWM. Paragraph E states that mining within the channel migration zone requires a CUP.
19.600.160 Mooring Structures and Activities

A. Environment Designations Permit Requirements – working with Ecology on this section

When mooring structures are proposed in the Aquatic designation and are adjacent to the following upland designations, the identified permit requirements shall apply.

1. Mining: Prohibited
   1. Natural:
      a. Prohibited for single-use;
      b. Prohibited for joint or public use, unless the adjoining upland is a public park, then up to two mooring buoys may be permitted with a SDP

Option for Public Hearing: Consider allowing docks in the Natural environment of lakes and marine shorelines.

2. Rural Conservancy, Urban Conservancy, and Shoreline Residential, and SDP.

B. Application Requirements

In addition to the general permit requirements, proposals for mooring structures shall include the following:

1. A staff consultation meeting with the Department, state and federal agencies (where applicable), and tribes affected by proposals within their usual and accustomed grounds and stations shall be required prior to application for new piers and docks, pursuant to Chapter 19.500 (Permit Provisions, Review and Enforcement);
2. Description of the proposed structure, including size, location, design, and any other modification required by the project;
3. Ownership of tidelands, shorelands, and/or bedlands;
4. Proposed location of mooring structures relative to property lines and OHWM;
5. Location, width, height, and length of mooring structures on adjacent properties;
6. If for residential moorage, demonstration that existing facilities, including public moorage on the same lake or within ten driving miles of the applicant’s parcel on the marine shoreline, are not adequate or feasible to accommodate the proposed moorage;

Option for Public Hearing: Strike requirement to consider alternative moorage prior to allowing piers and docks.

Commented [AD79]: WAC 173-26-231(2)(b): Reduce the adverse effects of shoreline modifications and, as much as possible, limit shoreline modifications in number and extent.
8. For residential docks, written confirmation from each adjoining landowner indicating whether or not a joint-use mooring structure agreement will be entered into; and

9. When maps or observation indicate the potential presence of critical saltwater or freshwater habitat on the parcel, habitat surveys as described in Section 19.700.145 shall be required for mooring structures, with the exception of buoys, and shall be conducted according to WDFW, Washington Department of Natural Resources, and the U.S. Army Corps of Engineers parameters, where applicable.

C. Development Standards

1. General Development Standards
   a. New mooring structures shall be allowed only for water-dependent uses or public access. As used here, a dock associated with a single-family residence is a water-dependent use and may be permitted, provided that it is designed and intended as a facility for access to watercraft and otherwise complies with the provisions of the Act and this Program.
   b. New overwater structures are only allowed in support of a water-dependent use. New water-related and water-enjoyment uses may be allowed permitted on overwater structures if they are auxiliary to the primary water-dependent use as part of mixed-use development on overwater structures where they are clearly auxiliary to and in support of water-dependent uses, provided the minimum size requirement needed to meet the water-dependent use is not violated.
   c. Mooring structures shall follow all applicable state and federal requirements for building standards, materials, installation timing, and surveys.
   d. Mooring structures shall only be allowed in critical saltwater and freshwater habitats when the standards provided in this section for such habitats are met.
   e. Overwater structures shall be constructed to the minimum size necessary to meet the needs of the proposed water-dependent use, including docks associated with single-family residences, provided the additional development standards of this chapter are met.
   f. Buoys shall be preferred over piers, docks or floats in the marine environment. Applicants shall demonstrate that a buoy is not a feasible option prior to proposing a less preferred option.

Option for Public Hearing: Strike requirement to consider alternative moorage prior to allowing piers and docks.

g. Single-use mooring structures, with the exception of buoys, shall be prohibited except where it can be demonstrated that a joint use facility is not feasible.
   h. Proposed moorage structures for new residential development of two or more dwellings shall be limited to a single, joint-use community facility except where demonstrated to be infeasible, with no more than one moorage space per dwelling unit or lot. If shared moorage is provided, the applicant/proponent shall file a legally enforceable joint use agreement or other legal instrument at the time of plat recordation.
   i. Except when accessory to single family residences, any new pier or dock construction may only be permitted if the applicant has demonstrated that a specific need exists to...
support the intended water-dependent use. This may include justification through port or county comprehensive plans.

j. Mooring structures shall be readily discernible under normal daylight conditions to the unaided eye at a minimum distance of one hundred yards and must be marked for nighttime visibility.

k. No creosote, chromate copper arsenate, or pentachlorophenol treated wood, or other comparably toxic compounds shall be used as part of the decking, pilings, or other components of any in-water structures such as docks, piers, and floats. These types of treated wood shall only be used for above-water structural framing.

l. During maintenance, existing deteriorated treated wood shall be replaced with alternative materials such as untreated wood, steel, concrete, or recycled plastic, or encased in a manner that prevents metals, hydrocarbons and other toxins from leaching out. If maintenance activities exceed 50% repair or replacement of the existing structure, then the application requirements in Section 19.600.160(B) above shall apply.

m. Tires are prohibited as part of above and below water structures or where tires could potentially come in contact with the water.

