

Chapter 19.100

INTRODUCTION AND APPROVAL PROCEDURES

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19.100.105 Statement of purpose.

The purpose of the ordinance codified in this title is to identify and protect critical areas as required by the Growth Management Act of 1990 (Chapter 17, Laws of 1990). Critical areas include wetlands, fish and wildlife habitat conservation areas, geologically hazardous areas, frequently flooded areas, and critical aquifer recharge areas, as defined in this title. This title supplements the development requirements contained in the various chapters of the Kitsap County zoning ordinance (Title [17](#)) by providing for additional controls and measures to protect critical areas. This title is adopted under the authority of Chapters [36.70](#) and [36.70A](#) RCW and the Kitsap County Code, as now or hereafter amended.

A. Goal Statement. It is the goal of Kitsap County that the beneficial functions and values of critical areas be preserved, and potential dangers or public costs associated with the inappropriate use of such areas be minimized by reasonable regulation of uses within, adjacent to or directly affecting such areas, for the benefit of present and future generations.

B. Policy Goals. To implement the purpose and goal stated above, it is the intent of this title to accomplish the following:

1. Conserve and protect the environmental factors that add to the quality of life within the federal, state and county regulations that protect critical areas for the benefit of current and future residents of Kitsap County and the state of Washington.

1 2. Protect the public against avoidable losses from maintenance and replacement
2 of public facilities, property damage, costs of publicly subsidizing mitigation of
3 avoidable impacts, and costs for public emergency rescue and relief operations.

4 3. Identify critical areas and their environmental functions and values.

5 4. Protect critical areas and their functions and values by regulating use and
6 management within these areas and adjacent lands while allowing for reasonable
7 use and protection of property rights as provided for in state and federal law.

8 5. Preserve the habitat, water quality, and water quantity functions and values of
9 wetlands.

10 6. Protect water quality by controlling erosion and carefully siting uses and
11 activities that can detrimentally affect stream flows or aquatic habitat quality.

12 7. Guide development proposals to the most environmentally suitable and stable
13 portion of a development site.

14 8. Avoid potential damage due to geological hazards or flooding.

15 9. Preserve natural flood control and storm water storage.

16 10. Maintain groundwater recharge and prevent the contamination of
17 groundwater.

18 ~~11. Prevent cumulative adverse environmental impacts to water, wetlands, fish and~~
19 ~~wildlife habitats, frequently flooded areas, geologically hazardous areas, and aquifer~~
20 ~~recharge areas. Consider the cumulative impacts of the proposed action on~~
21 ~~watershed processes to facilitate the goal of no net loss of critical areas. Such~~
22 ~~impacts shall include those to wildlife, habitat, and migration corridors; water quality~~
23 ~~and quantity; and other geologic or processes that relate to critical area condition or~~
24 ~~functions and values.~~

25 12. Whenever mitigation is required, pursue as a preferred option, restoration and
26 enhancement of previously impacted critical areas and their buffers.

27 ~~13. Encourage applicants to consider the potential impacts of climate change and~~
28 ~~sea level rise, particularly if development is near marine shorelines, adjacent flood~~
29 ~~hazard areas, or low-lying areas.~~

30 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 4, 2005: Ord. 217 (1998) § 3 (part), 1998)

31 | **19.100.110 Applicability.**

- 1 A. Kitsap County shall not grant any permit, license or other development approval for any
2 development proposal regulated by this title, except for those in compliance with the provisions
3 of this title. This includes permits, licenses or other development approval to alter the
4 conditions of any land, water or vegetation, or to construct or alter any structure or
5 improvement. Failure to comply with the provisions of this title shall be considered a violation
6 and subject to enforcement procedures as provided for in this title.
- 7 B. This title applies to all uses and activities within areas or adjacent to areas designated as
8 regulated critical areas unless identified as exempt in Section [19.100.125](#). The following permits
9 and approvals shall be subject to and coordinate with the requirements of this title: site
10 development activity permit, site plan approval, subdivision or short subdivision, building
11 permit, performance-based development, shoreline substantial development, variance,
12 conditional use permit, certain forest practice permits (Class IV general, Class III conversion
13 option harvest plans), other permits leading to the development or alteration of land, and
14 rezones if not combined with another development permit.
- 15 C. Nonproject actions including, but not limited to, rezones, annexations, and the adoption of
16 plans and programs, shall be subject to critical area review.
- 17 D. This title is an overlay to the zoning ordinance. Activities regulated by the zoning ordinance
18 are also subject to critical areas requirements but do not require an additional county permit.
19 Under limited circumstances, additional state or federal permits may be required.
- 20 E. The development standards and other requirements of this title shall be applied to uses
21 and activities for any permit review or approval process otherwise required by county
22 ordinances.
- 23 F. Uses and activities in critical areas or their buffers for which no permit or approval is
24 required by any other county ordinance remain subject to the development standards and
25 other requirements of this title. While this title does not require a review or approval process
26 for such uses and activities, they remain subject to the title.
- 27 G. For the purpose of this title, the area of review is defined as the critical area and its largest
28 potential buffer or setback. This defines the area of review only. Refer to
29 Chapters [19.200](#) through [19.600](#) for specific development standards.

30 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 5, 2005: Ord. 217 (1998) § 3 (part), 1998)

31 | **19.100.115 Relationship to other county regulations.**

32 When any provision of any other chapter of the Kitsap County Code conflicts with this title, that
33 which provides the most protection to the critical area, as determined by the department, shall
34 apply.

1 Applications for permits and approvals are subject to the provisions of this title as well as to
2 other provisions of state and county law, which include, but are not limited to the following:

- 3 A. Title [2](#), Government;
- 4 B. Title [9](#), Health, Welfare and Sanitation;
- 5 C. Title [12](#), Storm Water Drainage;
- 6 D. Title [14](#), Buildings and Construction;
- 7 E. Title [15](#), Flood Hazard Areas;
- 8 F. Title [16](#), Land Division and Development;
- 9 G. Title [17](#), Zoning;
- 10 H. Title [18](#), Environment;
- 11 I. Title [21](#), Land Use and Development Procedures;
- 12 J. Title [22](#), Shoreline Master Program;
- 13 K. Chapter [36.70A](#) RCW, Growth Management Act;
- 14 L. Chapter [90.58](#) RCW, Shoreline Management Act;
- 15 M. Chapter [43.21C](#) RCW, State Environmental Policy Act.

16 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 6, 2005: Ord. 217 (1998) § 3 (part), 1998)

17 | **19.100.120 Review authority.**

18 A. In evaluating a request for a development proposal regulated by this title, it shall be the
19 responsibility of the department to determine the following:

- 20 1. The nature and type of critical area and the adequacy of any special reports
21 required in applicable sections of this title;
- 22 2. Whether the development proposal is consistent with this title, by granting,
23 denying or conditioning projects;

1 3. Whether proposed alterations to critical areas are appropriate under the
2 standards contained in this title, or whether it is necessary for the applicant to seek a
3 variance or other exception; and

4 4. Whether the protection mechanisms and the mitigation and monitoring plans
5 and bonding measures proposed by the applicant are sufficient to protect the public
6 health, safety and welfare consistent with the goals, purposes and objectives of this
7 title, and if not, condition the permit or approval accordingly.

8 B. The department shall have the administrative authority to reduce buffers and building
9 setbacks as outlined in specific critical area sections of this title.

10 C. Where projects have been approved with conditions to protect critical areas under previous
11 protection policies in effect prior to the ordinance codified in this title, those conditions will
12 apply. Nevertheless, this title shall apply to new applications where the department determines,
13 based on review of current information that the prior conditions will result in a detrimental
14 impact to a critical area.

15 D. Time Limitations.

16 1. Expiration of Approval.

17 a. Approvals granted under this title shall be valid for the same time period as
18 the underlying permit (e.g., preliminary plat, site development, building permit).
19 If the underlying permit does not contain a specified expiration date, then
20 approvals granted under this title shall be in writing and shall be valid for a
21 period of three years from the date of issue, unless a longer period is specified
22 by the department.

23 b. The approval shall be considered null and void upon expiration, unless a
24 time extension is requested and granted as set forth in subsection (D)(2) of this
25 section.

26 2. Time Extensions.

27 a. The applicant or owner(s) may request in writing a one-year extension of
28 the original approval.

29 b. Knowledge of the expiration date and initiation of a request for a time
30 extension is the responsibility of the applicant or owner(s).

31 c. A written request for a time extension shall be filed with the department at
32 least thirty days prior to the expiration of the approval.

1 d. Upon filing of a written request for a time extension, a copy shall be sent to
2 each party of record together with governmental departments or agencies that
3 were involved in the original approval process. By letter, the department shall
4 request written comments be delivered to the department within fifteen days of
5 the date of the letter.

6 e. Prior to the granting of a time extension, the department may require a new
7 application(s), updated study(ies), and fee(s) if:

8 i. The original intent of the approval is altered or enlarged by the renewal;

9 ii. The circumstances relevant to the review and issuance of the original
10 approval have changed substantially; or

11 iii. The applicant failed to abide by the terms of the original approval.

12 f. The department has the authority to grant or deny any requests for time
13 extensions based upon demonstration by the applicant of good cause for the
14 delay. Time extensions shall be granted in writing and documented in the file.

15 g. If approved, the one-year time extension shall be calculated from the date
16 of granting said approval.

17 E. The department or applicant may request, at the applicant's expense, third party review as
18 described in Section [21.04.140](#).

19 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 8, 2005: Ord. 217 (1998) § 3 (part), 1998)

20 **19.100.125 Exemptions.**

21 The following activities are exempt from the requirements of this title:

22 ~~A. Emergencies that threaten the public health, safety and welfare. An "emergency" is an~~
23 ~~unanticipated and immediate threat to public health, safety, or the environment that~~
24 ~~requires action within a time too short to allow compliance with this title. Emergency~~
25 ~~alterations or developments provided that:~~

26 ~~1. Emergency construction does not include development of new permanent~~
27 ~~structures where none previously existed. Where new protective structures~~
28 ~~are deemed by the Director to be appropriate means to address the~~
29 ~~emergency situation, upon abatement of the emergency situation the new~~
30 ~~structure shall be removed or any permit which would have been required,~~
31 ~~absent an emergency, shall be obtained;~~

- 1 2. The emergency action shall have the least possible impacts to the critical
2 area and its buffer as is reasonably judged in real time while still adequately
3 addressing the emergency situation;

- 4 3. The person or authorized representative of the agency undertaking such
5 action shall notify the department within ten (10) working days following
6 commencement of the emergency alteration or development. Within thirty
7 (30) days, the department shall determine if the action taken was within the
8 scope of the emergency actions allowed in this Subsection. If the
9 department determines that the action taken, or any part of the action, was
10 beyond the scope of an allowed emergency action, then the enforcement
11 provisions of KCC 19.100.165 shall apply; and

- 12 4. After the emergency, the person or authorized representative of the agency
13 undertaking the action shall conduct necessary restoration and/or
14 mitigation for any impacts to the critical area and buffers resulting from the
15 emergency action in accordance with an approved critical areas report and
16 mitigation plan. The person or authorized representative of the agency
17 undertaking the action shall apply for review, and the alteration, critical
18 areas report, and mitigation plan shall be reviewed by the department in
19 accordance with the review procedures contained herein.

20 B. Preexisting and ongoing agricultural activities on lands containing critical areas, as defined
21 in Section [19.150.285](#).

22 C. Normal and routine maintenance and operation of preexisting retention/detention
23 facilities, biofilters and other storm water management facilities, irrigation and drainage
24 ditches, farm ponds, fish ponds, manure lagoons, and livestock water ponds, provided that
25 such activities shall not involve conversion of any wetland not currently being used for such
26 activity.

27 D. Structural alterations to buildings, otherwise allowed under the Kitsap County Code and
28 that do not alter the structural footprint or introduce new adverse impacts to an adjacent
29 critical area.

30 E. Normal and routine maintenance or repair of existing utility structures within a right-of-way
31 or within existing utility corridor or easements, including the cutting, removal and/or mowing of
32 vegetation above the ground so long as in accordance with best management practices.

33 F. Forest practices conducted pursuant to Chapter [76.09](#) RCW, except Class IV (general
34 conversions) and conversion option harvest plans (COHP).

35 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 7, 2005: Ord. 217 (1998) § 3 (part), 1998)

1 | **19.100.130 Standards for existing development.**

2 | A. Existing Nonconforming Structures.

3 | 1. "Existing nonconforming development" means a development that was lawfully
4 | constructed, approved or established prior to the effective date of the ordinance
5 | codified in this title, but does not conform to present regulations or standards of this
6 | title.

7 | 2. Structures in existence on the effective date of the ordinance codified in this title
8 | that do not meet the setback or buffer requirements of this title may be remodeled
9 | or reconstructed provided that the new construction or related activity does not
10 | further intrude into the critical area or its associated buffers.

11 | 3. ~~New construction or related activity connected with an existing single-family~~
12 | ~~dwelling shall not be considered further intruding into an associated buffer so long~~
13 | ~~as the footprint of the structure lying within the critical area or its buffer is not~~
14 | ~~increased by more than twenty percent and no portion of the new structure is~~
15 | ~~located closer to the critical area than the existing structure; and provided further,~~
16 | ~~that reconstruction or remodeling meets the requirements of Title 15 (Flood Hazard~~
17 | ~~Areas) and shall only be allowed if it does not create or continue a circumstance~~
18 | ~~where personal or property damage is likely due to the nature of the critical area.~~
19 | New construction or related activity connected with an existing single-family dwelling
20 | may be considered exempt from additional critical area permitting, provided no such
21 | exemption has been previously granted and all the following criteria are met:

- 22 | a) No portion of the new structure or addition is located closer to the critical
23 | area or buffer than the existing structure;
- 24 | b) Any side(s) of the existing structure within the critical area or buffer may not
25 | expand laterally by more than 20% of the existing side in length;
- 26 | c) Expansion is not feasible to the side opposite the critical area or buffer;
- 27 | d) Reconstruction or remodeling meets the requirements of Title 15 (Flood
28 | Hazard Areas) and does not create or continue a circumstance where
29 | personal or property damage is likely due to the nature of the critical area;
- 30 | e) The expansion does not result in the loss of significant trees; and
- 31 | f) A Habitat Management Plan or Wetland Report that meets the requirements
32 | contained within Chapter 19.700 (Special Reports) is provided to support and
33 | mitigate for the expanded footprint.

34 | 4. Nonconforming structures which are damaged or destroyed by fire, explosion, or
35 | other casualty, may be restored or replaced if the application is made for the
36 | necessary permits within one year of the date of the damage or destruction
37 | occurred, and the reconstruction is completed within two years of permit issuance or
38 | the conclusion of any appeal on the permit. If a home is demolished, the date used

1 to determine when the damage or destruction occurred will be the date of final
2 inspection approval of the demolition permit. The reconstruction or restoration shall
3 not serve to expand, enlarge or increase the nonconformity except as allowed
4 through the provisions of this section.

5 B. Danger Tree Removal in a Critical Area or Buffer. Where a threat to human life or
6 permanent structure is demonstrated, the department may allow removal of danger ~~or hazard~~
7 trees subject to the following criteria:

8 1. The method of tree removal shall be the minimum necessary and not adversely
9 affect riparian ecosystem to the maximum extent practicable ~~is the minimum necessary~~
10 ~~to balance protection of the critical area and its buffer with protection of life and~~
11 ~~property; and~~

12 2. Damage to remaining trees and vegetation in the riparian protection area shall be
13 avoided and minimized to the maximum extent practicable; and

14 3. (2) If the critical area or its buffer shall be replanted as determined by the department
15 and the property owner. The department shall coordinate review with the property
16 owner and Washington State Department of Fish and Wildlife as determined necessary
17 to assure habitat protection.

18 The department may require the applicant to consult with a professional forester or a certified
19 arborist through a risk assessment report, or by the department through a danger tree site
20 evaluation permit, prior to tree removal. Danger tree abatement can sometimes be achieved by
21 felling the tree or topping the tree. Habitat needs may require leaving the fallen tree or snag in
22 the riparian corridor or maintaining a high stump for wildlife habitat.

23 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 9, 2005: Ord. 217 (1998) § 3 (part), 1998)

24 **19.100.135 Variances.**

25 A. A variance in the application of the regulations or standards of this title to a particular piece
26 of property may be granted by Kitsap County, when it can be shown that the application meets
27 all of the following criteria:

28 1. Because of special circumstances applicable to the subject property, including
29 size, shape, or topography, the strict application of this title is found to deprive the
30 subject property of rights and privileges enjoyed by other properties in the vicinity;
31 provided, however, the fact that those surrounding properties have been developed
32 under regulations in force prior to the adoption of this ordinance shall not be the
33 sole basis for the granting of a variance.

34 2. The special circumstances referred to in subsection (A)(1) of this section are not
35 the result of the actions of the current or previous owner.

1 3. The granting of the variance will not result in substantial detrimental impacts to
2 the critical area, public welfare or injurious to the property or improvements in the
3 vicinity and area in which the property is situated or contrary to the goals, policies
4 and purpose of this title.

5 4. The granting of the variance is the minimum necessary to accommodate the
6 permitted use.

7 5. No other practicable or reasonable alternative exists. (See Definitions,
8 Chapter [19.150](#).)

9 6. A mitigation plan [that meets the requirements of Chapter 19.700](#) (where
10 required) has been submitted and is approved for the proposed use of the critical
11 area.

12 B. Kitsap County shall conduct a public hearing on all variance applications pursuant to the
13 review process and notice requirements established in Title [21](#) (Land Use and Development
14 Procedures), as now or hereafter amended.

15 C. Except when application of this title would deny all reasonable use of the property
16 (Section [19.100.140](#)), an applicant who seeks an exception from the standards and
17 requirements of this title shall pursue relief by means of a variance as provided for in this title.

18 D. Requests for variances shall include the application requirements of
19 Section [19.100.155](#) (General application requirements), or [19.200.215](#) (Wetland review
20 procedures), whichever is applicable.

21 E. The department shall review administrative buffer reductions based on the criteria and
22 standards referenced in this chapter.

23 F. The department may grant variances for public utilities to the substantive or procedural
24 requirements of this title when:

25 1. Application of this title to the utility's activities would be inconsistent with the
26 Comprehensive Plan and the utility's public service obligations;

27 2. The proposed utility activity does not pose an unreasonable threat to the public
28 health, safety or welfare on or off the development proposal site; and

29 3. Any alterations permitted to these critical areas shall be the minimum necessary
30 to reasonably accommodate the proposed utility activity and mitigate when feasible.

1 G. Where variances to dimensional standards in Chapter [17.420](#) might result in eliminating or
2 reducing the need for a critical area variance, those variances shall be considered and
3 exhausted prior to consideration of a critical area variance.

4 (Ord. 617 (2022) § 5, 2022; Ord. 545 (2017) § 5 (Appx. (part)), 2017; Ord. 351 (2005) § 10, 2005; Ord. 217 (1998) § 3 (part), 1998)

5 | **19.100.140 Reasonable use exception.**

6 If the application of this title would deny all reasonable use of the property, the applicant may
7 apply for a reasonable use exception pursuant to this section:

8 A. The applicant shall apply to the department, and the department shall prepare a
9 recommendation to the hearing examiner. The applicant may apply for a reasonable use
10 exception without first having applied for a variance if the requested exception includes relief
11 from standards for which a variance cannot be granted pursuant to the provisions of the
12 section. The property owner and/or applicant for a reasonable use exception has the burden of
13 proving that the property is deprived of all reasonable uses. The examiner shall review the
14 application and shall conduct a public hearing pursuant to the provisions of Title [21](#) (Land Use
15 and Development Procedures). The examiner shall make a final decision based on the following
16 criteria:

- 17 1. The application of this title would deny all reasonable use of the property;
- 18 2. There is no other reasonable use which would result in less impact on the critical
19 area;
- 20 3. The proposed development does not pose an unreasonable threat to the public
21 health, safety or welfare on or off the development proposal site and is consistent
22 with the general purposes of this title and the public interest, and does not conflict
23 with the Endangered Species Act or other relevant state or federal laws; and
- 24 4. Any alterations permitted to the critical area shall be the minimum necessary to
25 allow for reasonable use of the property.

26 B. Any authorized alterations of a critical area under this section shall be subject to conditions
27 established by the examiner including, but not limited to, mitigation under an approved
28 mitigation plan [that meets the requirements of Chapter 19.700 \(Special Reports\)](#).

29 (Ord. 545 (2017) § 5 (Appx. (part)), 2017; Ord. 351 (2005) § 11, 2005; Ord. 217 (1998) § 3 (part), 1998)

30 | **19.100.145 Special use review.**

31 Special use review is an administrative process unless the underlying permit requires a public
32 hearing. Special use review may be requested for revisions to existing permits, or when review
33 by external authorities would be necessary to assure the department applies reasonable

1 conditions to minimize, rectify, or compensate for impacts to the critical area or buffer. Those
2 external authorities include, but are not limited to federal agencies, state agencies, tribes,
3 public utilities, and Kitsap public health.

4 The department is authorized to take action on permits as required by this title. Development
5 identified as a special use review may be approved, approved with conditions, or denied
6 according to the procedures and criteria outlined in this section.

7 A. The department may approve a permit after review of the application and any required
8 special reports submitted in accordance with this title. The department shall determine
9 whether the use or activity cannot be avoided because no reasonable or practicable alternative
10 exists, the proposed use is consistent with the spirit and intent of this title and it will not cause
11 adverse impacts to the critical area or the buffer which cannot be mitigated. In taking action to
12 approve a special use review, the department may attach reasonable conditions.

13 B. The department shall deny a special use review request when it finds that the proposed
14 use or activity is inconsistent with this title and/or will cause adverse impacts to the critical area
15 or the buffer, which cannot be adequately mitigated and/or avoided.