n. During maintenance or repair of a pier, dock or ramp, existing tire materials shall be replaced with inert or encapsulated materials such as plastic or encased foam. Likewise, any un-encapsulated foam material must be removed or replaced.

o. To prevent scouring of the substrate, power-assisted pressure washing or cleaning of equipment, machinery, or structures in water less than seven feet deep shall be prohibited. In addition, equipment that contains or is covered with petroleum based products shall not be pressure washed in or over the water.

p. New covered moorage, over-water boat houses, side walls or barrier curtains associated with single family residential moorage are prohibited. When covered moorage and covered watercraft lifts are replaced, the replacement structures should use transparent roofing materials that are rated by the manufacturer as having 90% or better light transmittance. – working with Ecology on this section

q. New structures shall be designed and located so no new bulkheading or armoring of the shoreline is necessary.

r. Functional grating resulting in a total open area of a minimum of 24% must be installed on piers and floats which are new or greater than 50% replacement. This can be achieved by installing grating with 60% open area on at least 40% of the pier or by grating a larger percentage of the pier with grating with openings of less than 60%. Exceptions to these standards may be permitted where need is demonstrated and when approved by the U.S. Army Corps of Engineers.

s. Grating must not be covered, on the surface or underneath, with any stored items and must be kept clean of algae, mud or other debris that may impede light transmission.

t. All mooring facilities shall be designed and constructed to avoid, or where avoidance is not feasible, to minimize and mitigate impacts to achieve no net loss of ecological functions, including functions associated with critical freshwater and saltwater habitats and species, such as eelgrass beds, and fish habitats and processes such as currents and littoral drift.

u. Proposed moorage facilities should be evaluated to ensure that the project does not conflict with existing water dependent uses.

2. Critical Saltwater Habitats Standards
a. Except for private, non-commercial mooring facilities for individual or community use, all mooring structures may only be permitted if the applicant can clearly demonstrate the public’s need for the structure, the structure is consistent with the public trust protections in RCW 90.58.020, and the structure is consistent with the State’s interest in resource protection and species recovery.

b. Where existing covered moorage, covered watercraft lifts, and boathouses associated with single-family residences occur within critical saltwater habitats, the structure shall be removed by the end of the life of the structure, or relocated to avoid critical saltwater habitats at the time of greater than 50% replacement, except where demonstrated to be infeasible.

c. New or expanded mooring structures shall be located the greater of or most protective of:
   i. A horizontal distance of twenty-five feet from the outside edge of the structure to native aquatic vegetation attached to or rooted in substrate;
   ii. A horizontal distance equal to the maximum distance shade will be cast by the structure and vessel;
   iii. A four foot vertical distance from eelgrass or relevant submerged aquatic vegetation;
   iv. A distance the diameter of the turning circle, if the structure is to be utilized for motorized vessels. The turning circle is defined as 3.5 times the length of the longest vessel to use the structure.
   v. Alternative measures that demonstrate no net loss of ecological functions.

d. In areas that have not been documented as spawning sites, but contain characteristics that would support forage fish spawning, a habitat survey shall be conducted over a two-year period throughout the assumed local spawning season. If the proponent is unwilling to bear the time and expense of such a survey, the project must be designed and operated under the presumption that forage fish spawning does occur at the site, pursuant to WDFW standards.

e. For sites adjacent to sand lance and surf smelt spawning areas, all in-water work that has the potential to increase suspended sediments in the spawning area during the spawning period shall require at least two feet vertical separation from the tidal elevation of the spawning bed, or a setback of 180 feet horizontal distance from the lower edge of the spawning habitat zone. In-water work should occur during an outgoing tide when the water line is below the lower edge of a surf smelt/sand lance spawning habitat zone (five to six feet MLLW).

3 Pilings

a. New or replacement pilings may be made of steel, concrete, plastic, untreated wood or treated wood where approved for the marine or freshwater environment, except creosote and similar products.

b. New pilings must be spaced 20 feet apart lengthwise. If the structure is less than 20 feet in length, pilings may be allowed at the ends of the structure only. In areas with forage fish spawning or rearing and submerged aquatic vegetation, when allowed, pilings must be spaced 40 feet apart lengthwise.

c. A maximum of two moorage pilings beyond or parallel to a mooring structure may be allowed to accommodate moorage of boats exceeding the length of the mooring structure.
or to provide supplementary tie-down locations for boats that require additional stabilization.

d. New or replacement pilings shall be driven only during construction windows approved by WDFW. These include protection for spawning periods and periods of presence of juvenile salmonids, forage fish and groundfish.

4. Piers

a. Single-use piers may not exceed 4 feet in width (6 feet if wheelchair access is needed), and joint-use piers may not exceed 6 feet in width, unless otherwise approved by the U.S. Army Corps of Engineers, if applicable to the proposal. See Figures 19.600.160.1 and 19.600.160.2 for illustration of single-use and joint-use moorage requirements.

b. In no case shall piers and their associated ramps and floats extend greater than 15% of the perpendicular shore-to-shore distance across a waterbody, except where a navigational study has been submitted for County review and approval. The navigational study shall analyze impacts to local recreational use, and recommend mitigation measures to minimize such impacts.

c. Piers shall have a north-south orientation to the maximum extent feasible. For every 10 degrees difference from this orientation, the structure shall be 2/3 of one foot greater in height, to the extent which it does not create an aesthetic conflict.

d. New or replacement piers must be oriented in a straight line.

e. The construction of new covered structures on piers is prohibited. This does not include electrical utility boxes, or if such structure is an element of an approved marina, port or park plan.

f. The width of the ramp connecting the pier to shore or to a float must not exceed four feet in width (six feet if wheelchair access is needed). New and replacement ramps or gangways shall be fully grated with 60% open area. Exceptions to these standards may be permitted where need is demonstrated and where approved by the U.S. Army Corps of Engineers.

Commented [AD04]: WAC 173-26-231(3)(b): Piers and docks, including those accessory to single-family residences, shall be designed and constructed to avoid or, if that is not possible, to minimize and mitigate the impacts to ecological functions...

WAC 173-26-231(2) [SMPs] shall implement the following principles: (b) (b) Reduce the adverse effects of shoreline modifications and, as much as possible, limit shoreline modifications in number and extent.

(d) Assure that shoreline modifications individually and cumulatively do not result in a net loss of ecological functions. This is to be achieved by giving preference to those types of shoreline modifications that have a lesser impact on ecological functions and requiring mitigation of identified impacts resulting from shoreline modifications.
Figure 19.600.160(1). Mooring structure and recreational float dimensional requirements for single-use facilities.

Figure 19.600.160(2). Mooring structure and recreational float dimensional requirements for joint-use facilities.

5. Floats
   a. All foam material whether used for flotation or for any other purpose must be encapsulated within a shell that prevents breakup or loss of the foam material into the water and is not readily subject to damage by ultraviolet radiation or abrasion.
   b. Floatation shall not be installed under functional grating.
   c. Floats and watercraft shall not ground out at low tide and shall not be permitted to rest landward of MLLW.
   d. Floats shall be suspended at all times a minimum of one foot above the substrate. The preferred method is to suspend the float above the substrate by installing float stops on piling. The stops must be able to fully support the entire float during all tidal elevations. In some instances, stub pilings or float feet may be considered.
   e. Single-use floats attached to piers shall not exceed eight feet in width and 30 feet (15 feet for lakes) in length. Functional grating must be installed on at least 50% of the surface area. See Figures 19.600.160(1) and 19.600.160(2) for illustration of single-use and joint-use moorage requirements.
   f. Joint-use floats attached to piers shall not exceed eight feet in width and 60 feet (30 feet for lakes) in length. Functional grating must be installed on at least 50% of the surface area. Exceptions to this standard may be permitted where need is demonstrated and where approved by the U.S. Army Corps of Engineers.
g. Single-use recreational floats shall not exceed 64 square feet in size and joint-use recreational floats shall not exceed 200 square feet in size. In either case, the float must have at least 50% functional grating. See Figures 19.600.160(1) and 19.600.160(2) for illustration of single-use and joint-use moorage requirements.

h. Community recreational floats associated with public parks and other recreational facilities shall be a maximum of 300 square feet in size and must have at least 50% functional grating.

6. Boat Launching Ramps, Railways and Lifts

   a. Private boat launches shall not extend below ordinary high water, unless they:
      i. Are elevated, and
      ii. Will result in no net loss of shoreline ecological functions, and
      iii. Minimize aesthetic impacts to the greatest extent possible.

   b. Commercial or community boat launching ramps shall provide a wash-down drainage crypt which incorporates oil-water separators for the treatment and disposal of wastewater associated with the boat launching ramp.

   c. Private marine rail systems are preferred over private boat launch ramps. Applicants shall demonstrate that the preferred option is infeasible before selecting the less preferred option.

   d. Marine rail systems shall be maintained in operating condition or must be removed.

   e. Marine rail systems shall be designed, to the greatest extent feasible, so they are not barriers to littoral drift.

   f. Floating watercraft lifts shall be located greater than nine feet waterward from the OHWM.

   g. The area of floating boat lifts to be installed on the overwater structure must be included in the float grating calculations.

7. Buoys and Anchors

   a. One mooring buoy may be permitted per residence, pursuant to the standards in this section.

   b. Mooring buoys may be permitted at public parks, provided they are part of an approved park plan.

   c. Mooring buoys and/or anchors shall not be used for moorage of live-aboard vessels. Other extended moorage or anchoring shall only be allowed in waters of the State when permission is obtained from the State, and impacts to navigation and public access are mitigated.

   d. Mooring buoys shall have a helical anchor with a mid-line float and be located in water at least sixteen feet deep to minimize impacts to the substrate and aquatic vegetation, except where consultation with the appropriate state resource agency results in an alternate design due to site-specific conditions.

   e. Mooring buoys are limited to use for vessels no longer than sixty (60) feet in length.

   f. Mooring buoys are subject to Washington Department of Natural Resources approval for placement in state owned aquatic lands (RCW 79.105.430), and WDFW approval for any mooring buoy placement.

   g. Recreational mooring buoys shall be registered with Thurston County.