16 C. Special use review determinations are appealable to the hearing examiner pursuant to
17 Section [19.100.150](#) (Appeals).

18 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

19 | **19.100.150 Appeals.**

20 A. Appealable Actions. The following decisions or actions required by this title may be
21 appealed:

22 1. Any decision to approve, condition or deny a development proposal, or any
23 disagreement on conclusions, methodology, rating systems, etc. between the
24 department and such person or firm which prepares special reports pursuant to
25 Chapter [19.700](#) may be appealed by the applicant or affected party to the Kitsap
26 County hearing examiner.

27 2. Any decision to approve, condition or deny a variance application by the
28 department may be appealed by the applicant or affected party to the Kitsap County
29 hearing examiner.

30 3. Any decision to require, or not require a special report pursuant to this title may
31 be appealed by the applicant or affected party to the Kitsap County hearing
32 examiner.

1 B. Appeal Process. The appeals process will be pursuant to procedures in Chapter [21.04](#), or as
2 amended hereafter.

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 12, 2005: Ord. 217 (1998) § 3 (part), 1998. Formerly 19.100.145)

4 **19.100.155 General application requirements.**

5 A. All applicants for new development are encouraged to meet with the department prior to
6 submitting an application subject to Title [17](#). Fees for a staff consultation may be applied
7 towards the application fee for the same project. The purpose of this meeting is to discuss
8 Kitsap County's zoning and applicable critical area requirements, to review any conceptual site
9 plans prepared by the applicant and to identify potential impacts and mitigation measures.
10 Such conference shall be for the convenience of the applicant, and any recommendations shall
11 not be binding on the applicant or the county.

12 B. The applicant must comply with the standards and requirements of this title as well as
13 standards relating to Title [12](#) (Storm Water Drainage) set forth by the department, as now or
14 hereafter amended. To expedite the permit review process, the department shall be the lead
15 agency on all work related to critical areas. Development may be prohibited in a proposed
16 development site based on criteria set forth in this title; the applicant should first determine
17 whether this is the case before applying for permits from the department.

18 C. Application for development proposals, reasonable use exception or variances regulated by
19 this title or for review of special reports shall be made with the department by the property
20 owner, lessee, contract purchaser, other person entitled to possession of the property, or by an
21 authorized agent as listed in Chapter [19.700](#) (Special Reports).

22 D. Mitigation Sequencing. An applicant for a development proposal or alteration shall apply
23 the following sequential measures, which appear in order of priority, to avoid impacts to critical
24 areas and critical area buffers. Lower priority measures shall be applied only when higher
25 priority measures are determined to be infeasible or inapplicable:

- 26 1. Avoiding the impact by not taking a certain action;
 - 27 2. Minimizing the impact by:
 - 28 a. Limiting the degree or magnitude of the action with appropriate technology; or
 - 29 b. Taking affirmative steps, such as project redesign, relocation or timing;
 - 30 3. Rectifying the impact to critical areas by repairing, rehabilitating or restoring the
31 affected environment;
 - 32 4. Reducing or eliminating the impact over time by preservation and maintenance
33 operations during the life of the action;
 - 34 5. Compensating for the adverse impact by replacing, enhancing, or providing substitute
35 resources or environments; and
 - 36 6. Monitoring the impact, hazard or success of required mitigation and taking remedial
37 action.
- 38

1 ~~E.D.~~ A filing fee in an amount established under Chapter [21.10](#) shall be paid to the
2 department at the time an application for a permit relating to a critical area or a special report
3 review is filed.

4 ~~F.E.~~ Applications for any development proposal subject to this title shall be reviewed by the
5 department for completeness and consistency or inconsistency with this title.

6 ~~G.F.~~ At every stage of the application process, the burden of demonstrating that any
7 proposed development is consistent with this title is upon the applicant.

8 ~~H.G.~~ All applications for development subject to this title shall include a site plan drawn to
9 scale identifying locations of critical areas, location of proposed structures and activities,
10 including clearing and grading and general topographic information as required by the
11 department. If the department determines that additional critical areas are found on the
12 subject property, the applicant shall amend the site plan to identify the location of the critical
13 area. When it is determined that regulated activities subject to the provisions of the State
14 Environmental Policy Act (SEPA) as implemented by Title [18](#) (Environment) are likely to cause a
15 significant, adverse environmental impact to the critical areas identified in this title that cannot
16 be adequately mitigated through compliance with this title, environmental assessment and
17 mitigation measures may be imposed consistent with the procedures established in
18 Title [18](#) (Environment).

19 ~~I.H.~~ Prior to taking action on a zone reclassification or a Comprehensive Plan amendment, the
20 proponent shall complete an environmental review to confirm the nature and extent of any
21 critical areas on or adjacent to the property; determine if the subsequent development
22 proposal would be consistent with this title; and determine whether mitigation or other
23 measures would be necessary if the proposal were approved. Such review shall occur prior to
24 any SEPA threshold determination. Findings of such review may be used to condition or
25 mitigate the impact through the SEPA threshold determination or to deny the proposal if the
26 impacts are significant and cannot be mitigated.

27 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 14, 2005: Ord. 217 (1998) § 3 (part), 1998)

28 | **19.100.160 Inventory provisions.**

29 The approximate location and extent of mapped critical areas within Kitsap County are shown
30 on the maps adopted as part of this title, and incorporated herein by this reference. These
31 maps shall be used only as a general guide for the assistance of the department and the public;
32 the type, extent and boundaries may be determined in the field by a qualified specialist or staff
33 person according to the requirements of this title. In the event of a conflict between a critical
34 area location shown on the county's maps and that of an on-site determination, the on-site
35 determination will apply.

36 Kitsap County will review map inventory information of all critical areas as it becomes available.
37 Mapping will include critical areas that are identified through site specific analysis by local, state

1 and federal agencies, the Kitsap conservation district, tribal governments, citizen groups and
2 other sources.

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 15, 2005: Ord. 217 (1998) § 3 (part), 1998)

4 **19.100.165 Enforcement.**

5 A. Authorization. The director is authorized to enforce this title, and to designate county
6 employees as authorized representatives of the department to investigate suspected violations
7 of this title, and to issue orders to correct violations and notices of infraction.

8 B. Right of Entry. When it is necessary to make an inspection to enforce the provisions of this
9 title, or when the director or his/her designee has reasonable cause to believe that a condition
10 exists on property that is contrary to or in violation of this title, an authorized official may
11 investigate and in doing so may enter upon land when consent has been given or as otherwise
12 allowed by law.

13 C. Stop Work Orders. Whenever any work or activity is being done contrary to the provisions
14 of this title the director or his/her designee may order the work stopped by notice in writing,
15 served on any persons engaged in the doing or causing such work to be done, or by posting the
16 property, and any such persons shall forthwith stop such work or activity until authorized by
17 the director or his/her designee to proceed.

18 D. Penalties. The violation of any provision of this title shall constitute a Class I civil infraction.
19 Each violation shall constitute a separate infraction for each and every day or portion thereof
20 during which the violation is committed, continued, or permitted. Infractions shall be processed
21 in accordance with the provisions of Chapter [2.116](#), as now or hereafter amended.

22 E. Imminent and Substantial Dangers. Notwithstanding any provisions of these regulations,
23 the director or his/her designee may take immediate action to prevent an imminent and
24 substantial danger to the public health, welfare, safety or the environment by the violation of
25 any provision of this title.

26 F. Other Legal or Equitable Relief. Notwithstanding the existence or use of any other remedy,
27 the director or his/her designee may seek legal or equitable relief to enjoin any acts or practices
28 or abate any conditions, which constitute or will constitute a violation of the provisions of this
29 title.

30 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 16, 2005: Ord. 217 (1998) § 3 (part), 1998)

31 **19.100.170 List of qualified consultants.**

32 As a resource to applicants, the department will maintain a list of arborists, habitat biologists,
33 hydrogeologists, geological engineers, geologists, land surveyors, and wetlands scientists who,
34 at the time of listing, are licensed in the state of Washington and meet the minimum

1 qualifications of Kitsap County Code to prepare certain documents required by this title. The list
2 will contain those consultants who have responded to Kitsap County's call to be listed. Kitsap
3 County makes no representation or guarantee as to the quality of services performed by those
4 listed, and reserves the right to discontinue the list at any time.

5 (Ord. 617 (2022) § 35, 2022)

6

DRAFT

Chapter 19.150
DEFINITIONS

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43 | **19.150.050 Generally.**

1 As used in this title, the following terms have the meanings given in this chapter.

2 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

3 | **19.150.100 Adjacent.**

4 “Adjacent,” for the purposes of this title, means within an area containing the critical area in
5 question for the development proposal and its largest potential buffer or setback. This adjacent
6 area is for review purposes only.

7 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

8 | **19.150.105 Agricultural activities.**

9 “Agricultural activities” means the normal actions associated with the production of crops such
10 as plowing, cultivating, minor drainage, and harvesting; and/or raising or keeping of livestock,
11 including operation and maintenance, and repair of farm and stock ponds, drainage ditches,
12 irrigation systems, and normal operation, maintenance, and repair of existing serviceable
13 agricultural structures, facilities, or improved areas. The term “agricultural activities” as used
14 within this title does not include the practice of aquaculture. Forest practices regulated under
15 Chapter [76.09](#) RCW and Title [222](#) WAC are not included in this definition.

16 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

17 | **19.150.110 Alteration.**

18 “Alteration” means a human-induced action that changes the existing condition of a critical area
19 or its buffer. Alterations include but are not limited to: grading; grubbing; dredging;
20 channelizing; cutting, clearing, relocating or removing vegetation, except noxious weeds
21 identified by the Washington State Department of Agriculture or the Kitsap County Cooperative
22 Extension; applying herbicides or pesticides or any hazardous or toxic substance; discharging
23 pollutants; grazing domestic animals; modifying for surface water management purposes; or
24 any other human activity that changes the existing vegetation, hydrology, wildlife or wildlife
25 habitat.

26 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

27 | **19.150.115 Anadromous fish.**

28 “Anadromous fish” means fish whose life cycle includes time spent in both fresh and salt water.

29 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

30 | **19.150.120 Applicant.**

1 “Applicant” means the person, party, firm, corporation or legal entity, or agent thereof that
2 proposes a development of property in Kitsap County.

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

4 | **19.150.125 Aquifer.**

5 “Aquifer” means a saturated body of rock, sand, gravel or other geologic material that is
6 capable of storing, transmitting and yielding water to a well.

7 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.130)

8 | **19.150.130 Aquifer recharge.**

9 “Aquifer recharge” means the process by which water is added to an aquifer. It may occur
10 naturally by the percolation (infiltration) of surface water, precipitation, or snowmelt from the
11 ground surface to a depth where the earth materials are saturated with water. The aquifer
12 recharge can be augmented by “artificial” means through the addition of surface water (e.g.,
13 land application of wastewater or storm water) or by the injection of water into the
14 underground environment (e.g., drainfields and drywells).

15 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.135)

16 | **19.150.135 Aquifer recharge area.**

17 “Aquifer recharge area” means those areas overlying aquifer(s) where natural or artificial
18 sources of water can move downward to an aquifer(s).

19 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.140)

20 | **19.150.140 Aquifer vulnerability.**

21 “Aquifer vulnerability” means the combined effect of hydrogeological susceptibility to
22 contamination and the contamination loading potential as indicated by the type of activities
23 occurring on a project area.

24 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.145)

25 | **19.150.145 Aquitard.**

26 “Aquitard” means an underground geologic layer that has low permeability.

27 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.147)

28 | **19.150.150 Bank stabilization.**

1 “Bank stabilization” means lake and stream modification including vegetation enhancement,
2 used for the purpose of retarding erosion, protecting channels, and retaining uplands.

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

4 | **19.150.155 Best available science.**

5 “Best available science” means scientifically valid information in accordance with WAC [365-195-](#)
6 [900](#), as now or hereafter amended, that is used to develop and implement critical areas policies
7 or regulations.

8 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

9 | **19.150.160 Best management practices (BMPs).**

10 “Best management practices” or “BMPs” means conservation practices (physical, structural
11 and/or managerial) or systems of practices and management measures typical of a particular
12 industry or use that:

13 A. Control soil loss and reduce water quality degradation caused by nutrients, pathogens,
14 bacteria, toxic substances, pesticides, oil and grease, and sediment;

15 B. Minimize adverse impacts to surface water and groundwater flow, circulation patterns, and
16 to the chemical, physical, and biological characteristics of critical areas.

17 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

18 | **19.150.165 Bog.**

19 “Bog” means a low-nutrient, acidic wetland with organic soils and characteristic bog plants, as
20 described in Washington State Wetland Rating System for Western Washington: 2014 Update
21 (Washington State Department of Ecology Publication No. 14-06-29, Olympia, WA October
22 2014).

23 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

24 | **19.150.170 Buffer.**

25 “Buffer” means an area that is intended to protect the functions and values of critical areas.
26 Protecting these functions and values includes the preservation of existing native and
27 nonnative vegetation where it exists, unless otherwise required to be replaced with native
28 vegetation through mitigation or voluntarily enhanced or restored.

29 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

1 | **19.150.175 Buffer, standard.**

2 | “Standard buffer” means the buffer width established by each chapter of this title before any
3 | buffer ~~adjustments~~ modifications are applied.

4 | (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.172)

5 | **19.150.180 Candidate species (state listed).**

6 | “Candidate species (state listed)” means species under review by the Department of Fish and
7 | Wildlife (WDFW) for possible listing as endangered, threatened or sensitive. A species will be
8 | considered for state-candidate designation if sufficient scientific evidence suggests that its
9 | status may meet criteria defined for endangered, threatened, or sensitive in WAC [220-610-](#)
10 | [110](#) as now or hereafter amended. Currently listed state-threatened or state-sensitive species
11 | may also be designated as a state-candidate species if their status is in question. State-
12 | candidate species will be managed by the Department of Fish and Wildlife, as needed, to
13 | ensure the long-term survival of populations in Washington. They are listed in WDFW, Policy
14 | 5301, or as amended.

15 | (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.175)

16 | **19.150.185 Channel migration zone (CMZ).**

17 | “Channel migration zone” or “CMZ,” as defined by WAC [173-26-020\(7\)](#), as now or hereafter
18 | amended, means the area along a river or stream within which the channel(s) can be
19 | reasonably predicted to migrate over time as a result of natural and normally occurring
20 | hydrological and related processes when considered with the characteristics of the river or
21 | stream and its surroundings.

22 | (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.180)

23 | **19.150.190 Clearing.**

24 | “Clearing” means the destruction, disturbance or removal of vegetation by physical, mechanical,
25 | chemical or other means.

26 | (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.185)

27 | **19.150.195 Compensation.**

28 | “Compensation” means replacement of project-induced critical area (e.g., wetland) losses of
29 | acreage or functions.

30 | (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.190)

1 | **19.150.200 Creation.**

2 "Creation" means the manipulation of the physical, chemical, or biological characteristics
3 present to develop a wetland on an upland or deepwater site, where a wetland did not
4 previously exist. Activities typically involve excavation of upland soils to elevations that will
5 produce a wetland hydroperiod and hydric soils, and support the growth of hydrophytic plant
6 species.

7 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.195)

8 | **19.150.205 Conversion option harvest plan (COHP).**

9 As it relates to forest practices, a "COHP" means a plan for landowners who want to harvest
10 their land but wish to maintain the option for conversion pursuant to WAC [222-20-050](#).
11 "Conversion" to a use other than commercial timber operation shall mean a bona fide
12 conversion to an active use which is incompatible with timber growing.

13 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.200)

14 | **19.150.210 Critical aquifer recharge areas.**

15 "Critical aquifer recharge areas" means those areas with a critical recharging effect on aquifers
16 used for potable water, including areas where an aquifer that is a source of drinking water is
17 vulnerable to contamination that would affect the potability of the water, or is susceptible to
18 reduced recharge.

19 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

20 | **19.150.215 Critical areas.**

21 "Critical areas" means those areas and ecosystems identified as: (A) wetlands; (B) areas with a
22 critical recharging effect on aquifers; (C) fish and wildlife habitat conservation areas;
23 (D) geologically hazardous areas; and (E) frequently flooded areas.

24 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

25 | **19.150.220 Critical area protection easement.**

26 "Critical area protection easement" means an agreement conveyed through a notice to title, or
27 shown on the face of a plat or site plan, for the purpose of perpetual or long-term conservation.

28 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

29 | **19.150.225 Critical facilities.**

1 “Critical facilities” means those facilities necessary to protect the public health, safety and
2 welfare, including but not limited to schools, hospitals, police stations, fire departments and
3 other emergency response facilities, and nursing homes. Critical facilities also include sites of
4 hazardous material storage or production.

5 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

6 | **19.150.230 Danger trees.**

7 “Danger trees” means any tree of any height, dead or alive, that presents a hazard to the public,
8 public utility, or permanent structure because of rot; root, stem or limb damage; lean; or any
9 other observable condition created by natural process or manmade activity determined by a
10 certified arborist, or by the department through a danger tree site evaluation permit.

11 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

12 | **19.150.235 Debris.**

13 See “Refuse.”

14 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

15 | **19.150.240 Department.**

16 “Department” means the Kitsap County department of community development.

17 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

18 | **19.150.245 Detention facilities.**

19 “Detention facilities” means storm water facilities, including all the appurtenances associated
20 with their designed functions, maintenance and security that are designed to store runoff while
21 gradually releasing it at a predetermined controlled rate.

22 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

23 | **19.150.250 Development proposal site.**

24 “Development proposal site” means the legal boundaries of the parcel or parcels of land on
25 which an applicant has applied for authority from Kitsap County to carry out a development
26 proposal.

27 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

28 | **19.150.255 Director.**

1 “Director” means the director of the Kitsap County department of community development or a
2 duly authorized designee in the department.

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005)

4 | **19.150.256 Emergency.**

5 An “emergency” is an unanticipated and immediate threat to public health, safety, or the
6 environment that requires action within a time too short to allow immediate compliance with
7 this title.

8 | **19.150.260 Endangered species (state listed).**

9 “Endangered species” means a species native to the state of Washington that is seriously
10 threatened with extinction throughout all or a significant portion of its range within the state.
11 Endangered species are legally designated in WAC [220-610-010](#), as now or hereafter amended.

12 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.265)

13 | **19.150.265 Enhancement.**

14 “Enhancement” means the manipulation of the physical, chemical, or biological characteristics
15 of a wetland to heighten, intensify, or improve specific wetland function(s). Enhancement is
16 undertaken for specified purposes such as water quality improvement, flood water retention,
17 or wildlife habitat. Enhancement results in the gain of selected wetland function(s) but may also
18 lead to a decline in other wetland function(s). Enhancement does not result in a gain in wetland
19 area. Enhancement activities could include planting vegetation, controlling non-native or
20 invasive species, and modifying site elevations to alter hydroperiods in existing wetlands.

21 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.270)

22 | **19.150.270 Erosion.**

23 “Erosion” means the process whereby the land surface is worn away by the action of water,
24 wind, ice or other geologic agents, including processes such as gravitational creep or events
25 such as landslides caused by natural or manmade impacts.

26 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.275)

27 | **19.150.275 Erosion hazard areas.**

28 “Erosion hazard areas” are those areas containing soils which, according to the U.S. Department
29 of Agriculture Natural Resources Conservation Service Soil Survey Program, may experience
30 significant erosion. Erosion hazard areas also include coastal erosion-prone areas and channel
31 migration zones. This designation pertains to water erosion and not wind erosion. These areas

1 may not be highly erodible until or unless the soil is disturbed by activities such as clearing or
2 grading.

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.280)

4 | **19.150.276 Establishment**

5 “Establishment” means the manipulation of the physical, chemical, or biological characteristics
6 of a site to develop a wetland on an upland where a wetland did not previously exist at an
7 upland site. Establishment results in a gain in wetland area and functions. An example activity
8 could involve excavation of upland soils to elevations that will produce a wetland hydroperiod
9 and hydric soils by intercepting groundwater, and in turn supports the growth of hydrophytic
10 plant species.

11 | **19.150.280 Excavation.**

12 “Excavation” means the mechanical removal of earth material.

13 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.285)

14 | **19.150.285 Existing and ongoing agriculture.**

15 “Existing and ongoing agriculture” means agricultural uses and activities on lands defined in
16 RCW [84.34.020](#)(2) or defined as agricultural activities in this title when undertaken pursuant to
17 agricultural best management practices to minimize impacts to critical areas. Enrollment in a
18 federally recognized conservation program or the Kitsap County open space taxation program
19 as farm and agricultural conservation land (Chapter [18.12](#)) within the past five years will not
20 defeat an activity’s status as “existing and ongoing” agriculture.

21 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.290)

22 | **19.150.290 Exotic.**

23 “Exotic” means any species of plant or animal that is not indigenous (native) to an area.

24 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.295)

25 | **19.150.295 Extraordinary hardship.**

26 “Extraordinary hardship” means where the strict application of this title and/or other programs
27 adopted to implement this title by the regulatory authority would prevent all reasonable use of
28 the parcel.

29 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.300)

1 | **19.150.300 Farm pond.**

2 "Farm pond" means an open-water habitat of less than five acres and not contiguous with a
3 stream, river, lake or marine water created from a nonwetland site in connection with
4 agricultural activities.

5 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.305)

6 | **19.150.305 Fen.**

7 "Fen" means a wetland similar to a bog, dominated by organic soils, low nutrients, and low pH,
8 but receives some water from the surrounding landscape or groundwater, as described in
9 Washington State Wetland Rating System for Western Washington: 2014 Update (Washington
10 State Department of Ecology Publication No. 14-06-029, Olympia, WA October 2014).

11 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.315)

12 | **19.150.310 Filling or fill.**

13 "Filling" or "fill" means a deposit of earth or other natural or manmade material placed by
14 artificial means, including, but not limited to, soil materials, debris, or dredged sediments.

15 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.320)

16 | **19.150.315 Fish and wildlife habitat conservation areas.**

17 "Fish and wildlife habitat conservation areas" are those areas that serve a critical role in
18 sustaining needed habitats and species for the functional integrity of the ecosystem, and which,
19 if altered, may reduce the likelihood that the species will persist over the long term. These areas
20 may include, but are not limited to, rare or vulnerable ecological systems, communities, and
21 habitat or habitat elements including seasonal ranges, breeding habitat, winter range, and
22 movement corridors; and areas with high relative population density or species richness. See
23 below "Priority habitat" and "Priority species" for further detail. The county may also designate
24 locally important habitats and species. "Fish and wildlife habitat conservation areas" do not
25 include such artificial features or constructs as irrigation delivery systems, irrigation
26 infrastructure, irrigation canals, or drainage ditches that lie within the boundaries of and are
27 maintained by a port district or an irrigation district or company, or other entirely artificial
28 watercourses, except where they exist in a natural watercourse that has been altered by
29 humans.

30 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.325)

31 | **19.150.320 Fisheries biologist.**

1 “Fisheries biologist” means a person with experience and training in fisheries within the past
2 ten years who is able to submit substantially correct reports on fish population surveys, stream
3 surveys and other related data analyses of fisheries resources. “Substantially correct” is
4 interpreted to mean that technical or scientific errors, if any, will be minor and do not delay or
5 affect the site plan review process. Qualifications of a fisheries biologist include:

- 6 A. Certification by the American Fisheries Society; or
- 7 B. A Bachelor of Science degree in fisheries or the biological sciences from an accredited
8 institution and two years of professional fisheries experience; or
- 9 C. Five or more years professional experience as a practicing fisheries biologist with a
10 minimum three years professional field experience.

11 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.330)

12 | **19.150.325 Floodplain.**

13 “Floodplain” means the floodway and associated special flood hazard areas having the potential
14 to flood once every one hundred years, or having a one percent chance of being equaled or
15 exceeded in any given year. The regulatory flood hazard areas, floodplains and floodways are
16 depicted on the Federal Emergency Management Agency (FEMA) flood insurance rate maps
17 (FIRM) for Kitsap County.

18 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.335)

19 | **19.150.330 Floodway.**

20 “Floodway” means the channel of a river or other watercourse and the adjacent land areas that
21 must be reserved in order to discharge the base flood without cumulatively increasing the
22 water surface elevation more than one foot.

23 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.340)

24 | **19.150.335 Forest practices.**

25 “Forest practices” means, as defined in WAC [222-16-010](#), as now or hereafter amended, any
26 activity conducted on or directly pertaining to forest land that is related to growing, harvesting,
27 or processing timber, or removing forest biomass, including but not limited to:

- 28 A. Activities in and over typed water;
- 29 B. Road and trail construction;
- 30 C. Harvesting, final and intermediate;

- 1 D. Precommercial thinning;
- 2 E. Reforestation;
- 3 F. Fertilization;
- 4 G. Prevention and suppression of diseases and insects;
- 5 H. Salvage of trees; and
- 6 I. Brush control.

7 “Forest practices” shall not include: forest species seed orchard operations and intensive forest
8 nursery operations; or preparatory work such as tree marking, surveying and road flagging; or
9 removal or harvest of incidental vegetation from forest lands such as berries, ferns, greenery,
10 mistletoe, herbs, mushrooms, and other products which cannot normally be expected to result
11 in damage to forest soils, timber or public resources.

12 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.350)

13 | **19.150.340 Frequently flooded areas.**

14 “Frequently flooded areas” are lands in the floodplain subject to at least a one percent or
15 greater chance of flooding in any given year, or within areas subject to flooding due to high
16 groundwater. These areas include, but are not limited to, streams, rivers, lakes, coastal areas,
17 wetlands, and areas where high groundwater forms ponds on the ground surface. Generally,
18 floodplains are designated by FEMA on flood insurance rate and boundary maps.

19 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.355)

20 | **19.150.341 Functionally and effectively disconnected.**

21 “Functionally and effectively disconnected” means that the road or other significant
22 development blocks the protective measures provided by a buffer.

23 | **19.150.345 Functions and values.**

24 “Functions and values” are generally those natural processes and benefits performed or
25 provided by critical areas that are required to be protected by the GMA. These include, but are
26 not limited to, improving and maintaining water quality, providing fish and wildlife habitat,
27 supporting terrestrial and aquatic food chains, reducing flooding and erosive flows, water
28 attenuation, historical or archaeological importance, educational opportunities, and recreation.

29 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

1 | **19.150.350 Geologic assessment.**

2 A “geologic assessment” is an umbrella term used for the evaluation completed by a geologist
3 or geotechnical engineer to meet the requirements of Chapter [19.400](#). The geologic assessment
4 may be in the form of a letter, as described in Section [19.400.440](#), a geological report, or
5 geotechnical report (Section [19.150.370](#)).

6 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

7 | **19.150.355 Geologically hazardous areas.**

8 “Geologically hazardous areas” means areas that, because of their susceptibility to erosion,
9 sliding, earthquake, or other geological events, are not suited to siting commercial, residential
10 or industrial development consistent with public health or safety concerns.

11 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.360)

12 | **19.150.360 Geologist.**

13 “Geologist” means a person who is licensed in the state of Washington and meets all experience
14 and training requirements in accordance with Chapter [308-15](#) WAC, as now or hereafter
15 amended.

16 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.365)

17 | **19.150.365 Geotechnical engineer.**

18 “Geotechnical engineer” means a practicing geotechnical/civil engineer licensed as a
19 professional civil engineer with the state of Washington, with professional training and
20 experience in geotechnical engineering, including at least four years’ professional experience in
21 evaluating geologically hazardous areas.

22 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.370)

23 | **19.150.370 Geotechnical report and geological report.**

24 “Geotechnical report” and “geological report” mean a study of potential site development
25 impacts related to retention of natural vegetation, soil characteristics, geology, drainage,
26 groundwater discharge, and engineering recommendations related to slope and structural
27 stability. The geotechnical report shall be prepared by or in conjunction with a licensed
28 geotechnical engineer meeting the minimum qualifications as defined by this title. Geological
29 reports may contain the above information with the exception of engineering
30 recommendations, and may be prepared by a geologist (see Chapter [19.700](#), Special Reports,
31 for minimum qualifications).

1 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.375)

2 | **19.150.375 Grading (construction).**

3 “Grading” means any excavating, filling, grubbing, recontouring or mechanical removal of earth
4 materials on the surface layer or any combination thereof.

5 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.380)

6 | **19.150.380 Grubbing.**

7 “Grubbing” means the removal of vegetative matter from underground, such as sod, stumps,
8 roots, buried logs, or other debris, and includes the incidental removal of topsoil to a depth not
9 exceeding twelve inches.

10 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.390)

11 | **19.150.385 Groundwater.**

12 “Groundwater” means water that exists beneath the land surface or beneath the bed of any
13 stream, lake or reservoir, or other body of surface water, regardless of the geological formation
14 or structure in which such water stands or flows, percolates or otherwise moves.

15 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.395)

16 | **19.150.390 Habitat management plan.**

17 “Habitat management plan” means a report prepared by a professional wildlife biologist or
18 fisheries biologist that discusses and evaluates critical fish and wildlife habitat functions and
19 evaluates the measures necessary to maintain, enhance and improve habitat conservation on a
20 proposed development site.

21 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.400)

22 | **19.150.395 Habitats of local importance.**

23 “Habitats of local importance” are designated fish and wildlife habitat conservation areas that
24 are found to be locally important by the county.

25 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.405)

26 | **19.150.400 Hearing examiner.**

27 “Hearing examiner” means a person appointed to hear or review certain land use decisions
28 pursuant to RCW [36.70.970](#) and Chapter [2.10](#).

1 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.415)

2 | **19.150.411 Hydraulic Project.**

3 “Hydraulic Project” means construction or other work activities conducted in or near state
4 waters that will “use, divert, obstruct, or change the natural flow or bed of any of the salt or
5 fresh waters of the state.”

6 | **19.150.405 Hydric soils.**

7 “Hydric soils” means soils which are wet long enough to periodically produce anaerobic
8 conditions, thereby influencing the growth of hydrophytic plants.

9 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.420)

10 | **19.150.410 Hydrogeologist.**

11 “Hydrogeologist” means a person who is qualified to engage in the practice of hydrogeology,
12 has met the qualifications in hydrogeology established under Chapter [18.220](#) RCW, and has
13 been issued a license in hydrogeology by the Washington State Geologist Licensing Board.

14 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.425)

15 | **19.150.415 Infiltration rate.**

16 “Infiltration rate” means a general description of how quickly or slowly water travels through a
17 particular soil type.

18 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.430)

19 | **19.150.420 Landslide hazard areas.**

20 “Landslide hazard areas” means areas at risk of mass movement due to a combination of
21 geologic, topographic, and hydrologic factors.

22 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.435)

23 | **19.150.425 Liquefaction.**

24 “Liquefaction” means a process in which a water-saturated soil, upon shaking, suddenly loses
25 strength and behaves as a fluid.

26 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.440)

27 | **19.150.430 Low impact activities.**

1 “Low impact activities” means activities that do not require a development permit and/or do not
2 result in any alteration of hydrology or adversely impact the environment.

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.450)

4 | **19.150.435 Mitigation.**

5 “Mitigation” means avoiding, minimizing or compensating for adverse critical area impacts.
6 Mitigation includes the following specific categories:

7 A. Avoiding the impact altogether by not taking a certain action or parts of an action;

8 B. Minimizing impacts by limiting the degree or magnitude of the action and its
9 implementation, by using appropriate technology, or by taking affirmative steps to avoid or
10 reduce impacts;

11 C. Rectifying the impact by repairing, rehabilitating, or restoring the affected environment;

12 D. Reducing or eliminating the impact over time by preservation and maintenance operations
13 during the life of the action;

14 E. Compensating for the impact by replacing, enhancing, or providing substitute resources or
15 environments: and/or

16 F. Monitoring the impact and taking appropriate corrective measures.

17 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.455)

18 | **19.150.436 Monitoring.**

19 “Monitoring” means evaluating the impacts of development proposals over time on the
20 biological, hydrological, and geological elements of critical area ecosystem functions and
21 processes, and/or assessing the effectiveness of required mitigation measures through the
22 collection and analysis of data by various methods for the purpose of understanding and
23 documenting changes in natural ecosystems and features compared to baseline or pre-project
24 conditions and/or reference sites. An important objective of monitoring mitigation projects is to
25 verify the impact of the project on the environment predicted in submitted/approved mitigation
26 plans. Monitoring also includes gathering baseline data.

27 | **19.150.440 Native vegetation.**

28 “Native vegetation” means vegetation indigenous to the Puget Sound coastal lowlands.

29 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.470)

1 | **19.150.445 Normal maintenance.**

2 “Normal maintenance” means those usual acts to prevent a decline, lapse or cessation from a
3 lawfully established condition. Normal maintenance includes removing debris from and cutting
4 or manual removal of vegetation in crossing and bridge areas. Normal maintenance does not
5 include:

6 A. Use of fertilizer or pesticide application in wetlands, fish and wildlife habitat conservation
7 areas, or their buffers;

8 B. Redigging ditches in wetlands or their buffers to expand the depth and width beyond the
9 original ditch dimensions;

10 C. Redigging existing drainage ditches in order to drain wetlands on lands not classified as
11 existing and ongoing agriculture under Section [19.100.125](#) (Exemptions).

12 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.480)

13 | **19.150.450 Ordinary high water mark.**

14 “Ordinary high water mark” means that mark that will be found by examining the bed and
15 banks and ascertaining where the presence and action of waters are so common and usual,
16 and so long continued in all ordinary years, as to mark upon the soil a character distinct from
17 that of the abutting upland, in respect to vegetation as that condition existing on June 1, 1971,
18 as it may naturally change thereafter, or as it may change thereafter in accordance with permits
19 issued by a local government or the department: provided, that in any area where the ordinary
20 high water mark cannot be found, the ordinary high water mark adjoining salt water shall be
21 the line of mean higher high tide and the ordinary high water mark adjoining fresh water shall
22 be the line of mean high water.

23 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.490)

24 | **19.150.455 Out-of-kind compensation.**

25 “Out-of-kind compensation” means to replace a critical area (e.g., wetland) with a substitute
26 critical area (e.g., wetland) whose characteristics do not closely approximate those destroyed or
27 degraded by an activity. It does not refer to replacement out-of-category such as replacement
28 of wetland loss with new stream segments.

29 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.495)

30 | **19.150.460 Permeability.**

31 “Permeability” means the capacity of an aquifer or confining bed to transmit water.

1 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.505)

2 | **19.150.465 Practicable alternative.**

3 “Practicable alternative” means an alternative that is available and capable of being carried out
4 after taking into consideration cost, existing technology, and logistics in light of overall project
5 purposes, and having less impacts to critical areas. A practicable alternative may include an
6 area not owned by the applicant for which an easement has been obtained in order to fulfill the
7 basic purpose of the proposed activity.

8 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.520)

9 | **19.150.466 Preservation.**

10 “Preservation” means the removal of a threat to, or preventing the decline of, wetlands by an
11 action in or near those wetlands. This term includes activities commonly associated with the
12 protection and maintenance of wetlands through the implementation of appropriate legal and
13 physical mechanisms such as recording conservation easements and providing structural
14 protection like fences and signs. Preservation does not result in a gain of aquatic resource area
15 or functions but may result in a gain in functions over the long term.

16 | **19.150.470 Priority habitat.**

17 “Priority habitat” means a habitat type with unique or significant value to many species and may
18 be described by a unique vegetation type or dominant plant species, by a successional stage, or
19 specific habitat features of key value to fish and wildlife. Priority habitats are established by the
20 Washington State Department of Fish and Wildlife within their priority habitats and species
21 database. An area identified and mapped as priority habitat has one or more of the following
22 attributes:

- 23 A. Comparatively high fish and wildlife density or species diversity;
- 24 B. Important fish and wildlife breeding habitat, seasonal ranges, or movement corridors;
- 25 C. Limited availability;
- 26 D. High vulnerability to habitat alteration; or
- 27 E. Unique or dependent species.

28 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.525)

29 | **19.150.475 Priority species.**

1 “Priority species” means species requiring protective measures and/or management actions to
2 ensure their persistence at genetically viable population levels. Priority species include state-
3 listed or state-proposed endangered, threatened or sensitive species and candidate and
4 monitored species. Priority species may also include vulnerable aggregations (heron rookeries,
5 seabird concentrations, shellfish beds, etc.), or species of recreational, commercial and/or tribal
6 importance, and are established by the Washington State Department of Fish and Wildlife
7 within their Priority habitats and species database.

8 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.530)

9 | **19.150.480 Public facilities.**

10 “Public facilities” means facilities which are owned, operated or maintained by a public agency.

11 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.535)

12 | **19.150.485 Public project of significant importance.**

13 “Public project of significant importance” means a project funded by a public agency,
14 department or jurisdiction that is found to be in the best interests of the citizens of Kitsap
15 County and is so declared by the Kitsap County board of commissioners in a resolution.

16 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.540)

17 | **19.150.490 Public right-of-way.**

18 “Public right-of-way” means any road, alley, street, avenue, arterial, bridge, highway, or other
19 publicly owned ground or place used or reserved for the free passage of vehicular and/or
20 pedestrian traffic or other services, including utilities.

21 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.545)

22 | **19.150.495 Public utility.**

23 “Public utility” means a business or service, either governmental or having appropriate approval
24 from the state, which is engaged in regularly supplying the public with some commodity or
25 service which is of public consequence and need, such as electricity, gas, sewer and/or
26 wastewater, water, transportation or communications.

27 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.550)

28 | **19.150.500 Ravine.**

29 “Ravine” means a V-shaped landform, generally having little to no floodplain and normally
30 containing steep slopes, which is deeper than ten vertical feet as measured from the centerline

1 of the ravine to the top of the slope. Ravines are typically created by the wearing action of
2 streams.

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.555)

4 | **19.150.505 Reasonable.**

5 “Reasonable” means not excessive or extreme; fair.

6 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.559)

7 | **19.150.510 Reasonable alternative.**

8 “Reasonable alternative” means an activity that could feasibly attain or approximate a
9 proposal’s objectives, but at a lower environmental cost or decreased level of environmental
10 degradation.

11 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.560)

12 | **19.150.515 Reasonable use.**

13 “Reasonable use” is a legal concept articulated by federal and state courts in regulatory taking
14 cases. Generally, reasonable use applies to a property that is deprived of all reasonable use
15 when the owner can realize no reasonable return on the property or make any productive use
16 of the property. Reasonable return does not mean a reduction in value of the land, or a lack of
17 a profit on the purchase and sale of the property, but rather, where there can be no beneficial
18 use of the property; and which is attributable to the implementation of the critical areas
19 ordinance.

20 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.565)

21 | **19.150.520 Reasonable use exception.**

22 “Reasonable use exception” means an exception to the standards of this title that allows for the
23 use of a property that cannot otherwise conform to the requirements set forth in this title,
24 including the variance criteria. (See Section [19.100.140](#) for reasonable use exception
25 procedures.)

26 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.570)

27 | **19.150.525 Reestablishment.**

28 “Reestablishment” means the manipulation of the physical, chemical or biological
29 characteristics of a site with the goal of returning natural or historical functions to a former
30 wetland. Activities could include removing fill material, plugging ditches, or breaking drain tiles.

1 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.572)

2 | **19.150.530 Refuse.**

3 “Refuse” means material placed in a critical area or its buffer without permission from any legal
4 authority. Refuse includes, but is not limited to, stumps, wood and other organic debris, as well
5 as tires, automobiles, construction and household refuse. This does not include large woody
6 debris used with an approved enhancement plan.

7 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.575)

8 | **19.150.535 Rehabilitation.**

9 “Rehabilitation” means the manipulation of the physical, chemical or biological characteristics of
10 a site with the goal of repairing natural or historical functions and processes of a degraded
11 wetland. Activities could involve breaching a dike to reconnect wetlands to a floodplain,
12 restoring tidal influence to a wetland, or breaking drain tiles and plugging drainage ditches.
13 Rehabilitation results in a gain in wetland function but does not result in a gain in wetland
14 acres.

15 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.582)

16 | **19.150.540 Restoration.**

17 “Restoration” means the manipulation of the physical, chemical, or biological characteristics of a
18 site with the goal of returning natural or historic functions to a former or degraded wetland. For
19 the purpose of tracking net gains in wetland acres, restoration is divided into re-establishment
20 and rehabilitation.

21 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.585)

22 | **19.150.545 Retention facilities.**

23 “Retention facilities” means drainage facilities designed to store runoff for gradual release by
24 evaporation, plant transpiration, or infiltration into the soil. Retention facilities shall include all
25 such drainage facilities designed so that none or only a portion of the runoff entering the
26 facility will be eventually discharged as surface water. Retention facilities shall include all
27 appurtenances associated with their designed function, maintenance and security.

28 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.590)

29 | **19.150.550 Riparian area.**

30 “Riparian area” means a vegetated ecosystem along a water body through which energy,
31 materials, and water pass. Riparian areas characteristically have a high water table and are

1 subject to periodic flooding and influence from the adjacent water body. These systems
2 encompass wetlands, uplands, or some combination of these two landforms. They will not in all
3 cases have all the characteristics necessary for them to be also classified as wetlands.

4 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.595)

5 | **19.150.555 Salmonid.**

6 “Salmonid” means a member of the fish family salmonidae. This family includes Chinook, coho,
7 chum, sockeye and pink salmon; rainbow, steelhead, cutthroat, brook, bull trout and brown
8 trout; and Dolly Varden char, kokanee, and whitefish.

9 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.600)

10 | **19.150.560 Seismic hazard areas.**

11 “Seismic hazard areas” are areas subject to severe risk of damage as a result of earthquake-
12 induced ground shaking, slope failure, settlement, soil liquefaction, debris flows, lahars, or
13 tsunamis.

14 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

15 | **19.150.565 Sensitive species (state listed).**

16 “Sensitive species” means a wildlife species, native to the state of Washington, that is vulnerable
17 or declining and is likely to become endangered or threatened in a significant portion of its
18 range within the state without cooperative management or the removal of threats. Sensitive
19 species are legally designated in WAC-220-200-100 as now or hereafter amended.

20 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.605)

21 | **19.150.570 Shorelines.**

22 “Shorelines,” as defined by Chapter [90.58](#) RCW, are regulated under Title [22](#), Shoreline Master
23 Program. Those portions of streams where the mean annual flow is twenty cubic feet per
24 second or less, lakes less than twenty acres in size, and wetlands associated with either, are
25 regulated under this title.

26 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.610)

27 | **19.150.571 Significant development.**

28 “Significant development” means existing public or private roads, railroads, and other legally
29 established private developments such as homes or commercial structures; driveways are not
30 significant development.

1 | **19.150.575 Significant tree.**

2 “Significant tree” means any healthy tree that is at least eight inches in diameter at breast
3 height (forty-eight inches). A tree growing with multiple stems shall be considered significant if
4 at least one of the stems, as measured at a point six inches from where the stems digress from
5 the main trunk, is at least four inches in diameter. Any tree that is planted to fulfill
6 requirements of this title shall be considered significant, regardless of size or species.

7 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

8 | **19.150.580 Single-family dwelling.**

9 “Single-family dwelling” (attached or detached) means a building or structure that is designed
10 for occupancy by not more than one family and including accessory structures and
11 improvements.

12 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.615)

13 | **19.150.585 Special flood hazard areas.**

14 “Special flood hazard area” means an area subject to a base or one-hundred-year flood; areas
15 of special flood hazard are shown on a flood hazard boundary map or flood insurance rate map
16 as Zone A, AO, A1-30, AE, A99, AH, VO, V1-30, VE, or V.