8. Lakes, Rivers and Streams

   a. Mooring structures shall be prohibited on rivers and streams.
b. No mooring structures shall be constructed within 100 feet of the mouth of a river, stream or creek.

19.600.165 Recreation and Public Access — working with Ecology on this section

This section is applicable to commercial and public recreational development, and public access related to new developments of more than four housing units.

A. Environment Designations Permit Requirements

Where recreational development for the purpose of public access is proposed in the following designations, the identified permit requirements shall apply.

1. Natural:
   a. Prohibited for non-water-oriented recreational development;
   b. SDP for non-motorized, water-oriented recreational development; and
   c. CUP for all other forms of recreation, except where demonstrated to be consistent with approved park plans prior to application, and then with a SDP.

2. Rural Conservancy, Urban Conservancy, Shoreline Residential, Mining: SDP

3. Aquatic: The required permit type will be determined by the specific recreational development proposed as set forth in Chapter 19.600 (Shoreline Use and Modification Development Standards). For example, see Section 19.600.125, Boating Facilities.

B. Application Requirements

In addition to the general permit requirements, a description of how the proposed use is water-oriented is required if applicable.

C. Development Standards

1. Recreational development shall not result in a net loss of shoreline ecological functions or ecosystem-wide processes.

2. All recreational facilities shall be designed, located and operated in a manner consistent with the purpose of the environment designation in which they are located.

3. Water-oriented recreation may be allowed in shoreline buffers when they provide visual or physical access to the shoreline. The removal of on-site native vegetation shall be limited to the minimum necessary for the recreational development areas, such as picnic areas, campsites, selected views, or other permitted structures or facilities. Impacts created from vegetation removal shall be mitigated.

4. Preference shall be given to activities which are consistent with approved state and local park plans for water-oriented recreational development.

5. Non-water-oriented recreational facilities, such as golf courses, playing fields, and facilities with extensive impervious surfaces, shall observe Critical Area Buffers and Vegetation Conservation Standards (Sections 19.400.115 and 19.400.120, respectively).

Commented [AD98]: WAC 173-26-241(3)(i): Provisions related to public recreational development shall assure that the facilities are located, designed and operated in a manner consistent with the purpose of the environment designation in which they are located and such that no net loss of shoreline ecological functions or ecosystem-wide processes results.

Commented [AD99]: WAC 173-26-241(2)(a) [SMPs] shall implement the following principles: (iv): Establish use regulations designed to assure no net loss of ecological functions associated with the shoreline.

Commented [AD100]: WAC 173-26-241(2)(a) [SMPs] shall implement the following principles: (iii): Reduce use conflicts by including provisions to prohibit or apply special conditions to those uses which are not consistent with the control of pollution and prevention of damage to the natural environment or are not unique to or dependent upon use of the state’s shoreline. In implementing this provision, preference shall be given first to water-dependent uses, then to water-related uses and water-enjoyment uses.
6. Commercial recreational development shall be consistent with Section 19.600.130 (Commercial Development).

7. Recreational vehicular traffic is prohibited on beaches, bars, spits and streambeds, except for permitted construction and boat launching, or in areas where it can be demonstrated that a historical use has been established.

8. Public road-ends, tax-title lands and right-of-ways adjacent to shorelines of the state shall be preserved for public access, unless the property is zoned for industrial uses. Pursuant to RCW 36.87.130, as now or hereafter amended, vacation of such shall only occur if the purpose is to:
   a. Enable any public authority to acquire the vacated property for port purposes, boat moorage or launching sites; or
   b. Provide for park, viewpoint, recreational, educational or other public purpose.

9. Trail access shall be provided to link upland facilities to the beach area where feasible and where impacts to ecological functions can be mitigated.

10. When applicable, recreational development shall make adequate provisions for:
    a. Vehicular parking and pedestrian access;
    b. Proper wastewater and solid waste disposal methods;
    c. Security and fire protection;
    d. The prevention of overflow and trespass onto adjacent properties, including, but not limited to, landscaping, fencing, and posting of property;
    e. Screening of such development from adjacent private property to prevent noise and light impacts.

11. Shoreline trails and pathways shall be located, designed, and constructed to protect bank stability.

12. As required by RCW 90.58.100(4), applications providing for wilderness beaches, ecological study areas, and recreational uses for the public on state-owned shorelines shall be considered a preferred use.

13. Public access sites shall be made barrier-free and accessible for physically disabled uses where feasible, and in accordance with the Americans with Disabilities Act (ADA).

19.600.170 Residential Development

A. Environment Designations Permit Requirements

Where residential development is proposed in the following designations, the identified permit requirements shall apply.

1. Natural:
   a. CUP for primary single-family residences and subdivisions.
   b. Prohibited for multi-family units and accessory dwelling units.

2. Rural Conservancy and Urban Conservancy:
   a. SDP if exemption criteria not met.
B. Development Standards

1. All new residential development, including subdivision of land, shall be designed, configured and developed in a manner that ensures no net loss of shoreline ecological function.

2. All sewage disposal and water systems shall be in compliance with state and local health regulations including but not limited to Thurston County Board of Health Articles III and IV for on-site sewage and water supply requirements.