17 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.620)

18 | **19.150.590 Species of concern.**

19 “Species of concern” means those species that have been classified as endangered, threatened,
20 sensitive, candidate, or monitored by the Washington State Department of Fish and Wildlife.

21 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.625)

22 | **19.150.595 State Environmental Policy Act or SEPA.**

23 “State Environmental Policy Act” or “SEPA” means the state environmental law
24 (Chapter [43.21C](#) RCW) and rules (Chapter [197-11](#) WAC) as implemented by
25 Title [18](#) (Environment).

26 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.630)

27 | **19.150.600 Streams.**

28 “Streams” mean those areas in Kitsap County where the surface water flows are sufficient to
29 produce a defined channel or bed. A defined channel or bed is an area which demonstrates

1 clear evidence of the passage of water and includes but is not limited to bedrock channels,
2 gravel beds, sand and silt beds and defined-channel swales. The channel or bed need not
3 contain water year-round. This definition is not meant to include irrigation ditches, canals,
4 storm or surface water runoff devices or other artificial watercourses unless they are used by
5 fish or used to convey streams naturally occurring prior to construction.

6 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.635)

7 | **19.150.605 Swale.**

8 “Swale” means a shallow drainage conveyance with relatively gentle side slopes, generally with
9 flow depths less than one foot.

10 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.640)

11 | **19.150.610 Threatened species (state listed).**

12 “Threatened species” means a species, native to the state of Washington that is likely to become
13 endangered in the foreseeable future throughout a significant portion of its range within the
14 state without cooperative management or the removal of threats. Threatened species are
15 legally designated in WAC [220-200-100](#), as now or hereafter amended.

16 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.645)

17 | **19.150.615 Toe of slope.**

18 “Toe of slope” means a distinct topographic break in a slope. Where no distinct break exists, this
19 point shall be the lowermost limits of the landslide hazard area as defined and classified in
20 Chapter [19.400](#).

21 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.650)

22 | **19.150.620 Top of slope.**

23 “Top of slope” means a distinct topographic break in a slope. Where no distinct break in a slope
24 exists, this point shall be the uppermost limit of the geologically hazardous area as defined and
25 classified in Chapter [19.400](#).

26 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.655)

27 | **19.150.625 Use or activity.**

28 “Use or activity” means any development proposal that includes or directly affects a critical area
29 or its buffer, or occurs within the area of review, as described in Section [19.100.110](#)(G), and is
30 not otherwise exempt under Section [19.100.125](#).

1 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

2 | **19.150.630 Utilities.**

3 “Utilities” means facilities or structures that produce or carry services consumed by the public,
4 such as electrical power, [solar power](#), gas, sewage, water, communications, oil, or publicly
5 maintained storm water facilities.

6 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.665)

7 | **19.150.635 Utility corridor.**

8 “Utility corridor” means areas set aside for or containing above- or below-ground utilities. A
9 utility corridor is usually contained within and is a portion of any right-of-way or easement.

10 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.670)

11 | **19.150.640 Wellhead protection area.**

12 “Wellhead protection area” means the surface and subsurface area surrounding a well or
13 wellfield that supplies a public water system.

14 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.671)

15 | **19.150.645 Wetland delineation.**

16 “Wetland delineation” means the identification of wetlands and their boundaries pursuant to
17 this title, which shall be done in accordance with the approved federal wetlands delineation
18 manual and applicable regional supplements.

19 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.674)

20 | **19.150.650 Wetland determination.**

21 “Wetland determination” means an on-site determination as to whether a wetland exists on a
22 specific parcel, completed by either a wetland specialist or the department.

23 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.675)

24 | **19.150.655 Wetland edge.**

25 “Wetland edge” means the line delineating the outer edge of a wetland established in
26 Section [19.200.210](#).

27 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.680)

19.150.660 Wetlands.

“Wetlands” means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include, but are not limited to, swamps, marshes, estuaries, bogs, and ponds less than twenty acres, including their submerged aquatic beds and similar areas. Wetlands do not include those artificial wetlands intentionally created from nonwetland sites, including, but not limited to, irrigation and drainage ditches, grass-lined swales, canals, storm water facilities, wastewater treatment facilities, farm ponds, and landscape amenities, or those wetlands created after July 1, 1990, that were unintentionally created as a result of the construction of a road, street, or highway. However, wetlands may include those legally established artificial wetlands intentionally created from nonwetland areas to mitigate the conversion of wetlands.

(Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.685)

19.150.665 Wetlands, mosaic.

“Wetlands, mosaic” or “mosaic wetlands” means an area with a concentration of multiple small wetlands, in which each patch of wetland is less than one acre; on average, patches are less than one hundred feet from each other; and areas delineated as vegetated wetland are more than fifty percent of the total area of the entire mosaic, including uplands and open water.

(Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.695)

19.150.670 Wetlands of regional significance.

“Wetlands of regional significance” means those wetlands determined by the department, or otherwise determined, to have characteristics of exceptional resource value which should be afforded the highest levels of protection.

(Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.700)

19.150.675 Wetlands of statewide significance.

“Wetlands of statewide significance” means those wetlands recommended by the Washington State Department of Ecology (DOE) and determined by the department to have characteristics of exceptional resource value which should be afforded the highest levels of protection.

(Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.705)

19.150.680 Wetlands report.

“Wetlands report” means a wetland delineation report or wetland mitigation plan consistent with applicable provisions of Chapters [19.200](#) (Wetlands) and [19.700](#) (Special Reports).

1 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.710)

2 | **19.150.685 Wetlands specialist.**

3 “Wetlands specialist” means a person with experience and training in wetland issues who is
4 able to submit substantially correct reports on wetland delineations, classifications, functional
5 assessments and mitigation plans. Substantially correct is interpreted to mean that errors, if
6 any, will be minor and do not delay or affect the site plan review process. Qualifications of a
7 wetlands specialist include:

8 A. Certification as a professional wetland scientist (PWS) or wetland professional in training
9 (WPIT) through the Society of Wetland Scientists;

10 B. A Bachelor of Science degree in the biological sciences from an accredited institution and
11 two years of professional field experience; or

12 C. Five or more years professional experience as a practicing wetlands biologist with a
13 minimum three years professional experience delineating wetlands.

14 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.715)

15 | **19.150.690 Wildlife biologist.**

16 “Wildlife biologist” means a person with experience and training within the last ten years in the
17 principles of wildlife management and with practical knowledge in the habits, distribution and
18 environmental management of wildlife. Qualifications include:

19 A. Certification as professional wildlife biologist through the Wildlife Society; or

20 B. Bachelor of Science or Bachelor of Arts degree in wildlife management, wildlife biology,
21 ecology, zoology, or a related field from an accredited institution and two years of professional
22 field experience; or

23 C. Five or more years of experience as a practicing wildlife biologist with a minimum of three
24 years of practical field experience.

25 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 17 (part), 2005. Formerly 19.150.720)

26

Chapter 19.200

WETLANDS

Sections:

[19.200.205 Purpose and objectives.](#)

[19.200.210 Wetland identification and functional rating.](#)

[19.200.215 Wetland review procedures.](#)

[19.200.220 Wetland buffer requirements.](#)

[19.200.225 Additional development standards for certain uses.](#)

[19.200.230 Wetland mitigation requirements.](#)

[19.200.235 Incentives for wetland mitigation.](#)

19.200.205 Purpose and objectives.

This chapter applies to all uses within or adjacent to areas designated as wetlands, as defined in Section [19.150.660](#), except those identified as exempt in Section [19.100.125](#). The intent of this chapter is to:

- A. Achieve no net loss and increase the quality, function and values of wetland acreage within Kitsap County by maintaining and enhancing, when required, the biological and physical functions and values of wetlands with respect to water quality maintenance, stormwater and floodwater storage and conveyance, fish and wildlife habitat, primary productivity, recreation, and education;
- B. Protect the public's health, safety and welfare, while preventing public expenditures that could arise from improper wetland uses and activities;
- C. Plan wetland uses and activities in a manner that allows property owners to benefit from wetland property ownership wherever allowable under the conditions of this title;
- D. Prevent turbidity and pollution of wetlands and fish or shellfish bearing waters; and
- E. Maintain the wildlife habitat.

(Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 18, 2005: Ord. 217 (1998) § 3 (part), 1998)

19.200.210 Wetland identification and functional rating.

A. General.

- 1. All wetland delineations shall be done in accordance with the approved federal wetland delineation manual and applicable regional supplement. All areas within the county meeting the wetland designation criteria are hereby designated critical areas and are subject to the provisions of this title.

1 2. Identification of hydric soils per National Resources Conservation Service (NRCS)
2 soils survey mapping are also considered potential wetlands and subject to review
3 and request for wetland determination and delineation.

4 ~~2.3. All wetlands shall be categorized Kitsap County uses using the most recent~~
5 ~~Washington Department of Ecology Washington State Wetland Rating System for~~
6 ~~Western Washington, revised 2014 or as hereafter amended, to categorize wetlands~~
7 ~~for the purposes of establishing wetland buffer widths, wetland uses and~~
8 ~~replacement ratios for wetlands. Wetlands shall be generally categorized as provided~~
9 ~~in this section, designated as follows. (See Chapter 19.800, Appendix A, for more~~
10 ~~detailed description.)~~

11 B. Wetlands.

12 1. Category I Wetlands. Category I wetlands include, but are not limited to, wetlands
13 that represent rare or unique wetland types, those that are more sensitive to
14 disturbance than most wetlands, those that are relatively undisturbed and contain
15 ecological attributes that are impossible to replace within a human lifetime, or those
16 that provide a high level of function. ~~Category I wetlands score twenty-three points~~
17 ~~or more out of twenty-seven on the wetlands ratings system.~~

18 2. Category II Wetlands. Category II wetlands are those wetlands that are more
19 difficult to replace and provide high levels of some functions. ~~Category II wetlands~~
20 ~~score between twenty and twenty-two points out of twenty-seven on the wetlands~~
21 ~~ratings system.~~

22 3. Category III Wetlands. Category III wetlands are those wetlands with a moderate
23 level of function and can often be adequately replaced with mitigation. ~~Category III~~
24 ~~wetlands score between sixteen and nineteen points on the wetlands ratings system.~~

25 4. Category IV Wetlands. Category IV wetlands have the lowest level of function and
26 are often heavily disturbed. ~~Category IV wetlands score less than sixteen points out~~
27 ~~of twenty-seven on the wetlands ratings system.~~

28 C. Exemptions for Small Wetlands. Category III wetlands that are less than one thousand
29 square feet and Category IV wetlands that are less than four thousand square feet are exempt
30 from the buffer provisions in this chapter when the following are met:

- 31 1. They are isolated wetlands and not part of a wetland mosaic;
- 32 2. They are not associated with riparian areas or their buffers;
- 33 3. They are not associated with shorelines of the state or their associated buffers;

1 4. They do not contain a Class I fish and wildlife habitat conservation area,
2 identified by the Washington Department of Fish and Wildlife;

3 5. They do not contain federally listed species or their critical habitat; ~~and~~

4 6. They do not score 6 or more points for habitat function based on the
5 Washington State Wetland Rating System for Western Washington;

6 7.6. A wetland report is prepared that identifies the specific wetland function
7 affected or at risk, and provides mitigation to replace the affected or lost wetland
8 function, on a per function basis; ~~;~~ ~~and~~

9 8. The fifteen-foot building and impervious surface setback in 19.200.220.F also
10 applies to exempt wetlands.

11 (Ord. 598 (2021) § 5, 2021; Ord. 545 (2017) § 5 (Appx. (part)), 2017; Ord. 376 (2007) § 4, 2007; Ord. 351 (2005) § 19, 2005)

12 **19.200.215 Wetland review procedures.**

13 A. Application Requirements. Except as otherwise provided herein, all applications for
14 development within a wetland or its largest potential buffer width shall include the following
15 special reports at the time of application. This shall not prohibit the department from
16 requesting reports or other information.

17 1. Wetland delineation report (Section [19.700.710](#)).

18 2. Wetland mitigation report (Section [19.700.715](#)).

19 B. Delineation of Wetland Boundaries.

20 1. Wetland delineations shall use the most recent edition of the federal wetland
21 delineation manual and applicable regional supplement consistent with wetland
22 delineation resources listed by the Washington State Department of Ecology.

23 2.4. The applicant shall be responsible for hiring a qualified wetlands specialist to
24 determine the wetland boundaries by means of a wetland delineation. This specialist
25 shall stake or flag the wetland boundary. When required by the department, the
26 applicant shall hire a professional land surveyor licensed by the state of Washington
27 to survey the wetland boundary line. The wetland boundary and wetland buffer
28 established by this chapter shall be identified on all grading, landscaping, site, on-site
29 septic system designs, utility or other development plans submitted in support of the
30 project.

1 ~~3.2.~~ If resources allow, the department may perform a delineation of a wetland
2 boundary on parcels where no more than one single-family dwelling unit is allowed.

3 ~~4.3.~~ Where the applicant has provided a delineation of a wetland boundary, the
4 department may verify the wetland boundary at the cost of the applicant and may
5 require that a wetland specialist make adjustments to the boundary.

6 C. Wetland Review Process for Single-family Dwellings.

7 1. Expedited Approval. Applicants proposing a single-family dwelling may receive
8 expedited approval by the department if they choose to adopt the largest buffer
9 width from the appropriate wetland category. Expedited approval removes the
10 requirements of the wetland certification process for single-family dwellings
11 (subsection (C)(2) of this section); provided, that the wetland delineation and/or
12 wetland rating is not disputed. Administrative buffer reductions or variances will not
13 apply. Expedited approval is not the same as expedited review, which is sometimes
14 available for additional fees.

15 2. Wetland Certification Process for Single-Family Dwellings (No Encroachment into
16 a Wetland or Its Standard Buffer).

17 a. Prior to issuance of a building permit, site development permit, or on-site
18 sewage system permit, the applicant may submit a single-family wetland
19 certification form completed by a wetland specialist that certifies either:

20 i. No wetlands are present within ~~three hundred two hundred fifty~~ feet of
21 the project area; or

22 ii. Wetlands are present within ~~three hundred two hundred fifty~~ feet of
23 the project area, but all regulated activities associated with the dwelling
24 (e.g., landscaped areas, septic facilities, outbuildings, etc.) will occur outside
25 of the standard buffer of the identified wetland.

26 b. If wetland buffers extend onto the site, the wetland specialist shall place
27 permanent, clearly visible, wetland buffer signs at the edge of the buffer. A
28 wetland buffer sign affidavit, signed by the wetland specialist, shall be
29 submitted to the department as verification that the wetland buffer signs have
30 been placed on the subject site.

31 c. The wetland certification shall include a site plan provided by the wetland
32 specialist that includes wetland location, buffer, and structure setback. The
33 certification shall also include current wetland rating forms.

1 ~~d.e.~~ A survey will not be required with a single-family wetland certification
2 form.

3 ~~e.d.~~ The single-family certification form may be used only to authorize single-
4 family dwellings and associated home-site features such as driveways, gardens,
5 fences, wells, lawns, and on-site septic systems. It may not be used for new
6 agricultural activities, expansion of existing agricultural activities, forest practice
7 activities, commercial projects, land divisions, buffer width modifications, or
8 violations.

9 ~~f.e.~~ The single-family certification process will be monitored by the
10 department for accuracy, and enforcement actions will be initiated should
11 encroachment into a wetland or buffer occur.

12 ~~g.f.~~ The applicant/property owner assumes responsibility for any and all errors
13 of the single-family certification form, as well as responsibility for all associated
14 mitigation required by the department.

15 ~~h.g.~~ Single-family certification forms shall be filed with the Kitsap County
16 auditor's office.

17 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 20, 2005)

18 **19.200.220 Wetland buffer requirements.**

19 A. Determining Standard Buffer Widths. The following buffer widths are based on three
20 factors: the wetland category, the intensity of the impacts, and the functions or special
21 characteristics of the wetland that need to be protected as established through the rating
22 system. These factors must be determined by a qualified wetland professional using the most
23 recent Washington State Wetland Rating System for Western Washington, revised 2014 or as
24 hereafter amended: 2014 Update (Ecology Publication No. 14-06-029, or as revised and
25 approved by the Washington State Department of Ecology). If a wetland meets more than one
26 of the characteristics listed in Tables 19.200.220(B) through (E), the greater of the buffers
27 recommended to protect the wetland is applied. Buffers shall be measured horizontally from a
28 perpendicular line established at the wetland edge based on the buffer width identified using
29 the tables below.

30

Table 19.200.220(A)
Land Use Impact “Intensity” Based on Development Types

Rating of Impact From Proposed Changes in Land Use	Examples of Land Uses That Cause the Impact Based on Common Zoning Categories
High	Commercial, urban, industrial, institutional, retail sales, residential subdivisions with more than 1 unit/acre, new agriculture (high-intensity processing such as dairies, nurseries and greenhouses, raising and harvesting crops requiring annual tilling, raising and maintaining animals), new transportation corridors, high-intensity recreation (golf courses, ball fields), hobby farms
Moderate	Single-family residential lots, residential subdivisions with 1 unit/acre or less, moderate-intensity open space (parks), new agriculture (moderate-intensity such as orchards and hay fields), transportation enhancement projects
Low	Forestry, open space (low-intensity such as passive recreation and natural resources preservation, minor transportation improvements)

1

Table 19.200.220(B)
Width of Buffers for Category IV Wetlands

Wetland Characteristics	Buffer Width by Impact of Proposed Land Use	Other Measures Recommended for Protection
Score for all 3 basic functions is less than 16 points	Low – 25 feet Moderate – 40 feet High – 50 feet	None

2

Table 19.200.220(C)
Width of Buffers for Category III Wetlands

Wetland Characteristics	Buffer Width by Impact of Proposed Land Use	Other Measures Recommended for Protection
Moderate level of function for habitat (6 – 7 points)*	Low – 75 feet Moderate – 110 feet High – 150 feet	None
Score for habitat 3 – 5 points	Low – 40 feet Moderate – 60 feet High – 80 feet	None

3

*If wetland scores 8 – 9 habitat points, use Table 19.200.220(D) for Category II buffers.

1

Table 19.200.220(D)
Width of Buffers for Category II Wetlands

Wetland Characteristics	Buffer Width by Impact of Proposed Land Use (most protective applies if more than one criterion met)	Other Measures Recommended for Protection
High level of function for habitat (score 8 – 9 points)	Low – 150 feet Moderate – 225 feet High – 300 feet	Maintain connections to other habitat areas
Moderate level of function for habitat (6 – 7 points)	Low – 75 feet Moderate – 110 feet High – 150 feet	None
High level of function for water quality improvement (8 – 9 points) and low for habitat (less than 6 points)	Low – 50 feet Moderate – 75 feet High – 100 feet	No additional surface discharges of untreated runoff
Estuarine	Low – 75 feet Moderate – 110 feet High – 150 feet	None
Interdunal	Low – 75 feet Moderate – 110 feet High – 150 feet	None
Not meeting above characteristics	Low – 50 feet Moderate – 75 feet High – 100 feet	None

2

TABLE 19.200.220(E)
Width of Buffers for Category I Wetlands

Wetland Characteristics	Buffer Width by Impact of Proposed Land Use (most protective applies if more than one criterion met)	Other Measures Recommended for Protection
Wetlands of high conservation value	Low – 125 feet Moderate – 190 feet High – 250 feet	No additional surface discharges to wetland or its tributaries No septic systems within 300 feet of wetland Restore degraded parts of buffer
Bogs	Low – 125 feet Moderate – 190 feet High – 250 feet	No additional surface discharges to wetland or its tributaries Restore degraded parts of buffer
Forested	Buffer width to be based on score for habitat functions or water quality functions	If forested wetland scores high for habitat (8 – 9 points), need to maintain connections to other habitat areas Restore degraded parts of buffer
Estuarine	Low – 100 feet Moderate – 150 feet High – 200 feet	None
Wetlands in coastal lagoons	Low – 100 feet Moderate – 150 feet High – 200 feet	None
High level of function for habitat (8 – 9 points)	Low – 150 feet Moderate – 225 feet High – 300 feet	Maintain connections to other habitat areas Restore degraded parts of buffer
Interdunal wetland with high level of function for habitat (8 – 9 points)	Low – 150 feet Moderate – 225 feet High – 300 feet	Maintain connections to other habitat areas Restore degraded parts of buffer
Moderate level of function for habitat (6 – 7 points)	Low – 75 feet Moderate – 110 feet High – 150 feet	None
High level of function for water quality improvement (8 – 9 points) and low for habitat (less than 6 points)	Low – 50 feet Moderate – 75 feet High – 100 feet	None
Not meeting any of the above characteristics	Low – 50 feet Moderate – 75 feet High – 100 feet	None

~~B.—Modification of Buffer Widths. The following modifications to buffer widths may be considered provided the applicant first demonstrates that reductions or alterations to the required wetland buffer cannot be avoided, minimized or mitigated (in that order):~~

~~1.—Buffer Averaging. Standard buffer widths may be modified by the department for a development proposal first by averaging buffer widths, but only where the applicant can demonstrate that such averaging can clearly provide as great or greater functions and values as would be provided under the standard buffer. The following standards shall apply to buffer averaging:~~

~~a.—The decrease in buffer width is minimized by limiting the degree or magnitude of the regulated activity.~~

~~b.—For wetlands and/or required buffers associated with documented habitat for endangered, threatened, or sensitive fish or wildlife species, a habitat assessment report has been submitted that demonstrates that the buffer modification will not result in an adverse impact to the species of study.~~

~~c.—Width averaging will not adversely impact the wetland.~~

~~d.—The total buffer area after averaging is no less than the total buffer area prior to averaging.~~

~~e.—For Category III and IV wetlands with habitat scores less than five points for habitat function based on the Washington State Wetland Rating System for Western Washington: 2014 update, as amended, the minimum buffer width at any point will not be less than fifty percent of the widths established after the categorization is done and any buffer adjustments applied in accordance with this chapter.~~

~~f.—For all other wetlands, the minimum buffer width at any point will not be less than seventy-five percent of the widths established after the categorization is done and any buffer adjustments applied in accordance with this chapter.~~

~~g.—If significant trees are identified, such that their drip line extends beyond the reduced buffer edge, the following tree protection requirements must be followed:~~

~~i.—A tree protection area shall be designed to protect each tree or tree stand during site development and construction. Tree protection areas may vary widely in shape, but must extend a minimum of five feet beyond the existing tree canopy area along the outer edge of the dripline of the tree(s), unless otherwise approved by the department.~~

1 ~~ii.—Tree protection areas shall be added and clearly labeled on all~~
2 ~~applicable site development and construction drawings submitted to the~~
3 ~~department.~~

4 ~~iii.—Temporary construction fencing at least thirty inches tall shall be~~
5 ~~erected around the perimeter of the tree protection areas prior to the~~
6 ~~initiation of any clearing or grading. The fencing shall be posted with~~
7 ~~signage clearly identifying the tree protection area. The fencing shall~~
8 ~~remain in place through site development and construction.~~

9 ~~iv.—No clearing, grading, filling or other development activities shall occur~~
10 ~~within the tree protection area, except where approved in advance by the~~
11 ~~department and shown on the approved plans for the proposal.~~

12 ~~v.—No vehicles, construction materials, fuel, or other materials shall be~~
13 ~~placed in tree protection areas. Movement of any vehicles within tree~~
14 ~~protection areas shall be prohibited.~~

15 ~~vi.—No nails, rope, cable, signs, or fencing shall be attached to any tree~~
16 ~~proposed for retention in the tree protection area.~~

17 ~~vii.—The department may approve the use of alternate tree protection~~
18 ~~techniques if an equal or greater level of protection will be provided.~~

19 ~~2.—Administrative Buffer Reductions. Standard buffer widths may be modified by~~
20 ~~the department for a development proposal by reducing buffers, but only where~~
21 ~~buffer averaging is not feasible and the applicant can demonstrate that such is the~~
22 ~~minimum necessary to accommodate the permitted use and that the reduction can~~
23 ~~clearly provide as great or greater functions and values as would be provided under~~
24 ~~the standard buffer requirement. This may be accomplished through enhancement~~
25 ~~of a degraded buffer. The following standards shall apply to buffer reductions:~~

26 ~~a.—The department may administratively reduce the buffer pursuant to the~~
27 ~~variance criteria listed in Section 19.100.135. Applicants may propose to utilize~~
28 ~~provisions contained in Section 19.200.230.~~

29 ~~b.—For proposed single-family dwellings, the department may administratively~~
30 ~~reduce a buffer by up to twenty-five percent of the area required under the~~
31 ~~standard buffer requirement, but not less than thirty feet.~~

32 ~~c.—For all other proposed uses, the department may administratively reduce~~
33 ~~the buffer by up to twenty-five percent of the area required under the standard~~
34 ~~buffer requirement, but not less than forty feet.~~

~~d.—To minimize impacts and provide equivalent functions and values as required by this section, applicants may propose:~~

~~i.—Enhancement of existing degraded buffer area and replanting of the disturbed buffer area;~~

~~ii.—The use of alternative on-site wastewater systems in order to minimize site clearing;~~

~~iii.—Infiltration of stormwater where soils permit; and~~

~~iv.—Retention of existing native vegetation on other portions of the site in order to offset habitat loss from buffer reduction;~~

~~v.—To utilize provisions contained in Section 19.200.230.~~

B. Increased or Enhanced Wetland Buffer Width.

1. The buffer widths in Tables 19.200.220(B) through (E) assume that the buffer is vegetated with a native plant community appropriate for the ecoregion.

In addition to the buffer widths based on the criteria in Tables 19.200.220(B) through (E), the department may increase buffer widths or require enhanced buffer vegetation on a case-by-case basis when necessary and in consultation with the Washington Department of Fish and Wildlife and affected Tribes(s) as applicable:

- a. To protect wetland functions and values to meet the 'no net loss' objective of this chapter;
 - b. When the wetland or buffer area is located within a landslide or erosion hazard area; or
 - c. When the standard buffer has minimum vegetation cover or is vegetated with non-native or invasive species that do not perform needed functions.
2. If any of the scenarios in subsection 1 apply, the buffer width may be increased to the next highest buffer width for the identified wetland category in the buffer tables in 19.200.220(A), unless a wetland report demonstrates an alternative buffer width meets the 'no net loss' objective.

For example, a Category III wetland with a moderate level of function for habitat, adjacent to a single-family residential use (moderate land use) would have a standard buffer of 110-feet. If determined a greater width is necessary, the increased buffer width would be 150-feet. If the land use intensity is already rated as high, then the next largest buffer width for the higher wetland category will apply.

- 1 3. When required, buffer enhancement is preferred to increasing the buffer width.
2 Enhancement of the buffer through native planting or invasive species removal shall be
3 demonstrated infeasible or ineffective prior to buffer width increases.

4 C. Provisions for Decreasing Buffer.

- 5 1. Consistent with this section, the department may reduce the standard buffer width by
6 up to twenty-five percent (to a width of no less than 30-feet for a single-family residence
7 and 40-feet for all other uses) in a Type I decision under Chapter 21.04. Reductions
8 greater than twenty-five percent but less than or equal to fifty percent for single-family
9 dwellings will be a Type II decision and require notification (see chapter 19.800,
10 Appendix F). Buffer reductions for single-family residences greater than fifty percent,
11 and reductions greater than twenty-five percent for all other uses shall be pursuant to a
12 variance under Section 19.100.135. In all cases, mitigation sequencing shall be
13 demonstrated per Chapter 19.100.155.D. When applicable, the order of sequence for
14 buffer reductions shall be as follows:

- 15 a. Use of buffer averaging under KCC 19.200.220.C, maintaining one hundred
16 percent of the buffer area under the standard buffer requirement;
17 b. Type I administrative critical area buffer reduction;
18 c. Type II administrative critical area buffer reduction;
19 d. Type III quasi-judicial critical area variance.

- 20 2. When proposing buffer averaging, the following shall be met;

- 21 a. The applicant submits a Wetland Mitigation Plan that meets the
22 requirements as described in Chapter 19.700 (Special Reports), including
23 demonstration of mitigation sequencing as described in 19.100.155.D and
24 that such averaging can clearly provide as great or greater functions and
25 values as would be provided under the standard buffer, and that the
26 decrease in buffer width is minimized by limiting the degree or magnitude of
27 the regulated activity;
28 b. The conditions are sufficient to assure 'no net loss' of ecological functions of
29 the wetland;
30 c. The total buffer area after averaging is no less than the total buffer area prior
31 to averaging;
32 d. The minimum buffer width at any point will not be less than 75% of the
33 standard buffer width for a Category I and II wetland, 50-feet for a Category
34 III wetland, and 25-feet for a Category IV wetland, whichever is greater; and
35 e. For Category III and IV wetlands with habitat scores five points or less for
36 habitat function, the minimum buffer width at any point will not be less than
37 50% of the standard buffer width for the category of wetland.

- 38 3. When proposing a Type I or Type II administrative buffer reduction, the following shall
39 be met:
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- a. The applicant demonstrates that the criteria in Section 19.100.135.A are met, and buffer averaging under KCC 19.200.220.C is not feasible;
 - b. The applicant submits a wetland mitigation plan that meets the requirements as described in Chapter 19.700 (Special Reports), including a demonstration of mitigation sequencing as described in 19.100.155.D; and
 - c. The conditions are sufficient to assure no net loss of ecological functions of the affected wetland.
4. Protection of significant trees. In all cases of wetland buffer reduction or averaging, significant trees within the buffer shall be identified as part of the Wetland Mitigation Plan. Any such tree that has a drip line extending beyond the reduced buffer edge shall follow the tree protection requirements below:
- a. A tree protection area shall be designed to protect each tree or tree stand during site development and construction. Tree protection areas may vary widely in shape, but must extend a minimum of five feet beyond the existing tree canopy area along the outer edge of the dripline of the tree(s), unless otherwise approved by the department;
 - b. Tree protection areas shall be added and clearly labeled on all applicable site development and construction drawings submitted to the department;
 - c. Temporary construction fencing at least thirty inches tall shall be erected around the perimeter of the tree protection areas prior to the initiation of any clearing or grading. The fencing shall be posted with signage clearly identifying the tree protection area. The fencing shall remain in place through site development and construction;
 - d. No clearing, grading, filling or other development activities shall occur within the tree protection area, except where approved in advance by the department and shown on the approved plans for the proposal;
 - e. No vehicles, construction materials, fuel, or other materials shall be placed in tree protection areas. Movement of any vehicles within tree protection areas shall be prohibited;
 - f. No nails, rope, cable, signs, or fencing shall be attached to any tree proposed for retention in the tree protection area; and
 - g. The department may approve the use of alternate tree protection techniques if an equal or greater level of protection will be provided.
5. Functionally Disconnected Buffer Area. Buffer areas that are functionally disconnected from a wetland by significant development may be excluded from buffer requirements as provided herein. Significant development for purposes of this subsection means existing public or private roads, railroads, and other legally established private developments such as homes or commercial structures; driveways are not significant development. The Director shall determine if a buffer area is functionally disconnected and whether the disconnect affects all or a portion of the buffer. Where only a portion of the buffer area is affected, the buffer exclusion shall be limited in scope to that affected area.



1 To establish that a buffer is functionally disconnected, the applicant must provide a
2 Wetland Report, meeting the requirements of chapter 19.700 (Special Reports),
3 confirming the existence of a distinct break in connectivity of the buffer, that there are
4 no other hydraulic connections across the significant development (e.g., culvert), and
5 that the disconnect blocks the protective measures provided by the buffer. Where a
6 buffer area has been determined to be functionally disconnected, whether in whole or
7 in part, that area may be excluded from the buffer with the following conditions:

- 8 a. All other applicable provisions of this chapter shall be met, including
9 demonstration of no net loss of applicable functions; and
10 b. All Significant Trees within the wetland buffer shall be identified and
11 retained.

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13 6. e. Alternatives to reducing standard buffer width. The buffer widths recommended for
14 proposed land uses with high-intensity impacts to wetlands can be administratively
15 reduced to those recommended for moderate-intensity impacts under the following
16 conditions:

17 a.i. For wetlands that score moderate or high for habitat (six five points or
18 more for habitat functions), the width of the buffer can be reduced if both of the
19 following criteria are provided met:

20 i. (A)—A ~~corridor. The corridor must be~~ relatively undisturbed, ~~and~~
21 vegetated ~~corridor~~ at least one hundred feet wide, ~~is protected between~~
22 ~~the wetland and any other priority habitats as defined by the Washington~~
23 ~~Department of Fish and Wildlife. The corridor must be protected for the~~
24 ~~entire distance between the wetland and the priority habitat by some type~~
25 ~~of legal protection such as a conservation easement. It must be legally~~
26 ~~protected, such as through a conservation easement, and connect the~~
27 ~~wetland to any of the following:~~

28 (A) A legally protected, relatively undisturbed and vegetated area
29 (such as priority habitats as defined by the Washington
30 Department of Fish and Wildlife, compensatory mitigation sites,
31 wildlife areas/refuges, parks with management plans that identify
32 with identified areas designated as natural, natural forest, or
33 natural area preserve);

34 (B) An area that is the site of a Watershed Project identified within,
35 and fully consistent with, a Watershed Plan as defined by RCW
36 89.08.460;

37 (C) An area where development is prohibited according to the
38 provisions of the shoreline master program; or

(D) An area with equivalent habitat quality that has conservation status in perpetuity, in consultation with Washington Department of Fish and Wildlife.

ii. (B) Minimization Measures. Measures to minimize the impacts of different land uses on wetlands, ~~such as the examples~~ summarized in Table 19.200.220(F). Though not every measure is required, all applicable and practicable measures shall be implemented.

b. ii. For wetlands that score less than six five points for habitat, the buffer width can be reduced to that required for moderate land use impacts by applying measures to minimize the impacts of the proposed land uses, ~~such as the examples~~ summarized in Table 19.200.220(F). Though not every measure is required, all applicable and practicable measures shall be implemented.

**Table 19.200.220(F)
Examples of Measures to Minimize Impacts to Wetlands**

Examples of Disturbance	Activities and Uses That Cause Disturbances	Examples of Measures to Minimize Impacts
Lights	<ul style="list-style-type: none"> • Parking lots • Warehouses • Manufacturing • Residential 	<ul style="list-style-type: none"> • Direct lights away from wetland
Noise	<ul style="list-style-type: none"> • Manufacturing • Residential 	<ul style="list-style-type: none"> • Locate activity that generates noise away from wetland
Stormwater runoff	<ul style="list-style-type: none"> • Parking lots • Roads • Manufacturing • Residential areas • Application of agricultural pesticides • Landscaping • Commercial 	<ul style="list-style-type: none"> • Route all new, untreated runoff away from wetland while ensuring wetland is not dewatered • Establish covenants limiting use of pesticides within 150 feet of wetland • Apply integrated pest management • Retrofit stormwater detention and treatment for roads and existing adjacent development • Prevent channelized flow from lawns that directly enters the buffer
Change in water regime	<ul style="list-style-type: none"> • Impermeable surfaces • Lawns • Tilling 	<ul style="list-style-type: none"> • Infiltrate or treat, detain, and disperse into buffer new runoff from impervious surfaces and new lawns
Pets and human disturbance	<ul style="list-style-type: none"> • Residential areas 	<ul style="list-style-type: none"> • Use privacy fencing; plant dense vegetation to delineate buffer edge and to discourage disturbance using vegetation appropriate for the ecoregion; place wetland and its buffer in a separate tract

Table 19.200.220(F)
Examples of Measures to Minimize Impacts to Wetlands

Examples of Disturbance	Activities and Uses That Cause Disturbances	Examples of Measures to Minimize Impacts
Dust	• Tilled fields	• Use best management practices to control dust

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Table 19.200.220(F)
Examples of Measures to Minimize Impacts to Wetlands

Examples of disturbance	Activities and uses that cause disturbances	Examples of measures to minimize impacts
<u>Lights</u>	<ul style="list-style-type: none"> • <u>Parking lots</u> • <u>Commercial/Industrial</u> • <u>Residential</u> • <u>Recreation (e.g., athletic fields)</u> • <u>Agricultural buildings</u> 	<ul style="list-style-type: none"> • <u>Direct lights away from wetland</u> • <u>Only use lighting where necessary for public safety and keep lights off when not needed</u> • <u>Use motion-activated lights</u> • <u>Use full cut-off filters to cover light bulbs and direct light only where needed</u> • <u>Limit use of blue-white colored lights in favor of red-amber hues</u> • <u>Use lower-intensity LED lighting</u> • <u>Dim light to the lowest acceptable intensity</u>
<u>Noise</u>	<ul style="list-style-type: none"> • <u>Commercial</u> • <u>Industrial</u> • <u>Recreation (e.g., athletic fields, bleachers, etc.)</u> • <u>Residential</u> • <u>Agriculture</u> 	<ul style="list-style-type: none"> • <u>Locate activity that generates noise away from wetland</u> • <u>Construct a fence to reduce noise impacts on adjacent wetland and buffer</u> • <u>Plant a strip of dense shrub vegetation adjacent to wetland buffer</u>
<u>Toxic runoff</u>	<ul style="list-style-type: none"> • <u>Parking lots</u> • <u>Roads</u> • <u>Commercial/industrial</u> • <u>Residential areas</u> • <u>Application of pesticides</u> • <u>Landscaping</u> • <u>Agriculture</u> 	<ul style="list-style-type: none"> • <u>Route all new, untreated runoff away from wetland while ensuring wetland is not dewatered</u> • <u>Establish covenants limiting use of pesticides within 150 ft. of wetland</u> • <u>Apply integrated pest management (These examples are not necessarily adequate for minimizing toxic runoff if threatened or endangered species are present at the site.)</u>

<u>Stormwater runoff</u>	<ul style="list-style-type: none"> • <u>Parking lots</u> • <u>Roads</u> • <u>Residential areas</u> • <u>Commercial/industrial</u> • <u>Recreation</u> • <u>Landscaping/lawns</u> • <u>Other impermeable surfaces, compacted soil, etc.</u> 	<ul style="list-style-type: none"> • <u>Retrofit stormwater detention and treatment for roads and existing adjacent development</u> • <u>Prevent channelized or sheet flow from lawns that directly enters the buffer</u> • <u>Infiltrate or treat, detain, and disperse new runoff from impervious surfaces and lawns</u>
<u>Pets and human disturbance</u>	<ul style="list-style-type: none"> • <u>Residential areas</u> • <u>Recreation</u> 	<ul style="list-style-type: none"> • <u>Use privacy fencing</u> • <u>Plant dense native vegetation to delineate buffer edge and to discourage disturbance</u> • <u>Place wetland and its buffer in a separate tract</u> • <u>Place signs around the wetland buffer every 50-200 ft., and for subdivisions place signs at the back of each residential lot</u> • <u>When platting new subdivisions, locate greenbelts, stormwater facilities, and other lower-intensity uses adjacent to wetland buffers</u>
<u>Dust</u>	<ul style="list-style-type: none"> • <u>Tilled fields</u> • <u>Roads</u> 	<ul style="list-style-type: none"> • <u>Use best management practices to control dust</u>

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2 7.3. Variance. In cases where proposed development cannot meet the buffer
 3 averaging or the administrative buffer reduction criteria described in this section, a
 4 Type III quasi-judicial variance shall be required as described in Section 19.100.135.
 5 ~~Applicants may propose to utilize provisions contained in Section 19.200.230.~~

6 ~~D.C. Fencing and Signs.~~ Protection of Buffers. The buffer shall be identified on a site plan and
 7 on site as required by the department and this chapter. Refuse shall not be placed in buffers.

8 1. Wetland buffers shall be temporarily fenced or otherwise suitably marked, as
 9 required by the department, between the area where the construction activity occurs
 10 and the buffer. Fences shall be made of a durable protective barrier and shall be
 11 highly visible. Silt fences and plastic construction fences may be used to prevent
 12 encroachment on wetlands or their buffers by construction. Temporary fencing shall
 13 be removed after the site work has been completed and the site is fully stabilized per
 14 county approval.

1 2. The department may require that permanent signs and/or fencing be placed on
2 the common boundary between a wetland buffer and the adjacent land of the
3 project site. Such signs will identify the wetland buffer. The department may approve
4 an alternate method of wetland and buffer identification, if it provides adequate
5 protection to the wetland and buffer.

6 ~~D. Protection of Buffers. The buffer shall be identified on a site plan and on site as required by~~
7 ~~the department and this chapter. Refuse shall not be placed in buffers.~~

8 E. Building or Impervious Surface Setback Lines. A building or impervious surface setback line
9 of fifteen feet is required from the edge of any wetland buffer, including exempt wetlands in
10 19.200.210.C. Minor structural or impervious surface intrusions into the areas of the setback
11 may be permitted if the department determines that such intrusions will not adversely impact
12 the wetland. The setback shall be identified on a site plan.

13 (Ord. 598 (2021) § 6, 2021; Ord. 545 (2017) § 5 (Appx. (part)), 2017; Ord. 351 (2005) § 21, 2005)

14 **19.200.225 Additional development standards for certain uses.**

15 In addition to meeting the development standards of this chapter, those uses identified below
16 shall also comply with the standards of this section and other applicable state, federal and local
17 laws.

18 A. Forest Practice, Class IV General, and Conversion Option Harvest Plans (COHPs). All timber
19 harvesting and associated development activity, such as construction of roads, shall comply
20 with the provisions of this title, including the maintenance of buffers around wetlands.

21 B. Agricultural Restrictions. In all development proposals that would introduce or expand
22 agricultural activities, a net loss of functions and values to wetlands shall be avoided. Wetlands
23 shall be avoided by at least one of the following methods:

24 1. Locate fencing no closer than the outer buffer edge; or

25 2. Implement a farm resource conservation and management plan agreed upon by
26 the conservation district and the applicant to protect and enhance the functions and
27 values of the wetland.

28 C. Road/Street Repair and Construction. Any private or public road or street repair,
29 maintenance, expansion or construction may be allowed within a critical area or its buffer only
30 when all of the following are met:

31 1. No other reasonable or practicable alternative exists and the road or street
32 serves multiple properties whenever possible;

1 2. For publicly owned or maintained roads or streets, other purposes, such as utility
2 crossings, pedestrian or bicycle easements, viewing points, etc., shall be allowed
3 whenever possible;

4 3. The road or street repair and construction are the minimum necessary to
5 provide safe roads and streets; and

6 4. Mitigation shall be performed in accordance with specific project mitigation plan
7 requirements. Applicants may propose to utilize provisions contained in
8 Section [19.200.230](#).

9 D. Land Divisions and Land Use Permits. All proposed divisions of land and land uses
10 (including but not limited to the following: short plats, large lot subdivisions, performance-
11 based developments, conditional use permits, site plan reviews, binding site plans) which
12 include regulated wetlands, shall comply with the following procedures and development
13 standards:

14 1. The area of a wetland and its buffers may be included in the calculation of
15 minimum lot area for proposed lots, except for the area with permanent open water.

16 2. Land division approvals shall be conditioned to require that wetlands and
17 wetland buffers be dedicated as open space tracts, or an easement or covenant
18 encumbering the wetland and wetland buffer. Such dedication, easement or
19 covenant shall be recorded together with the land division and represented on the
20 final plat, short plat or binding site plan, and title.

21 3. In order to implement the goals and policies of this title, to accommodate
22 innovation, creativity, and design flexibility, and to achieve a level of environmental
23 protection that would not be possible by typical lot-by-lot development, the use of
24 the clustered development or similar innovative site planning is strongly encouraged
25 for projects with regulated wetlands on the site.