3. New and remodeled residential development and new subdivisions shall be designed, located and constructed so that structural improvements, including bluff walls, retaining walls and other stabilization structures, are not required to protect such structures and uses.

4. New over-water residences, including floating homes, are prohibited. Where such homes exist as of the adoption date of this Program, they shall be reasonably accommodated to allow improvements associated with life safety matters and property rights (mitigation may be required).

5. Stormwater quality and quantity measures for residential development must comply with current codes.

6. Flood hazard reduction measures for residential development shall comply with Chapter 24.20 TCC, as incorporated here by Section 19.400.115 (Critical Areas) and Section 19.400.150 (Flood Hazard Reduction Measures) of this Program and shall be designed to prevent net loss of shoreline ecological functions.

7. New multi-unit residential development, including the subdivision of land for five or more parcels, shall provide for joint or community and/or public access, except where demonstrated to be infeasible due to any of the following:
   a. Incompatible uses;
   b. Safety;
   c. Security;
   d. Impact to the shoreline environment;
   e. Other legal limitations that may be applicable.

8. In cases where on-site access is infeasible, alternate methods of providing public access shall be considered, such as off-site improvements.

9. Lot area shall be calculated using only those lands landward of the OHWM.

10. Single-family residential uses are a priority use only when developed in a manner consistent with control of pollution and prevention of damage to the natural environment.
19.600.175 Shoreline Stabilization

A. Environment Designations Permit Requirements

Based on the type of shoreline modification proposed, the identified permit requirements shall apply for all designations:

1. Administrative CUP for soft shoreline stabilization.
2. CUP for hard shoreline stabilization.

B. Exemptions from Substantial Development Permit for Shoreline Stabilization

1. The construction of a normal protective bulkhead common to single-family residences shall not require an SDP if it meets the exemption criteria listed in Section 19.500.100(C)(3)(c) of this Program, or as further amended in WAC 173-27-040. An exemption from an SDP is not an exemption from a CUP or an Administrative CUP where applicable.

2. A “normal protective” bulkhead includes those structural and nonstructural developments installed at or near, and parallel to, the OHWM for the sole purpose of protecting an existing single-family residence and appurtenant structures from loss or damage by erosion.

3. A letter of permit exemption will be prepared for qualifying shoreline stabilization activities in accordance with Section 19.500.100(C)(4). The County shall track exemption activities in the permit system.

C. Application Requirements

In addition to the general application requirements, applications for shore protection and bluff stabilization shall include the following information, when applicable:

1. Upland, onsite improvements and any existing shoreline structures.
2. Type of proposed shore protection and a description of alternatives to hard approaches where proposed, and a thorough discussion of the environmental impacts of each alternative;
3. Habitat survey prepared by a qualified professional biologist that describes the anticipated effects of the project on fish and wildlife resources and marine vegetation;
4. A description of any proposed vegetation removal, and a plan to re-vegetate the site following construction;
5. Tidal elevations and field verified line of ordinary high water;
6. Ownership of the tidelands, shorelands and/or bedlands;
7. Purpose of shore protection;
8. Direction of net longshore drift (for marine shoreline);
9. Plan and profile of existing bank and beach;
10. Profile of adjacent existing bulkhead;

11. In addition to the general Geotechnical Report requirements in Section 19.700.120, the following information shall be included for shoreline stabilization proposals:
   a. Address the need to prevent potential damage to a primary structure through the use of shoreline stabilization measures.
   b. Estimate time frame and rates of erosion to report on the urgency associated with the specific situation. Urgent means:
      i. That the primary structure will be damaged within three years as a result of natural shoreline erosion in the absence of hard armoring structures, or
      ii. Where waiting until the need is that immediate would foreclose the opportunity to use measures that avoid impacts on ecological functions.
   c. If the report determines that the need is not as immediate as three years, it still may be used to justify a more immediate authorization to protect against erosion using soft measures.
   d. The geotechnical analysis shall evaluate on-site drainage issues and address drainage problems away from the shoreline edge.

12. Any other information that may be required to demonstrate compliance with the review criteria referenced in this section and the guiding provisions at WAC 173-26-231(3)(a).

D. Development Standards

1. General Regulations
   a. These standards shall be guided by the provisions at WAC 173-26-231(3)(a).
   b. Applications for shore protection will be reviewed pursuant to comments made by the Washington Department of Fish and Wildlife pertaining to impacts on critical salt and freshwater habitats, and comments made by the Washington Department of Natural Resources for projects proposed on state owned aquatic lands.
   c. Soft shoreline stabilization measures (i.e. non-structural) shall be utilized unless demonstrated through a geotechnical analysis not to be sufficient to protect primary structures, dwellings and businesses. Alternatives for shoreline stabilization shall be based on the following order of preference:
      i. No action,
      ii. Non-structural methods: increase building setbacks, or relocate structures;
      iii. Soft shoreline stabilization constructed of natural materials including bioengineering, beach nourishment, protective berms, or vegetative stabilization;
      iv. Hybrid shoreline stabilization, usually constructed of a mix of rock, logs and vegetation;
      v. Hard shoreline stabilization constructed of materials such as rock, riprap or concrete.
   d. Soft shoreline stabilization measures that provide restoration of shoreline ecological functions may be permitted waterward of the OHWM.
   c. When hard shoreline stabilization measures (i.e. structural) are demonstrated to be necessary, they must:
      i. Limit the size of stabilization measures to the minimum necessary,
      ii. Assure no net loss of shoreline ecological functions.