26 4. After preliminary approval and prior to final land division approval, the
27 department may require the common boundary between a regulated wetland or
28 associated buffer and the adjacent land be identified using permanent signs and/or
29 fencing. In lieu of signs and/or fencing, alternative methods of wetland and buffer
30 identification may be approved when such methods are determined by the
31 department to provide adequate protection to the wetland and buffer.

32 E. Surface Water Management. Surface water discharges from stormwater facilities or
33 structures may be allowed in wetlands and their buffers when they are in accordance with
34 Title [12](#) (Stormwater Drainage) subject to the provisions of Section [19.100.145](#), Special use
35 review, and this subsection. The discharge shall neither significantly increase nor decrease the
36 rate of flow or hydroperiod, nor decrease the water quality of the wetland. Pretreatment of

1 surface water discharge through biofiltration or other best management practices (BMPs) shall
2 be required.

3 1. 2. Projects in the vicinity of bog wetlands shall be subject to additional stormwater
4 requirements to avoid altering hydrologic inputs to these acidic wetlands that are
5 highly sensitive to disturbance. The following regulations apply to bog wetlands, in
6 addition to all other applicable requirements of this chapter:

7 a. Stormwater facilities must be placed outside the bog wetland buffer
8 whenever feasible;

10 b. Stormwater facilities inside a bog wetland buffer are limited to the outer
11 25 percent of the buffer and must not create a single-point discharge;

13 c. Stormwater inputs must not alter wetland hydrology or pH;

15 d. Any mitigation monitoring of a bog system must include review of
16 stormwater facilities and monitoring for pH and retention/health of bog plant
17 species.

18 F. Trails and Trail-Related Facilities. Construction of public and private trails and trail-related
19 facilities, such as benches and viewing platforms, may be allowed in wetlands or wetland
20 buffers pursuant to the following standards:

21 1. Trails and related facilities shall, to the extent feasible, be placed on existing road
22 grades, utility corridors, or any other previously disturbed areas.

23 2. Trails and related facilities shall be planned to minimize removal of trees, soil
24 disturbance and existing hydrological characteristics, shrubs, snags and important
25 wildlife habitat.

26 3. Viewing platforms, interpretive centers, benches, picnic areas, and access to
27 them, shall be designed and located to minimize disturbance of wildlife habitat
28 and/or critical characteristics of the affected wetland. Platforms shall be limited to
29 one hundred square feet in size, unless demonstrated through a wetland mitigation
30 plan that a larger structure will not result in a net loss of wetland functions.

31 4. Trails and related facilities shall generally be located outside required buffers.
32 Where trails are permitted within buffers they shall be located in the outer twenty-
33 five percent of the buffer, except where wetland crossings or for direct access to
34 viewing areas have been approved by the department.

35 5. Trails shall generally be limited to pedestrian use unless other more intensive
36 uses, such as bike or horse trails, have been specifically allowed and mitigation has

1 been provided. Trail width shall not exceed five feet unless there is a demonstrated
2 need, subject to review and approval by the department. Trails shall be constructed
3 with pervious materials except where determined infeasible.

4 6. Regional or public trails and trail-related facilities as identified in the 2013 Kitsap
5 County Non-Motorized Facility Plan (and associated recognized community trails),
6 and as amended, and provided design considerations are made to minimize impacts
7 to critical areas and buffers, shall not be subject to the platform, trail width, or trail
8 material limitations above. Such trails and facilities shall be approved through special
9 use review (Section [19.100.145](#)), unless any underlying permit requires a public
10 hearing.

11 G. Utilities. Placement of utilities within wetlands or their buffers may be allowed pursuant to
12 the following standards and any other required state and federal approvals:

13 1. The utility maintenance or repair, as identified in Section [19.100.125\(E\)](#), shall be
14 allowed in wetlands and wetland buffers so long as best management practices are
15 used.

16 2. Construction of new utilities outside the road right-of-way or existing utility
17 corridors may be permitted in wetlands or wetland buffers only when: (a) no
18 reasonable alternative location is available, (b) the new utility corridor meets the
19 requirements for installation, replacement of vegetation and maintenance outlined
20 below, and (c) as required in the filing and approval of applicable permits and special
21 reports (Chapter [19.700](#)) required by this title.

22 3. Construction of sewer lines or on-site sewage systems may be permitted in
23 wetland buffers only when: (a) the applicant demonstrates that the location is
24 necessary to meet state or local health code minimum design standards (not
25 requiring a variance for either horizontal setback or vertical separation), and (b) there
26 are no other practicable or reasonable alternatives available and (c) construction
27 meets the requirements of this section. Joint use of the sewer utility corridor by other
28 utilities may be allowed.

29 4. New utility corridors shall not be allowed when the wetland or buffer has known
30 locations of federal- or state-listed endangered, threatened or sensitive species,
31 heron rookeries or nesting sites of raptors which are listed as state candidate or
32 state monitor, except in those circumstances where an approved habitat
33 management plan indicates that the utility corridor will not significantly impact the
34 wetland or wetland buffer.

35 5. New utility corridor construction and maintenance shall protect the wetland and
36 buffer environment by utilizing the following methods:

1 a. New utility corridors shall be aligned to avoid cutting trees greater than
2 twelve inches in diameter at breast height (four and one-half feet), measured on
3 the uphill side, unless no reasonable alternative location is available.

4 b. New utility corridors shall be revegetated with appropriate native vegetation
5 at not less than preconstruction densities or greater immediately upon
6 completion of construction, or as soon thereafter as possible if due to seasonal
7 growing constraints. The utility shall ensure that such vegetation survives.

8 c. Any additional utility corridor access for maintenance shall be provided at
9 specific points rather than by parallel roads, unless no reasonable alternative is
10 available. If parallel roads are necessary, they shall be the minimum width
11 necessary for access, but no greater than fifteen feet, and shall be contiguous to
12 the location of the utility corridor on the side away from the wetland. Mitigation
13 will be required for any additional access through restoration of vegetation in
14 disturbed areas.

15 d. Drilling for new utility corridors shall have entrance/exit portals located
16 completely outside of the wetland buffer boundary, and drilling shall not
17 interrupt the groundwater connection to the wetland or percolation of surface
18 water down through the soil column. Specific studies by a hydrologist are
19 necessary to determine whether the groundwater connection to the wetland or
20 percolation of surface water down through the soil column would be disturbed.

21 e. The department may require other additional mitigation measures.

22 6. Utility corridor maintenance shall include the following measures to protect the
23 wetland and buffer environment:

24 a. Painting of utility equipment, such as power towers, shall not be sprayed or
25 sandblasted, unless appropriate containment measures are used. Lead-based
26 paints shall not be used.

27 b. No pesticides, herbicides or fertilizers may be used in wetland areas or their
28 buffers except those approved by the U.S. Environmental Protection Agency
29 (EPA) and Washington Department of Ecology. Where approved, they must be
30 applied by a licensed applicator in accordance with the safe application
31 practices on the label.

32 H. Parks. Development of public park and recreation facilities may be permitted in wetlands
33 or their buffers subject to the provisions of Section [19.100.145](#), Special use review, and other
34 applicable chapters of the Kitsap County Code, and any state or federal approvals. For example,
35 enhancement of wetlands and development of trails may be allowed in wetlands and wetland
36 buffers subject to special use requirements and approval of a wetland mitigation plan.

1 (Ord. 598 (2021) § 7, 2021; Ord. 545 (2017) § 5 (Appx. (part)), 2017; Ord. 351 (2005) § 23, 2005; Ord. 217 (1998) § 3 (part), 1998)

2 **19.200.230 Wetland mitigation requirements.**

3 A. Mitigation Sequencing. All impacts to wetlands or buffers shall be mitigated according to
4 this title ~~as described in 19.100.155.D. in the following order:~~

5 ~~1.—Avoiding the impact altogether by not taking a certain action or parts of actions.~~

6 ~~2.—Minimizing impacts by limiting the degree or magnitude of the action and its~~
7 ~~implementation by using appropriate technology or by taking affirmative steps to~~
8 ~~reduce impacts.~~

9 ~~3.—Using one of the following mitigation types, listed in order of preference:~~

10 ~~a.—Rectifying the impact by reestablishing, rehabilitating, or restoring the~~
11 ~~affected environment;~~

12 ~~b.—Compensating for the impact by replacing or providing substitute resources~~
13 ~~or environments; or~~

14 ~~c.—Compensating for the impact by improving the environmental processes~~
15 ~~that support wetland systems and functions.~~

16 ~~4.—Monitoring the impact and compensation and taking appropriate corrective~~
17 ~~measures.~~

18 B. Mitigation Report. Where mitigation is required under the sequencing in subsection (A) of
19 this section, a mitigation report shall be provided in accordance with Section [19.700.715](#).

20 ~~Mitigation compliance is required per KCC 19.200.230.F. Acceptance of the mitigation report~~
21 ~~shall be signified by a notarized memorandum of agreement signed by the applicant and~~
22 ~~department director or designee. The agreement shall refer to all requirements for the~~
23 ~~mitigation project.~~

24 C. Native Species. Planting used in all mitigation actions shall be native species appropriate to
25 the ecoregion.

26 D. Wetland Buffer Mitigation Ratio. Unless otherwise specified during the agency review
27 process, mitigation for impacts to wetland buffers caused by new or re-development activity
28 shall be at a minimum 1:1 ratio.

29 ~~E. C.~~ Wetland Mitigation Replacement Ratios.

1 1. The following ratios appearing below in Table 19.200.230 (Wetland Mitigation
 2 Replacement Ratios), as well as consideration of the factors listed in this section,
 3 shall be used to determine the appropriate amounts of restored, rehabilitated,
 4 created or enhanced wetland that will be required to replace impacted wetlands. The
 5 first number specifies the amount of wetland area to be restored, rehabilitated,
 6 created or enhanced, and the second number specifies the amount of wetland area
 7 lost.

Table 19.200.230
Wetland Mitigation ~~Replacement~~ Ratios

Wetland Category	Reestablishment or Creation Only	Rehabilitation Only	Preservation^{1,2} 1:1 Reestablishment or Creation (R/C) and Enhancement (E)	Enhancement¹ Only
All Category IV other (based on functions)	1.5:1	3:1	6:1 1:1 R/C and 2:1 E	6:1
All Category III other (based on functions)	2:1	4:1	8:1 1:1 R/C and 4:1 E	8:1
<u>Category III and IV Interdunal wetlands</u>	<u>1.5:1</u>	<u>3:1 (limited circumstances)</u>	<u>6:1</u>	<u>Not considered an option</u>
Category II estuarine	<u>4:1 (re-establishment) Case-by-case</u>	<u>8:1 4:1 rehabilitation of an estuarine wetland</u>	<u>16:1 Case-by-case</u>	Case-by-case
<u>Category II Interdunal wetlands</u>	<u>2:1</u>	<u>4:1 (limited circumstances)</u>	<u>8:1</u>	<u>Not considered an option</u>
<u>Category II wetlands in coastal lagoons</u>	<u>3:1 (re-establishment only)</u>	<u>6:1</u>	<u>12:1</u>	<u>Not considered an option</u>
All other Category II other (based on functions)	3:1	8:1	12:1 1:1 R/C and 8:1 E	12:1
Category I forested	6:1	12:1	24:1 1:1 R/C and 20:1	24:1
Category I other (based on functions)	4:1	8:1	16:1 1:1 R/C and 12:1 E	16:1
<u>Category I Interdunal wetlands</u>	<u>4:1</u>	<u>8:1 (limited circumstances)</u>	<u>16:1</u>	<u>Not considered an option</u>

Table 19.200.230
Wetland Mitigation ~~Replacement~~ Ratios

Wetland Category	Reestablishment or Creation Only	Rehabilitation Only	Preservation^{1,2} 4:1 Reestablishment or Creation (R/C) and Enhancement (E)	Enhancement¹ Only
Category I Wetlands of high conservation value	Consult with WA DNR Not considered possible	Consult with WA DNR Case-by-case	24:1 Case-by-case	Consult with WA DNR Case-by-case
Category I coastal lagoon	4:1 Case-by-case	8:1 6:1 rehabilitation of a coastal lagoon	16:1 Case-by-case	Not considered an option Case-by-case
Bogs Category I bog	NA Case-by-case	NA 6:1 rehabilitation of a bog	24:1 Case-by-case	NA Case-by-case
Category I Estuarine	3:1 Case-by-case	6:1 rehabilitation of an estuarine wetland	12:1 Case-by-case	Case-by-case
<p>¹Ratios for rehabilitation, preservation, and enhancement may be reduced when combined with 1:1 replacement through re-establishment or creation. See Table 6B-2 in Wetland Mitigation in Washington State – Part 1: Agency Policies and Guidance –Version 2 (Ecology et al., 2021 or as revised).</p> <p>²All proposed preservation sites need to meet the preservation criteria listed in KCC 19.200.230.E.3.c.</p>				

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2 2. The above ratios are based on the assumption that the rehabilitation or
3 enhancement actions implemented represent the average degree of improvement
4 possible for the site. Accordingly, in the appropriate circumstances identified below,
5 the department may increase or decrease the ratios based on one or more of the
6 following:

7 a. Replacement ratios may be increased under the following circumstances:

8 i. Uncertainty exists as to the probable success of the proposed
9 restoration or creation;

10 ii. A significant period of time will elapse between impact and
11 establishment of wetland functions at the mitigation site;

12 iii. Proposed compensation will result in a lower category wetland or
13 reduced functions relative to the wetland being impacted; or

- 1 iv. The impact was an unauthorized impact.
- 2 b. Replacement ratios may be decreased under the following circumstances:
 - 3 i. Documentation by a qualified wetland specialist demonstrates certainty
 - 4 that the proposed compensation actions will be successful. For example,
 - 5 demonstrated prior success with similar compensation actions as those
 - 6 proposed, and/or extensive hydrologic data to support the proposed water
 - 7 regime;
 - 8 ii. Documentation by a qualified wetland specialist demonstrates that the
 - 9 proposed compensation actions will provide functions and values that are
 - 10 significantly greater than the wetland being impacted; or
 - 11 iii. The proposed mitigation actions are conducted in advance of the
 - 12 impact and are shown to be successful.

13 3. Methods of Compensatory Mitigation. Mitigation for wetland and buffer impacts
14 shall rely on the method listed below in order of preference. A lower-preference form of
15 mitigation shall be used only if the applicant's qualified wetland professional
16 demonstrates to the department's satisfaction that all higher ranked types of mitigation
17 are not viable, consistent with the criteria in this section.

18 a. Restoration: The manipulation of the physical, chemical, or biological
19 characteristics of a site with the goal of returning natural/historic functions and
20 environmental processes to a former or degraded wetland. Restoration is
21 divided into two categories:

22 i. Re-establishment: The manipulation of the physical, chemical, or
23 biological characteristics of a site with the goal of returning
24 natural/historic functions and environmental processes to a former
25 wetland. Re-establishment results in rebuilding a former wetland and
26 results in a gain in wetland area and functions. Example activities could
27 include removing fill, plugging ditches, or breaking drain tiles to restore a
28 wetland hydroperiod, which in turn will lead to restoring wetland biotic
29 communities and environmental processes.

30 ii. Rehabilitation: The manipulation of the physical, chemical, or biological
31 characteristics of a site with the goal of repairing natural/historic
32 functions and environmental processes to a degraded wetland.
33 Rehabilitation results in a gain in wetland function but does not result in
34 a gain in wetland area. The area already meets wetland criteria, but
35 hydrological processes have been altered. Rehabilitation involves
36 restoring historic hydrologic processes. Example activities could involve

1 breaching a dike to reconnect wetlands to a floodplain or return tidal
2 influence to a wetland.

3 b. Establishment (Creation): The manipulation of the physical, chemical, or
4 biological characteristics of a site to develop a wetland on an upland where a
5 wetland did not previously exist at an upland site. Establishment results in a gain
6 in wetland area and functions. An example activity could involve excavation of
7 upland soils to elevations that will produce a wetland hydroperiod and hydric
8 soils by intercepting groundwater, and in turn supports the growth of
9 hydrophytic plant species.

10 i. If a site is not available for wetland restoration to compensate for
11 expected wetland and/or buffer impacts, the department may authorize
12 establishment of a wetland and buffer upon demonstration by the
13 applicant's qualified wetland professional that:

14 (A) The hydrology and soil conditions at the proposed mitigation
15 site are conducive for sustaining the proposed wetland and that
16 establishment of a wetland at the site will not likely cause
17 hydrologic problems elsewhere;

18 (B) Adjacent land uses and site conditions do not jeopardize the
19 viability of the proposed wetland and buffer (e.g., due to the
20 presence of invasive plants or noxious weeds, stormwater runoff,
21 noise, light, or other impacts);

22 (C) The proposed wetland and buffer will eventually be self-
23 sustaining with little or no long-term maintenance; and

24 (D) The proposed wetland would not be established at the cost of
25 another high-functioning habitat (i.e., ecologically important
26 uplands).

27 c. Preservation. The removal of a threat to, or preventing the decline of, wetlands
28 by an action in or near those wetlands. This term includes activities commonly
29 associated with the protection and maintenance of wetlands through the
30 implementation of appropriate legal and physical mechanisms such as recording
31 conservation easements and providing structural protection like fences and
32 signs. Preservation does not result in a gain of aquatic resource area but may
33 result in a gain in functions over the long term. When restoration and/or
34 establishment are not viable, preservation of a wetland and associated buffer
35 can be used only if:

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i. The department determines that the proposed preservation is the best mitigation option;

ii. The proposed preservation site is under threat of undesirable ecological change due to permitted, planned, or likely actions that will not be adequately mitigated under existing regulations;

iii. The area proposed for preservation is of high quality or critical for the health and ecological sustainability of the watershed or sub-basin. Some of the following features may be indicative of high-quality sites:

(A) Category I or II wetland rating pursuant to KCC 19.200.210.

(B) Rare or irreplaceable wetland type [e.g., mature forested wetland, estuaries, etc.] or aquatic habitat that is rare or a limited resource in the area.

(C) The presence of habitat for threatened or endangered species (state, federal, or both).

(D) Provides biological and/or hydrological connectivity to other habitats.

(E) Priority sites identified in an adopted watershed plan.

iv. Permanent preservation of the wetland and buffer shall be provided through a legal mechanism such as a conservation easement or tract.

v. The department may approve another legal and administrative mechanism in lieu of a conservation easement if it is determined to be adequate to protect the site in perpetuity.

d. Enhancement. The manipulation of the physical, chemical, or biological characteristics of a wetland to heighten, intensify, or improve specific wetland function(s). Enhancement is undertaken for specified purposes such as water quality improvement, flood water retention, or wildlife habitat. Enhancement results in the gain of selected wetland function(s) but may also lead to a decline in other wetland function(s). Enhancement does not result in a gain in wetland area. Enhancement activities could include planting vegetation, controlling non-native or invasive species, and modifying site elevations to alter hydroperiods in existing wetlands. Applicants proposing to enhance wetlands and/or associated buffers shall demonstrate how the proposed enhancement will increase the wetland and/or buffer functions, how this increase in function will adequately

1 compensate for the impacts, and how existing wetland functions at the
2 mitigation site will be protected.

3 F. Mitigation Compliance

4 1. Unless otherwise specified, mitigation shall take place prior to final project
5 inspection to provide assurance that it will be completed and to mitigate for temporal
6 loss of wetland functions.

7 2. Mitigation requirements shall run with the parcel, and notice of such requirements
8 shall be recorded as a covenant. Mitigation as conditioned under project approval shall
9 be maintained in perpetuity, except where authorized through review of an alternative
10 mitigation plan.

11 3. In the event that a subsequent landowner applies for additional permits, the
12 electronic permit database will be queried for past mitigation and monitoring
13 requirements. If such mitigation is no longer in place or functioning, it shall be
14 reinstalled prior to permit issuance.

15 4. Mitigation enforcement shall occur under the authority of Chapter 19.100,
16 Introduction and Approval Procedures.

17 5. Monitoring shall be required for all wetland mitigation. Kitsap County shall require
18 monitoring reports on an annual basis for a minimum of five years and up to ten years,
19 or until the department determines that the mitigation project has achieved success.
20 The wetland mitigation plan shall provide specific criteria for monitoring the mitigation
21 project. Criteria shall be project-specific and use best available science to aid the
22 department in evaluating whether or not the project has achieved success (see Chapter
23 19.700 and Sections 19.700.710 and 19.700.715, Special Reports).

24 ~~G.D.~~ Alternative Mitigation Plans.

25 1. The department may approve alternative wetland mitigation plans identified in
26 this section that are based on best available science, such as priority restoration
27 plans that achieve restoration goals identified in Title 22, Appendix C, Shoreline
28 Restoration Plan. Alternative mitigation proposals must provide an equivalent or
29 better level of protection of wetland functions and values than would be provided by
30 the strict application of this chapter. Mitigation requirements may be determined
31 using the Credit-Debit Method described in Calculating Credits and Debits for
32 Compensatory Mitigation in Wetlands of Western Washington (Ecology Publication
33 #10-06-011), or as amended.

34 The department shall consider the following for approval of an alternative mitigation
35 proposal:

- 1 a. The proposal uses a watershed approach consistent with Selecting Wetland
2 Mitigation Sites Using a Watershed Approach (Western Washington) (Ecology
3 Publication No. 09-06-32, Olympia, WA, December 2009), or as amended.
- 4 b. Creation or enhancement of a larger system of natural areas and open
5 space is preferable to the preservation of many individual habitat areas.
- 6 c. Other on-site mitigation, as described above, is not feasible due to site
7 constraints, such as parcel size, stream type, wetland category, or geologic
8 hazards.
- 9 d. There is clear potential for success of the proposed mitigation at the
10 proposed mitigation site.
- 11 e. The plan contains clear and measurable standards for achieving compliance
12 with the specific provisions of the plan. A monitoring plan shall, at a minimum,
13 meet the provisions of the wetland mitigation plan (Chapter [19.700](#), Special
14 Reports).