Commented [AD114]: WAC 173-26-231(3)(a)(ii): master programs shall implement the above principles and apply the following standards:
   (D) Geotechnical reports pursuant to this section that address the need to prevent potential damage to a primary structure shall address the necessity for shoreline stabilization by estimating time frames and rates of erosion and report on the urgency associated with the specific situation. As a general matter, hard armoring solutions should not be authorized except when a report confirms that there is a significant possibility that such a structure will be damaged within three years as a result of shoreline erosion in the absence of such hard armoring measures, or where waiting until the need is that immediate, would foreclose the opportunity to use measures that avoid impacts on ecological functions. Thus, where the geotechnical report confirms a need to prevent potential damage to a primary structure, but the need is not as immediate as the three years, that report may still be used to justify more immediate authorization to protect against erosion using soft measures.

Letter d. comes from language requiring a geotechnical analysis for new structural stabilization measures to protect existing primary structures (WAC 173-26-231(3)(a)(iii)(B)(i)).

Commented [AD115]: WAC 173-26-231(3)(a)(iii)(C), though it is for replacement of existing shoreline armoring measures and principal appurtenant structures in danger from active shoreline erosion, master programs should include standards setting forth the circumstances under which alteration of the shoreline is permitted, and for the design and type of protective measures and devices.

Commented [AD116]: WAC 173-26-231(3)(a)(iii)(E) When any structural shoreline stabilization measures are demonstrated to be necessary, pursuant to above provisions.
   • • Soft approaches shall be used unless demonstrated not to be sufficient to protect primary structures, dwellings, and businesses.

Commented [AD117]: This is stated in WAC 173-26-231(3)(a)(iii)(C), though it is for replacement of existing stabilization structures.
2. New and Expanded Shoreline Stabilization

a. If shoreline stabilization is necessary pursuant to a geotechnical analysis, the method, either hard or soft, shall not result in a net loss of shoreline ecological functions. To meet this requirement, on- and off-site mitigation measures may be required.

b. Shoreline stabilization structures shall not be constructed with waste materials such as demolition debris, derelict vessels, tires, concrete or any other materials which might have adverse toxic or visual impacts on shoreline areas.

c. New structural stabilization measures shall not be allowed except when necessity is demonstrated in the following manner:

1. New or enlarged structural shoreline stabilization measures for the existing primary structure, including residences and their primary appurtenant structures or uses, shall not be allowed unless there is conclusive evidence, documented by a geotechnical analysis, that the lawfully established, primary structure is in imminent danger from shoreline erosion caused by tidal actions, currents, or waves;

Commented [AD118]: WAC 173-26-231(3)(a)(iii)(E) When any structural shoreline stabilization measures are demonstrated to be necessary, pursuant to above provisions. • Limit the size of stabilization measures to the minimum necessary. Use measures designed to assure no net loss of shoreline ecological functions. Soft approaches shall be used unless demonstrated not to be sufficient to protect primary structures, dwellings, and businesses. • Ensure that publicly financed or subsidized shoreline erosion control measures do not restrict appropriate public access to the shoreline except where such access is determined to be infeasible because of incompatible uses, safety, security, or harm to ecological functions. See public access provisions; WAC 173-26-22(4). Where feasible, incorporate ecological restoration and public access improvements into the project.

Commented [AD119]: WAC 173-26-231(3)(a)(iii)(B) describes situations where structural stabilization measures may be utilized, which does not include the purpose of creating dry land, extending property, preserving lawns, or landscaping.

Commented [AD120]: Stated throughout WAC 173-26-231(3)(a) and generally for all shoreline modifications in WAC 173-26-231(2)(d).

Commented [AD121]: WAC 173-26-231(2) describes mitigation in general for shoreline modifications.

Also, WAC 173-26-231(3)(a)(iii)(B) states in order to implement RCW 90.58.100 and avoid or mitigate adverse impacts to shoreline ecological functions where shoreline alterations are necessary to protect single-family residences and principal appurtenant structures in danger from active shoreline erosion, master programs should include standards setting forth the circumstances under which alteration of the shoreline is permitted, and for the design and type of protective measures and devices.
2. Normal sloughing, erosion of steep bluffs, or shoreline erosion itself, without a scientific or geotechnical analysis, is not demonstration of need.

ii. In support of water-dependent development when all of the following apply:
1. The erosion is not being caused by upland conditions, such as the loss of vegetation and drainage;
2. Nonstructural measures, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient;
3. The need to protect primary structures from damage due to erosion is demonstrated through a geotechnical report;

iii. In support of new non-water-dependent development, including single-family residences, when all of the following apply:
1. The erosion is not being caused by upland conditions, such as the loss of vegetation and drainage;
2. Nonstructural measures, such as placing the development further from the shoreline, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient;
3. The need to protect the primary structures from damage due to erosion is demonstrated through a geotechnical report. The damage must be caused by natural processes, such as tidal action, currents and waves;

iv. To protect projects for the restoration of ecological functions or hazardous substance remediation projects pursuant to chapter 70.105D RCW when nonstructural measures, planting vegetation, or installing on-site drainage improvements are not feasible or sufficient.