15 2. Off-Site Compensatory Mitigation.

- 16 a. Considerations for determining whether off-site mitigation is preferable
17 include, but are not limited to:
 - 18 i. On-site conditions do not favor successful establishment of the
19 required vegetation type, or lack the proper soil conditions, or hydrology,
20 or may be severely impaired by the effects of the adjacent development;
 - 21 ii. On-site compensation would result in isolation from other natural
22 habitats;
 - 23 iii. Off-site location is crucial to one or more species that is threatened,
24 endangered, or otherwise of concern, and the on-site location is not;
 - 25 iv. Off-site location is crucial to larger ecosystem functions, such as
26 providing corridors between habitats, and the on-site location is not; and
 - 27 v. Off-site compensation has a greater likelihood of success or will
28 provide greater functional benefits.

- 29 b. When determining whether off-site mitigation is preferable, the value of the
30 site-specific wetland functions at the project site, such as flood control, nutrient
31 retention, sediment filtering, and rare or unique habitats or species, shall be
32 fully considered.

1 c. When conditions do not favor on-site compensation, off-site compensatory
2 mitigation should be located as close to the impact site as possible, but at least
3 within the same watershed, while still replacing lost functions.

4 d. Off-site compensatory mitigation may include the use of a wetland
5 mitigation bank or an in-lieu fee program.

6 i. Mitigation Banking. Kitsap County encourages the creation of a public
7 or private mitigation banking system when feasible.

8 (A) The approval authority determines that it would provide appropriate
9 compensation for the proposed impacts;

10 (B) The impact site is located in the service area of the bank;

11 (C) The proposed use of credits is consistent with the terms and
12 conditions of the certified mitigation bank instrument; and

13 (D) Replacement ratios for projects using bank credits is consistent with
14 replacement ratios specified in the certified mitigation bank instrument.

15 ii. In-Lieu-Fee Mitigation. Credits from an approved in-lieu-fee program
16 may be used when all of the following apply:

17 (A) The approval authority determines that it would provide
18 environmentally appropriated compensation for the proposed impacts.

19 (B) The proposed use of credits is consistent with the terms and
20 conditions of the approved in-lieu-fee program instrument.

21 (C) Projects using in-lieu-fee credits shall have debits associated with the
22 proposed impacts calculated by the applicant's qualified wetland
23 professional using the credit assessment method specified in the approved
24 instrument of the in-lieu-fee program.

25 (D) The impacts are located within the service area specified in the
26 approved in-lieu-fee instrument.

27 3. Advance Mitigation. Mitigation for projects with preidentified impacts to wetlands may be
28 constructed in advance of the impacts if the mitigation is implemented according to federal,
29 state and local laws and guidance on advance mitigation, and state water quality regulations
30 consistent with Interagency Regulatory Guide: Advance Permittee-Responsible Mitigation
31 (Ecology Publication No. 12-06-15).

1 ~~E.—Monitoring Requirements. Kitsap County shall require monitoring reports on an annual~~
2 ~~basis for a minimum of five years and up to ten years, or until the department determines that~~
3 ~~the mitigation project has achieved success. The wetland mitigation plan shall provide specific~~
4 ~~criteria for monitoring the mitigation project. Criteria shall be project-specific and use best~~
5 ~~available science to aid the department in evaluating whether or not the project has achieved~~
6 ~~success (see Chapter 19.700 and Sections 19.700.710 and 19.700.715, Special Reports).~~

7 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 25, 2005. Formerly 19.200.250)

8 **19.200.235 Incentives for wetland mitigation.**

9 Kitsap County recognizes that property owners wish to gain economic benefits from their land.
10 The county encourages such mechanisms as the open space tax program (Chapter [18.12](#)),
11 conservation easements and donations to land trusts, in order to provide taxation relief upon
12 compliance with the regulations in this title. Buffers dedicated as permanent open space tracts
13 may qualify for the open space taxation program and will be offered the opportunity to be
14 entered into this program. Kitsap County may offer to purchase these lands through the
15 conservation futures fund, as funding is available.

16 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 27, 2005 Ord. 217 (1998) § 3 (part), 1998. Formerly 19.200.260)

17

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Chapter 19.300

FISH AND WILDLIFE HABITAT CONSERVATION AREAS

Sections:

[19.300.305 Purpose.](#)

[19.300.310 Fish and wildlife habitat conservation area categories.](#)

[19.300.315 Development standards.](#)

19.300.305 Purpose.

This chapter applies to all uses within or adjacent to fish and wildlife habitat conservation areas, defined in Section [19.150.315](#) except those identified as exempt in Section [19.100.125](#). The intent of this chapter is to identify fish and wildlife habitat conservation areas and establish habitat protection procedures and mitigation measures designed to achieve no net loss of critical area functions and values and to maintain viable fish and wildlife populations and habitat over the long term. Further, it is also the intent of this chapter to:

- A. Preserve natural flood control, storm water storage, and drainage or stream flow patterns;
- B. Prevent turbidity and pollution, control siltation, protect nutrient reserves, and maintain water flows and quality for anadromous and resident fish, marine shellfish and forage fish;
- C. Encourage nonregulatory methods of habitat retention whenever practical, through mechanisms such as education and the open space tax program; and
- D. Avoid or minimize human and wildlife conflicts through planning and implementation of wildlife corridors where feasible.
- [E. Retain and restore riparian buffers to the maximum extent practicable to preserve functions and values over time.](#)

19.300.310 Fish and wildlife habitat conservation area categories.

- A. General. Fish and wildlife habitat conservation areas are typically identified by known locations of specific species (such as a nest or den) or by habitat areas or both and may occur on both public and private lands.
- B. Classification and Designation. The following categories shall be used in classifying and designating fish and wildlife habitat conservation areas:

1 1. Streams. All streams which meet the criteria for Type F, Np or Ns waters as set forth in
 2 WAC [222-16-030](#) of the Washington Department of Natural Resources (DNR) Water Typing
 3 System, as now or hereafter amended, and Table 19.300.310 (see also Chapter [19.800](#),
 4 Appendix B). Type S waters are regulated through the shoreline master program (Title [22](#)).
 5 The DNR stream maps should not be the only source for identifying regulated areas or
 6 establishing buffers. Other modeled or field-verified stream type maps should also be
 7 used, and stream conditions, identification of flow alterations, and location of fish
 8 passage barriers shall be identified through a site-specific field visit. Field verification of all
 9 intermittent or non-fish-bearing streams should occur during the wet-season months of
 10 October to March if feasible, or as determined by the department.

**Table 19.300.310
 DNR Water Typing System**

Water Type	
Current DNR Water Typing	Previous DNR Water Typing
Type S	Type 1
Type F	Type 2 and 3
Type Np	Type 4
Type Ns	Type 5

11
 12 2. Lakes Less Than Twenty Acres in Surface Area. Those lakes which meet the criteria for
 13 Type F, Np, and Ns waters as set forth in WAC [222-16-030](#), as now or hereafter amended.
 14 This includes lakes and ponds less than twenty acres in surface area and their submerged
 15 aquatic beds, and lakes and ponds planted with game fish by a governmental or tribal
 16 authority.

17 3. Type O (“Other”). There exist isolated streams in the County that have no surface
 18 connection to Type S, F, or N waters, are non-fish-bearing, but infiltrate entirely and are
 19 critical to downstream flows and overall watershed health. In addition to the DNR stream
 20 types above, a Type O stream classification shall be included as Fish and Wildlife Habitat
 21 Conservation Areas when verified on-site by a qualified habitat biologist.

22 43. Wildlife Habitat Conservation Areas.

23 a. Class I Wildlife Habitat Conservation Areas.

24 i. Habitats recognized by federal or state agencies for federal and/or state-
 25 listed endangered, threatened and sensitive species documented in maps or
 26 databases available to Kitsap County, including but not limited to the database

1 on priority habitats and species provided by the Washington Department of Fish
2 and Wildlife and the Washington Department of Natural Resources Natural
3 Heritage Program;

4 ii. Areas targeted for preservation by the federal, state and/or local
5 government which provide fish and wildlife habitat benefits, including but not
6 limited to important waterfowl areas identified by the U.S. Fish and Wildlife
7 Service and WDFW wildlife areas; or

8 iii. Areas that contain habitats and species of local importance have not been
9 identified at this time, and may be identified at a later date through a public
10 process when information necessitating such identification is made known.

11 b. Class II Wildlife Habitat Conservation Areas. Habitats for state-listed candidate
12 and monitored species documented in maps or databases available to Kitsap County
13 and which, if altered, may reduce the likelihood that the species will maintain a viable
14 population and reproduce over the long term.

15

16 | **19.300.315 Development standards.**

17 Activities within a designated fish and wildlife habitat conservation area and with its buffer are
18 subject to the regulatory provisions of this chapter and shall comply with the performance
19 standards outlined in this chapter as well as the mitigation sequencing requirements contained
20 within Section 19.100.155.D.

21 A. Buffers and Building Setbacks.

22 1. Buffers. Buffers shall remain undisturbed natural vegetation areas except where the
23 buffer can be enhanced to improve its functional attributes. Buffers shall be maintained
24 along the perimeter of fish and wildlife habitat conservation areas, as listed in Table
25 19.300.315. Refuse, fill, yard-waste or other debris shall not be placed in buffers.

Table 19.300.315
Fish and Wildlife Habitat Conservation Area Development Standards

Streams				

Water Type	Buffer Width	UGA Alternative Buffer Width*	Minimum Building Setback	Other Development Standards
S As defined and regulated in Title 22 (SMP)	See Title 22 (SMP)	NA	See Title 22 (SMP)	Where applicable, refer to the development standards in Chapters 19.200 (Wetlands) and 19.400 (Geologically Hazardous Areas). Where such features occur on site, the more restrictive buffer or building setback shall apply.
F	200 150 feet	150 feet	15 feet beyond buffer	
Np	100 50 feet	75 feet	15 feet beyond buffer	
Ns	100 50 feet	75 feet	15 feet beyond buffer	
O	100 feet	75 feet	15 feet beyond buffer	
Lakes less than 20 acres	100 feet		15 feet beyond buffer	<u>Where lakes have associated wetlands, a wetland delineation and rating may be required in accordance with KCC 19.200. The greater of buffers shall apply.</u>
Wildlife Habitat Conservation Areas				
Class I		Buffer widths and setbacks will be determined through a mandatory habitat management plan (HMP). In the case of bald eagles, a HMP will not be required, but additional state and federal permits and/or timing considerations for construction may be required to ensure compliance with all federal laws, including the federal Bald and Golden Eagle Protection Act (16 USC 668) to avoid impacting eagles and their habitat.		
Class II		Site-specific conditions will determine the need for the preparation of a HMP.		

1 * See 19.300.315(A)(3) for criteria.

2 2. Buffer Measurement. Distances shall be measured from the ordinary high water mark
3 (OHM) or from the top of the bank where the OHM cannot be identified. Buffer widths
4 shall be measured from the edge of the Channel Migration Zone, where applicable. The
5 buffer width shall be increased to include streamside wetlands, which provide overflow
6 storage for storm waters, feed water back to the stream during low flows or provide
7 shelter and food for fish. In braided channels, the ordinary high water mark or top of
8 bank shall include the entire stream feature.

1 Buffers shall be retained in their natural condition. It is acceptable, however, to enhance
 2 the buffer by planting indigenous vegetation, or by removal of invasive species, if prior
 3 approval is obtained by the department as approved by the department. Alteration of
 4 buffer areas and building setbacks may be allowed for development authorized by
 5 Section 19.100.140 (Reasonable use exception), 19.100.125 (Exemptions), 19.100.130
 6 (Standards for existing development) or 19.100.135 (Variances). The buffer width shall be
 7 increased to include streamside wetlands, which provide overflow storage for storm
 8 waters, feed water back to the stream during low flows or provide shelter and food for
 9 fish. In braided channels, the ordinary high water mark or top of bank shall include the
 10 entire stream feature.

11 3. UGA Alternative Buffer Widths. In limited circumstances as described in this subsection,
 12 the alternative buffer widths in Table 19.300.315(A) may be used as the starting, standard
 13 buffer width for the proposed development without first having to undergo a formal
 14 buffer reduction process as described in subsection 19.300.315(A)(4) below. In these
 15 cases, any necessary buffer decreases will use the alternative buffer width as the starting,
 16 standard buffer width. The use of UGA Alternative Buffer Widths will not be allowed
 17 without a Habitat Management Plan from a qualified habitat biologist proving that all of
 18 the conditions in this subsection are met.

19 a. For multi-family, restoration or redevelopment within Urban Growth Areas,
 20 the Alternative Buffer Widths may be utilized when:

- 21 i. The existing buffer has function-limited vegetation or
 22 predominantly invasive vegetation;
- 23 ii. The proposal provides a HMP which demonstrates greater
 24 riparian function will be provided than currently exists;
- 25 iii. The proposal will not significantly increase the threat of
 26 erosion, flooding, slope stability or other hazards on the site
 27 or on adjacent properties; and
- 28 iv. The current buffer conditions are not the result of a willful
 29 code violation.

30 b. For use of the Alternative Buffer Widths, restoration projects are those
 31 actions that manipulate the physical, chemical or biological characteristics of a
 32 site with the goal of returning natural or historic functions. Restoration requires
 33 more than vegetative buffer enhancement and can include, but is not limited to,
 34 daylighting of a piped stream, re-meandering of a channelized stream, or re-
 35 establishment of a habitat corridor through removal of existing barriers. The
 36 Director shall determine, in consultation with affected agencies and tribes as
 37 necessary, whether a restoration project will qualify for the Alternative Buffer
 38 Width.

39 c. For use of the Alternative Buffer widths, redevelopment projects are limited to
 40 changes in uses or replacement of structures that:

- 1 i. Result in no increases in impervious surface within the Alternative
- 2 Buffer width;
- 3 ii. Result in no new structures closer to the critical area than existing
- 4 structures; and
- 5 iii. Meet the Flood Hazard Area development standards in Title 15
- 6 KCC.

7 43. Provisions for Decreasing Buffer.

8 a. Consistent with this section, the department may reduce the standard buffer

9 width by up to twenty-five percent in a Type I decision under Chapter 21.04.

10 Reductions of greater than twenty-five percent but less than or equal to fifty

11 percent for single-family dwellings will be a Type II decision and require

12 notification (see Chapter 19.800, Appendix F). Buffer reductions for single-family

13 residences greater than fifty percent, and reductions greater than twenty-five

14 percent for all other uses shall be pursuant to a Type III variance under

15 Section 19.100.135, as appropriate. In all cases, mitigation sequencing shall be

16 demonstrated per Chapter 19.100.155.D. When applicable, the order of

17 sequence for buffer reductions shall be as follows:

18 i. Use of buffer averaging, maintaining one hundred percent of the

19 buffer area under the standard buffer requirement;

20 ii. Type I administrative critical area buffer reduction;

21 ii. Type II administrative critical area buffer reduction;

22 iii. Type III quasi-judicial critical area variance.

23 b. When proposing buffer averaging, the following shall be met:

24 i. The applicant submits a habitat management plan (HMP) that meets

25 the requirements as described in Chapter 19.700 (Special Reports),

26 including demonstration of mitigation sequencing as described in

27 19.100.155.D and that such averaging can clearly provide as great or

28 greater functions and values as would be provided under the standard

29 buffer, and that the decrease in buffer width is minimized by limiting the

30 degree or magnitude of the regulated activity;

31 ii. The HMP is reviewed and DCD, in consultation as necessary with the

32 Washington State Department of Fish and Wildlife, determines that the

33 averaging is the minimum necessary for the permitted use;

1 iii. The minimum buffer width at any point will not be less than 75% of
2 the standard buffer width;

3 iv. The conditions are sufficient to assure no net loss of ecological
4 functions of the fish and wildlife habitat conservation area; and

5 v. The area added to the buffer as part of averaging shall connect to
6 existing habitat corridors whenever feasible.

7 c. When proposing a Type I or II administrative buffer reduction the following
8 shall be met:

9 i. The applicant demonstrates that the criteria in Section 19.100.135 (A)
10 are met and buffer averaging under Section 19.300.315(A)(5)(b) is not
11 feasible;

12 ii. The applicant submits a habitat management plan (HMP) that meets
13 the requirements as described in Chapter 19.700 (Special Reports),
14 including demonstration of avoidance and minimization (mitigation
15 sequencing);

16 iii. The HMP is reviewed and DCD, in consultation as necessary with the
17 Washington State Department of Fish and Wildlife, determines that a
18 reduction is the minimum necessary for the permitted use; and

19 iv. The conditions are sufficient to assure no net loss of ecological
20 functions of the affected fish and wildlife habitat conservation area.

21 d. Protection of significant trees. In all cases of buffer reduction or averaging,
22 significant trees within the standard buffer shall be identified as part of the
23 Habitat Management Plan. Any such tree that has a drip line extending beyond
24 the reduced buffer edge shall follow the tree protection requirements below:

25 i. A tree protection area shall be designed to protect each tree or tree
26 stand during site development and construction. Tree protection areas
27 may vary widely in shape, but must extend a minimum of five feet
28 beyond the existing tree canopy area along the outer edge of the dripline
29 of the tree(s), unless otherwise approved by the department;

30 ii. Tree protection areas shall be added and clearly labeled on all
31 applicable site development and construction drawings submitted to the
32 department;

1 iii. Temporary construction fencing at least thirty inches tall shall be
2 erected around the perimeter of the tree protection areas prior to the
3 initiation of any clearing or grading. The fencing shall be posted with
4 signage clearly identifying the tree protection area. The fencing shall
5 remain in place through site development and construction;

6 iv. No clearing, grading, filling or other development activities shall occur
7 within the tree protection area, except where approved in advance by the
8 department and shown on the approved plans for the proposal;

9 v. No vehicles, construction materials, fuel, or other materials shall be
10 placed in tree protection areas. Movement of any vehicles within tree
11 protection areas shall be prohibited;

12 vi. No nails, rope, cable, signs, or fencing shall be attached to any tree
13 proposed for retention in the tree protection area; and

14 vii. The department may approve the use of alternate tree protection
15 techniques if an equal or greater level of protection will be provided.

16 e. Functionally Disconnected Buffer Area. Buffer areas that are functionally
17 disconnected from a fish and wildlife habitat conservation area by significant
18 development may be excluded from buffer requirements as provided herein.
19 Significant development for purposes of this subsection means existing public or
20 private roads, railroads, and other legally established private developments such
21 as homes or commercial structures; driveways are not significant development.
22 The Director shall determine if a buffer area is functionally disconnected and
23 whether the disconnect affects all or a portion of the buffer. Where only a
24 portion of the buffer area is affected, the buffer exclusion shall be limited in
25 scope to that affected area.

26 To establish that a buffer is functionally disconnected, the applicant must
27 provide a Habitat Management Plan, meeting the requirements of chapter
28 19.700 (Special Reports), confirming the existence of a distinct break in
29 connectivity of the buffer, that there are no other hydraulic connections across
30 the significant development (e.g., culvert), and that the disconnect blocks the
31 protective measures provided by the buffer. Where a buffer area has been
32 determined to be functionally disconnected, whether in whole or in part, that
33 area may be excluded from the buffer with the following conditions:

34 i. All other applicable provisions of this chapter shall be met, including
35 demonstration of no net loss of applicable functions; and

36 ii. All Significant Trees within the fish and wildlife habitat conservation
37 buffer shall be identified and retained.

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~~a.—The department may grant an administrative reduction to buffer widths when the following are met:~~

~~i.—The applicant demonstrates that buffer widths cannot be met, according to the variance criteria in Section 19.100.135;~~

~~ii.— The applicant submits a habitat management plan (HMP) that meets the requirements as described in Chapter 19.700 (Special Reports);~~

~~iii.—The HMP is reviewed and consultation with the Washington State Department of Fish and Wildlife determines that a reduction is the minimum necessary for the permitted use; and~~

~~iv.—The conditions are sufficient to assure no net loss of ecological functions of the affected fish and wildlife habitat conservation area.~~

~~b.—The department may reduce the buffer width by up to twenty-five percent in a Type I decision under Chapter 21.04. Reductions of greater than twenty-five percent but less than fifty percent for single-family dwellings will be a Type II decision and require notification (see Chapter 19.800, Appendix F). Buffer reductions for single-family residences greater than fifty percent, and reductions greater than twenty-five percent for all other uses shall be pursuant to a variance under Section 19.100.135. When applicable, the order of sequence for buffer reductions shall be as follows:~~

~~i.—Use of buffer averaging, maintaining one hundred percent of the buffer area under the standard buffer requirement;~~

~~ii.—Reduction of the overall buffer area by no more than twenty-five percent of the area required under the standard buffer requirement;~~

~~iii.—Enhancement of existing degraded buffer area and replanting of the disturbed buffer area;~~

~~iv.—Use of alternative on-site wastewater systems in order to minimize site clearing;~~

~~v.—Infiltration of storm water where soils permit; and~~

~~vi.—Retention of native vegetation on other portions of the site in order to offset habitat loss from buffer reduction.~~



1 54. Provision for Increasing Buffer. The department may increase the buffer width
2 whenever a development proposal has known locations of endangered or threatened
3 species for which a habitat management plan indicates a larger buffer is necessary to
4 protect habitat values for such species, or when the buffer is located within a landslide
5 or erosion hazard area, beyond the standard buffer width when greater protection is
6 necessary based on specific site conditions and project features, to preserve riparian
7 functions and values and protected species. A determination that a larger protection
8 area is needed shall be based on the following factors:

9 a. The development proposal has known locations of endangered or threatened
10 species for which a habitat management plan indicates a larger buffer is
11 necessary to protect habitat values for such species; or

12 b5. Buffers for Streams in Ravines. For streams in ravines with ravine sides ten
13 feet or greater in height, the buffer width shall be the minimum buffer required
14 for the stream type, or a buffer width that extends twenty-five feet beyond the
15 top of the slope, whichever is greater. Building setbacks for geologically
16 hazardous areas may still apply (Chapter 19.400), if determined necessary.