3. Replacement and Repair of Existing Shoreline Stabilization and Armoring. For the purposes of this section, "replacement" means the construction of a new structure to perform a shoreline stabilization function of an existing structure which can no longer adequately serve its purpose.

a. Additions to or increases in the size of existing shoreline stabilization measures shall be considered new structures.

b. An existing stabilization structure may be replaced with a similar structure if there is a demonstrated need, through a geotechnical report, to protect principle uses or structures from erosion caused by currents, tidal action or waves.

c. If the OHWM has been re-established, the replacement structure must be located at or near the new OHWM. In general, replacement of the shoreline stabilization structure within one year of damage will ensure recognition of the previous OHWM.

d. Alternative or soft stabilization approaches shall be considered prior to in-kind replacement.

e. The replacement structure shall:
1. Be designed, located, sized and constructed to assure no net loss of ecological functions.
2. Perform the same stabilization function of the existing structure and does not require additions to or increases in size.
3. Not encroach waterward of the OHWM or existing structure unless the residence was occupied prior to January 1, 1992, and there are overriding safety or environmental concerns. In such cases, the replacement structure shall abut the existing shoreline stabilization structure.

f. When possible or as an element of mitigation sequencing, failing, harmful, unnecessary, or ineffective structures should be removed, and shoreline ecological functions and processes should be restored using non-structural or soft and/or long term stabilization measures.
4. Shore Stabilization on Streams.
   a. Hard shoreline stabilization methods are prohibited in jurisdictional shoreline streams on estuarine shores, in wetlands, and in salmon spawning areas, except for the purpose of fish or wildlife habitat enhancement or restoration, or when deemed necessary through a geotechnical report to protect an existing primary structure.
   b. All revetments or similar structures shall be designed in accordance with WDFW Integrated Streambank Protection Guidelines.

5. Use of shoreline armoring to protect a platted lot where no primary use or structure presently exists shall be prohibited.

19.600.180 Transportation - working with Ecology on this section

A. Environment Designations Permit Requirements

Where transportation is proposed in the following designations, the identified permit requirements shall apply. Note: new trail construction shall be regulated under applicable Recreation and Public Access (Section 19.600.165) provisions.

1. Natural: Prohibited, except to serve essential transportation corridors or in support of permitted uses and activities, and then with a CUP.
2. Rural Conservancy, Mining, and Urban Conservancy: CUP
3. Shoreline Residential: SDP

B. Development Standards

1. New transportation facilities and maintenance of existing transportation facilities shall be carried out in a manner that will: a) avoid a net loss of shoreline ecological functions, and b) result in a net improvement in ecological functions where feasible and appropriate. Unavoidable adverse impacts shall be mitigated.

2. Parking facilities as a primary use are prohibited. Parking facilities shall only be allowed in shoreline jurisdiction when:
   a. Necessary to support an authorized use, and
   b. No net loss of ecological functions can be demonstrated, and
   c. Visual impacts are minimized, and
   d. Located on the landward side of the area authorized for development.

3. New or expanded transportation routes in the shoreline jurisdiction, including associated wetlands, shall to the greatest extent feasible:
   a. Be located in areas that do not require shoreline stabilization, dredging, extensive cut/fill and other forms of shoreline alteration;
   b. Be limited to local access and public shoreline access routes;
   c. Be located in existing rights of way and corridors; and/or
   d. Not be built within shoreline jurisdiction when reasonable or practicable alternative exist.
4. Provision shall be made for sufficient view points, rest areas, and picnic areas in public shorelines, where feasible. In addition, bike paths and walking paths shall be incorporated into road designs.

5. All proposed road, bridge or railroad crossings, shall be designed to cross at the shortest, most direct route, except where such design would result in a net loss of shoreline ecological functions or is prohibited by topography.

6. Bridge approach fill shall not encroach in the floodway of any stream or river.

7. All public bridges shall include sidewalks for pedestrian use if sidewalks exist or are planned for connecting roadways.

8. All bridges and culverts shall be large enough to pass the 100-year flood waters with consideration for debris flow likely to be encountered, or designed to the standards of the WDFW Aquatic Habitat Guidelines.

9. All bridges intended for use by motorized vehicles shall be designed for emergency vehicle weight loads.

10. Roads and bridges located in wetland areas shall be designed and maintained to prevent erosion and to permit the natural movement of groundwater to the greatest extent feasible.

11. Transit Facilities: To the extent feasible transit facilities such as bus stops and shelters shall be located and designed consistent with Subsection 3 above. Park and ride facilities shall meet the standards of Subsection B above. All other performance standards of Section 19.600.180(B) shall apply.

19.600.185 Utilities

A. Environment Designations Permit Requirements

Where utilities are proposed in the following designations, the identified permit requirements shall apply. Utilities associated with a single-family residence are considered an appurtenance and regulated under the residential development section. Utilities associated with other permitted uses are regulated as part of that use.

1. Natural: Prohibited, except to serve essential utility corridors or in support of permitted uses and activities, and then with a CUP.

2. Rural Conservancy, Urban Conservancy, Shoreline Residential, Mining: SDP.

3. Aquatic: CUP

B. Application Requirements

All applications for utility facilities shall include, at a minimum, the following:

1. Reason why facility must be located in the shoreline jurisdiction;

2. Alternative locations considered and reasons for their rejection;
1. General Regulations

a. On-site utility features serving a primary use, such as a water, sewer or gas line to a residence, are accessory utilities and shall be considered a part of the primary use.

b. All utility facilities shall be designed and located to assure no net loss of shoreline ecological functions, preserve the natural landscape, and minimize conflicts with present and planned land and shoreline uses while meeting the needs of future populations in areas planned to accommodate growth per the Thurston County Comprehensive Plan.

c. Non-water-oriented utility production and processing facilities, such as power plants and sewage treatment plants, or parts of those facilities, shall not be allowed in shoreline jurisdiction unless it can be demonstrated that no other feasible option is available.

d. Transmission facilities shall be located outside of the shoreline area where feasible. When located in the shoreline area, they must be constructed, designed and located to assure no net loss of shoreline ecological functions.

e. Utilities shall be located in existing rights-of-way and corridors whenever possible.

f. New or expanded utility facilities shall be located in areas that do not require shoreline stabilization, dredging, extensive cut/fill and other forms of shoreline alteration to the greatest extent feasible.

g. Maintenance of existing utilities shall be carried out in manner that will not result in a net loss of shoreline ecological functions, and any unavoidable adverse impacts shall be mitigated. This includes minimization of vegetation removal, and mitigation of any adversely affected area.

h. Where feasible and consistent with shoreline ecological functions, new and replacement utility lines shall be underground.

i. Development of pipelines and cables on tidelands and development of facilities that may require periodic maintenance that disrupts shoreline ecological functions should be prohibited unless no other feasible alternative exists. When allowed, the location, design and construction of such facilities shall not result in a net loss of shoreline ecological functions or significant impacts to the other shoreline resources and values.

2. Sewage Treatment Plants and Outfalls.

a. Where allowed, sewage treatment plant outfalls shall be below the extreme low water mark and are permitted only where adequate natural water circulation can be provided.

b. Sewage facilities shall be located within existing rights-of-way when feasible.

c. To the maximum extent possible, sewage treatment plant outfalls shall be located where their effluent will not negatively impact commercial and recreational shellfish and other critical habitat and marine resource areas. Mitigation may be required for any adverse impacts to fisheries and wildlife resources, natural systems and sensitive areas.

d. Discharge of untreated effluent over or into the shorelines of the county is prohibited.

C. Development Standards

3. Location of other facilities near the proposed project and if the location is to include other types of facilities;

4. Proposed method of construction and plans to control erosion and turbidity during construction;

5. Plans for restoration of areas disturbed during construction;

6. Possibility of locating proposed facility within existing utility right-of-way; and

7. Geotechnical Report when proposed in a geologically hazardous area.
WAC 173-26-231(3)(a)(iii)(B) New structural stabilization measures shall not be allowed except when necessity is demonstrated in the following manner:

(I) To protect existing primary structures:

• New or enlarged structural shoreline stabilization measures for an existing primary structure, including residences, should not be allowed unless there is conclusive evidence, documented by a geotechnical analysis, that the structure is in danger from shoreline erosion caused by tidal action, currents, or waves. Normal sloughing, erosion of steep bluffs, or shoreline erosion itself, without a scientific or geotechnical analysis, is not demonstration of need. The geotechnical analysis should evaluate on-site drainage issues and address drainage problems away from the shoreline edge before considering structural shoreline stabilization.

• The erosion control structure will not result in a net loss of shoreline ecological functions.

(II) In support of new nonwater-dependent development, including single-family residences, when all of the conditions below apply:

• The erosion is not being caused by upland conditions, such as the loss of vegetation and drainage.

• Nonstructural measures, such as placing the development further from the shoreline, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient.

• The need to protect primary structures from damage due to erosion is demonstrated through a geotechnical report. The damage must be caused by natural processes, such as tidal action, currents, and waves.

• The erosion control structure will not result in a net loss of shoreline ecological functions.

(III) In support of water-dependent development when all of the conditions below apply:

• The erosion is not being caused by upland conditions, such as the loss of vegetation and drainage.

• Nonstructural measures, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient.

• The need to protect primary structures from damage due to erosion is demonstrated through a geotechnical report.

• The erosion control structure will not result in a net loss of shoreline ecological functions.

(IV) To protect projects for the restoration of ecological functions or hazardous substance remediation projects pursuant to chapter 70.105D RCW when all of the conditions below apply:
• Nonstructural measures, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient.

• The erosion control structure will not result in a net loss of shoreline ecological functions.