17 c. 6. Channel Migration Zones. In areas where channel migration zones can be
18 identified the buffer distance shall be measured from the edge of the channel
19 migration zone.). Building setbacks for geologically hazardous areas may also
20 apply (Chapter 19.400), if determined necessary.

21 6.7. Protection of Buffers. Buffer areas shall be protected as required by the
22 department. The buffer shall be identified on a site plan and on site as required by the
23 department and this chapter. The buffer shall be identified on a site plan and on site as
24 required by the department and this chapter. Refuse shall not be placed in buffers.

25 a. Fish and wildlife habitat conservation area buffers shall be temporarily
26 fenced or otherwise suitably marked, as required by the department, between
27 the area where the construction activity occurs and the buffer. Fences shall be
28 made of a durable protective barrier and shall be highly visible. Silt fences and
29 plastic construction fences may be used to prevent encroachment on fish and
30 wildlife habitat conservation areas or their buffers by construction. Temporary
31 fencing shall be removed after the site work has been completed and the site is
32 fully stabilized per county approval.

33 b. The department may require that permanent signs and/or fencing be placed
34 on the common boundary between a fish and wildlife habitat conservation area
35 buffer and the adjacent land of the project site. Such signs will identify the fish
36 and wildlife habitat conservation area buffer. The department may approve an
37 alternate method of fish and wildlife habitat conservation area and buffer
38 identification, if it provides adequate protection to the fish and wildlife habitat
39 conservation area and buffer.

1 7.8. Building or Impervious Surface Setback Lines. A building or impervious surface
2 setback line of fifteen feet, or as determined by a HMP, is required from the edge of any
3 fish and wildlife habitat conservation area buffer. Minor structural or impervious surface
4 intrusions into the areas of the setback may be permitted if the department determines
5 that such intrusions will not adversely impact the fish and wildlife habitat conservation
6 area. The setback shall be identified on a site plan.

7 8. Piped watercourses. It is recognized that within the urban environment, many historical
8 streams have been substantially modified to accommodate development. Development
9 along an underground piped watercourse may only require a 15-foot setback on either
10 side (unless otherwise required or otherwise recorded), of the centerline of the piped
11 watercourse when demonstrated that:

12 a. The segment or immediately adjacent stream segments are not feasible for
13 future restoration;

14 b. The piped stream is currently of adequate size to accommodate flow capacity
15 within the watershed; and

16 c. Riparian functions are still enhanced to the greatest extent possible (rain
17 gardens, native vegetation enhancement, etc.).

18 B. Class I Wildlife Habitat Conservation Areas Development Standards. All development
19 permits within known Class I wildlife habitat conservation areas will require the submittal and
20 approval of a habitat management plan (HMP) as specified in Chapter [19.700](#) (Special Reports).
21 In the case of bald eagles, a HMP will not be required, but additional state and federal permits
22 and/or timing considerations for construction may be required to ensure compliance with all
23 federal laws, including the Federal Bald and Golden Eagle Protection Act ([16 USC 668](#)) to avoid
24 impacting eagles and their habitat. In the case of listed fish species, a HMP shall be required
25 only if a buffer reduction is proposed under the provisions of Section [19.300.315\(A\)](#). The HMP
26 shall consider measures to retain and protect the wildlife habitat and shall consider effects of
27 land use intensity, buffers, setbacks, impervious surfaces, erosion control and retention of
28 natural vegetation.

29 C. Class II Wildlife Habitat Conservation Area Development Standards. All development
30 permits within known Class II wildlife conservation areas may require the submittal of a habitat
31 management plan (HMP), as determined during the SEPA/critical areas review on the project.
32 The HMP shall consider measures to retain and protect the wildlife habitat and shall consider
33 effects of land use intensity, buffers, setbacks, impervious surfaces, erosion control and
34 retention of natural vegetation.

35 D. Stream Crossings. Any private or public road expansion or construction proposed to cross
36 streams classified within this title, shall comply with the following minimum development
37 standards. All other state and local regulations regarding water crossing structures will apply,

1 and the use of the Water Crossing Design Guidelines (WDFW, 2013) or as amended, is
2 encouraged.

3 1. Crossings shall not occur in salmonid streams unless no other feasible crossing site
4 exists. For new development proposals, if existing crossings are determined to adversely
5 impact salmon spawning or passage areas, new or upgraded crossings shall be relocated
6 as determined by the Washington State Department of Fish and Wildlife (WDFW).

7 2. Bridges or bottomless culverts shall be required for all Type F streams that have
8 salmonid habitat. Other alternatives may be allowed upon submittal of a habitat
9 management plan that demonstrates that other alternatives would not result in
10 significant impacts to the fish and wildlife conservation area, as determined appropriate
11 through the Washington State Department of Fish and Wildlife (WDFW) hydraulic project
12 approval (HPA) process. The plan must demonstrate that salmon habitat will be replaced
13 on a 1:1 ratio.

14 3. Bridge piers or abutments shall not be placed in either the floodway or between the
15 ordinary high water marks unless no other feasible alternative placement exists or to
16 provide mid-span footings for the purpose of increased floodplain connectivity.

17 4. Crossings shall not diminish flood carrying capacity.

18 5. Crossings shall serve multiple properties whenever possible.

19 6. Where there is no reasonable alternative to providing a culvert, the culvert shall be
20 the minimum length necessary to accommodate the permitted activity.

21 E. Stream Relocations. Stream relocations shall not be permitted unless for the purpose of
22 flood protection and/or fisheries restoration and only when consistent with the WDFW
23 hydraulic project approval (HPA) process and the following minimum performance standards:

24 1. The channel, bank and buffer areas shall be replanted and maintained with native
25 vegetation that replicates a natural, undisturbed riparian condition, when required by a
26 habitat management plan; and

27 2. For those shorelands and waters designated as frequently flooded areas pursuant to
28 Chapter [19.500](#), a professional engineer licensed in the state of Washington shall provide
29 information demonstrating that the equivalent base flood storage volume and function
30 will be maintained.

31 3. Relocated stream channels shall be designed to meet or exceed the functions and
32 values of the stream to be relocated.

1 F. Pesticides, Fertilizers and Herbicides. No pesticides, herbicides or fertilizers may be used in
2 fish and wildlife habitat conservation areas or their buffers, except those approved by the U.S.
3 EPA or Washington Department of Ecology for use in fish and wildlife habitat conservation area
4 environments and applied by a licensed applicator in accordance with the safe application
5 practices on the label.

6 G. Land Divisions and Land Use Permits. All proposed divisions of land and land uses
7 (subdivisions, short subdivisions, short plats, long and large lot plats, performance-based
8 developments, conditional use permits, site plan reviews, binding site plans) that include fish
9 and wildlife habitat conservation areas shall comply with the following procedures and
10 development standards:

11 1. The open water area of lakes, streams, and tidal lands shall not be used in calculating
12 minimum lot area.

13 2. Land division approvals shall be conditioned so that all required buffers are dedicated
14 as open space tracts, or as an easement or covenant encumbering the buffer. Such
15 dedication, easement or covenant shall be recorded together with the land division and
16 represented on the final plat, short plat or binding site plan, and title.

17 3. In order to avoid the creation of nonconforming lots, each new lot shall contain at
18 least one building site that meets the requirements of this title, including buffer
19 requirements for habitat conservation areas. This site shall also have access and a sewage
20 disposal system location that are suitable for development and does not adversely impact
21 the fish and wildlife conservation area.

22 4. After preliminary approval and prior to final land division approval, the department
23 may require that the common boundary between a required buffer and the adjacent
24 lands be identified using permanent signs. In lieu of signs, alternative methods of buffer
25 identification may be approved when such methods are determined by the department to
26 provide adequate protection to the buffer.

27 5. In order to implement the goals and policies of this title; to accommodate innovation,
28 creativity, and design flexibility; and to achieve a level of environmental protection that
29 would not be possible by typical lot-by-lot development, the use of the performance-
30 based development process is strongly encouraged for projects within designated fish
31 and wildlife habitat conservation areas.

32 H. Agricultural Restrictions. In all development proposals that would introduce or expand
33 agricultural activities, a net loss of functions and values to the critical area shall be avoided by at
34 least one of the following methods:

35 1. Locate fencing no closer than the outer buffer edge; or

1 2. Implement a farm resource conservation and management plan agreed upon by the
2 conservation district and the applicant to protect and enhance the fish and wildlife habitat
3 conservation area.

4 I. Trails and Trail-Related Facilities. Construction of public and private trails and trail-related
5 facilities, such as benches, interpretive centers, and viewing platforms, may be allowed in fish
6 and wildlife habitat conservation areas or their buffers pursuant to the following standards:

7 1. Trails and related facilities shall, to the extent feasible, be placed on existing road
8 grades, utility corridors, or other such previously disturbed areas.

9 2. Trails and related facilities shall be planned to minimize removal of trees, shrubs,
10 snags and important wildlife habitat.

11 3. Viewing platforms, interpretive centers, benches, and picnic areas, and access to
12 them, shall be designed and located to minimize disturbance of wildlife habitat and/or
13 critical characteristics of the affected conservation area. Platforms shall be limited to one
14 hundred square feet in size, unless demonstrated through a habitat management plan
15 that a larger structure will not result in a net loss of habitat and critical functions.

16 4. Trails and related facilities shall generally be located outside required buffers. Where
17 trails are permitted within buffers they shall be located in the outer twenty-five percent of
18 the buffer, except where stream crossings or for direct access to viewing areas have been
19 approved by the department.

20 5. Trails shall generally be limited to pedestrian use unless other more intensive uses,
21 such as bike or horse trails have been specifically allowed and mitigation has been
22 provided. Trail width shall not exceed five feet unless there is demonstrated need, subject
23 to review and approval by the department. Trails shall be constructed with pervious
24 materials except where determined infeasible.

25 6. Regional or public trails and trail-related facilities as identified in the 2013 Kitsap
26 County Non-Motorized Facility Plan (and associated recognized community trails) and as
27 amended, and provided design considerations are made to minimize impacts to critical
28 areas and buffers shall not be subject to the platform, trail width, or trail material
29 limitations above. Such trails and facilities shall be approved through special use review
30 (Section [19.100.145](#)), unless any underlying permit requires a public hearing.

31 J. Utilities. Placement of utilities within designated fish and wildlife habitat conservation areas
32 and buffers may be allowed pursuant to the following standards:

33 1. The normal and routine utility maintenance or repair authorized in
34 Section [19.100.125](#) shall be allowed within designated fish and wildlife habitat
35 conservation areas, subject to best management practices.

1 2. Construction of utilities may be permitted in fish and wildlife habitat conservation
2 areas or their buffers, only when no practicable or reasonable alternative location is
3 available. Utility construction shall adhere to the development standards set forth in
4 subsections (J)(5) and (6) of this section. As required, special reports (Chapter [19.700](#)) shall
5 be reviewed and approved by the department.

6 3. Construction of sewer lines or on-site sewage systems may be permitted in fish and
7 wildlife habitat conservation areas or their buffers only when: (a) the applicant
8 demonstrates that the location is necessary to meet state or local health code
9 requirements; (b) there are no other practicable alternatives available, and
10 (c) construction meets the requirement of this chapter. Joint use of the sewer utility
11 corridor by other utilities may be allowed.

12 4. New utility corridors shall not be allowed in Class I or II fish and wildlife habitat
13 conservation areas (Section [19.300.310](#)(B) and (C)) except in those circumstances where
14 an approved HMP indicates that the utility corridor will not significantly impact the
15 conservation area.

16 5. Utility corridor construction and maintenance shall protect the environment of fish
17 and wildlife habitat conservation areas and their buffers by utilizing the following
18 methods:

19 a. New utility corridors shall be aligned to avoid cutting trees greater than twelve
20 inches in diameter at breast height (four and one-half feet) measured on the uphill
21 side, unless no reasonable alternative location is available.

22 b. In order of preference, new utility corridors shall be located:

23 i. On an existing road;

24 ii. On an existing bridge;

25 iii. Placed deep enough under the culvert to allow for future culvert
26 replacement and to avoid grade barriers.

27 c. New utility corridors shall be revegetated with appropriate native vegetation at
28 not less than preconstruction vegetation densities or greater, immediately upon
29 completion of construction, or as soon thereafter as possible due to seasonal
30 growing constraints. The utility entity shall ensure that such vegetation survives.

31 d. Any additional corridor access for maintenance shall be provided at specific
32 points rather than by parallel roads, unless no reasonable alternative is available. If
33 parallel roads are necessary, they shall be the minimum width necessary for access,
34 but no greater than fifteen feet; and shall be contiguous to the location of the utility

1 corridor on the side away from the conservation area. Mitigation will be required for
2 any additional access through restoration of vegetation in disturbed areas.

3 6. Utility corridor maintenance shall include the following measures to protect the
4 environment of fish and wildlife habitat conservation areas:

5 a. Utility towers shall be painted with brush, pad or roller and shall not be
6 sandblasted or spray painted, unless appropriate containment measures are used.
7 Lead-based paints shall not be used.

8 b. No pesticides, herbicides or fertilizers may be used in fish and wildlife habitat
9 conservation areas or their buffers except those approved by the U.S. Environmental
10 Protection Agency (EPA) and Washington Department of Ecology. Where approved,
11 they must be applied by a licensed applicator in accordance with the safe application
12 practices on the label.

13 K. Bank Stabilization. A stream channel and bank, or shoreline, may be stabilized when
14 documented naturally occurring earth movement presents an imminent threat to existing
15 primary structures (defined as requiring a building permit pursuant to Chapter [14.04](#), the Kitsap
16 County Building and Fire Code), to public improvements, to unique natural resources, to public
17 health, safety or welfare, to the only feasible access to property, or, in the case of streams,
18 when such stabilization results in the maintenance of fish and wildlife habitat, flood control for
19 the protection of primary structures and appurtenances, or improved water quality.

20 1. Channel, bank and shoreline stabilization may also be subject to the standards of
21 Titles [15](#) (Flood Hazard Areas) and [22](#) (Shoreline Master Program). Documentation of
22 earth movement and/or stability shall be provided through Section [19.700.725](#) (special
23 reports), geological and geotechnical report requirements.

24 2. Where bank stabilization is determined to be necessary, soft-shore protective
25 techniques shall be evaluated and may be required over other types of bank protection.
26 Techniques include, but are not limited to, gravel berms, vegetation plantings, and
27 placement of large, woody debris (logs and stumps), or recommended techniques in
28 accordance with an approved critical area assessment and the guidelines of the
29 Washington State Integrated Streambank Protection Guidelines (2003, or as amended).
30 Special consideration shall be given to protecting the functions of channel migration
31 zones.

32 3. Bulkheads and retaining walls may only be utilized as an engineering solution where it
33 can be demonstrated through a geotechnical report (see Section [19.700.725](#)) that an
34 existing residential structure cannot be safely maintained without such measures, and
35 that the resulting retaining wall is the minimum length necessary to provide a stable
36 building area for the subject structure. A variance pursuant to Section [19.100.135](#) must be
37 obtained in all other cases.

1 4. The department may require that bank stabilization be designed by a professional
2 engineer licensed in the state of Washington with demonstrated expertise in hydraulic
3 actions of rivers and streams. Bank stabilization projects may also require a Kitsap County
4 site development activity permit under Title [12](#) (Storm Water Drainage) or a hydraulic
5 project approval (HPA) from WDFW.

6 ~~L.—Fencing and Signs. Prior to approval or issuance of permits for land divisions and new
7 development, the department may require that the common boundary between a required
8 buffer and the adjacent lands be identified using fencing or permanent signs. In lieu of fencing
9 or signs, alternative methods of buffer identification may be approved when such methods are
10 determined by the department to provide adequate protection to the buffer.~~

11 ~~LM.~~ Forest Practice, Class IV General and Conversion Option Harvest Plans (COHPs). All timber
12 harvesting and associated development activity, such as construction of roads, shall comply
13 with the provisions of this title, and with Titles [12](#) (Storm Water Drainage) and [22](#) (Shoreline
14 Master Plan), including the maintenance of buffers, where required.

15 ~~MA.~~ Road/Street Repair and Construction. When no other reasonable or practicable
16 alternative exists, road or street expansion or construction is allowed in fish and wildlife habitat
17 conservation areas or their buffers, subject to the following minimum development standards:

- 18 1. The road or street shall serve multiple properties whenever possible;
- 19 2. Public and private roads should provide for other purposes, such as utility corridor
20 crossings, pedestrian or bicycle easements, viewing points, etc.;
- 21 3. The road or street construction is the minimum necessary, as required by the
22 department, and shall comply with the department’s guidelines to provide public safety
23 and mitigated storm water impacts;
- 24 4. Construction time limits shall be determined in consultation with WDFW in order to
25 ensure habitat protection; and
- 26 5. Mitigation shall be performed in accordance with specific project mitigation
27 requirements.

28 ~~N. Enhancement Activities. The following development activities shall be exempt from the
29 habitat assessment report and mitigation requirements of this section:~~

30 ~~1. Development undertaken for the sole purpose of creating, restoring, or enhancing the
31 natural functions of floodplains, streams, watercourses, fish and wildlife habitat, or
32 riparian areas; provided, that:~~

33 ~~a. The project complies with all other applicable federal, state, and local permit
34 requirements and regulations; and~~

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b. The development activities do not include the placement of fill or the creation of additional impervious surface areas.

2. Enhancement projects sponsored by Kitsap County, Washington Department of Fish and Wildlife, Kitsap County Conservation District, U.S. Natural Resources Conservation Service, U.S. Fish and Wildlife Service, Washington Department of Natural Resources, or other public agency approved by the Director which are consistent with the County Comprehensive Plan, County floodplain management plans, water quality plans, and other plans adopted by the Kitsap County Board of Commissioners.

DRAFT

Chapter 19.400

GEOLOGICALLY HAZARDOUS AREAS

Sections:

[19.400.405 Purpose and applicability.](#)

[19.400.410 General requirements.](#)

[19.400.415 Designation of geologically hazardous areas.](#)

[19.400.420 Erosion hazard areas.](#)

[19.400.425 Landslide hazard areas.](#)

[19.400.430 Seismic hazard areas.](#)

[19.400.435 Development standards.](#)

[19.400.440 Review procedures.](#)

[19.400.445 Recording and disclosure.](#)

19.400.405 Purpose and applicability.

A. This chapter regulates uses and activities in those areas susceptible to erosion, sliding, earthquake, or other geologic events. Some geological hazards can be reduced or mitigated by engineering, design, or modified construction or mining practices so that risks to public health and safety are minimized.

The intent of this chapter is to:

1. Provide standards to protect human life and property from potential risks;
2. Regulate uses of land in order to avoid damage to structures and property being developed and damage to neighboring land and structures;
3. Control erosion, siltation, and water quality to protect anadromous and resident fish and shellfish;
4. Provide controls to minimize erosion caused by human activity; and
5. Use innovative site planning by placing geologically hazardous areas and buffers in open space and transferring development density to suitable areas on the site.

B. This chapter applies to development activities, actions requiring project permits, and clearing, except those identified as exempt in Section [19.100.125](#) and except those activities related to soils testing or topographic surveying of slopes for purposes of scientific investigation, site feasibility analysis, and data acquisition for geotechnical report preparation, provided it can be accomplished without road construction.

(Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 30, 2005: Ord. 217 (1998) § 3, (part), 1998)

19.400.410 General requirements.

A. Any development activity or action requiring a project permit or any clearing within an erosion or landslide area shall:

1. Comply with the requirements in an approved geotechnical report when one is required, including application of the largest buffer and/or building setback;
2. Utilize best management practices (BMPs) and all known and available technology appropriate for compliance with this chapter and typical of industry standards;
3. Prevent collection, concentration or discharge of storm water or groundwater within an erosion or landslide hazard area and be in compliance with Title [12](#) (Storm Water Drainage);
4. Minimize impervious surfaces and retain vegetation to minimize risk of erosion or landslide hazards.

B. Any development activity or action requiring a project permit or any clearing within an erosion or landslide area shall not:

1. Result in increased risk of property damage, death or injury;
2. Cause or increase erosion or landslide hazard risk;
3. Increase surface water discharge, sedimentation, slope instability, erosion or landslide potential to adjacent downstream and down-drift properties beyond predevelopment conditions;
4. Adversely impact wetlands, fish and wildlife habitat conservation areas or their buffers; or
5. Be identified as a critical facility necessary to protect public health, safety and welfare. This includes, but is not limited to, schools, hospitals, police stations, fire departments and other emergency response facilities, nursing homes, and hazardous material storage or production.

C. Field Marking Requirements. The proposed clearing for the project and all critical area buffers shall be marked in the field for inspection and approval by the department prior to beginning work. Field marking requirements for construction of a single-family dwelling will be determined on a case-by-case basis by the department. The field marking of all buffers shall remain in place until construction is completed, and final approval is granted by the department. Permanent marking may be required as determined necessary to protect critical areas or its buffer.

1 D. Clearing, Grading and Vegetation Removal.

2 1. Minor pruning of vegetation for view enhancement may be allowed through
3 consultation with the department. The thinning of limbs on individual trees is preferred to
4 topping of trees for view corridors. Total buffer thinning shall not exceed twenty-five
5 percent and no more than thirty percent of the live tree crowns shall be removed.

6 2. Vegetation shall not be removed from a landslide hazard area or erosion hazard area,
7 except for hazardous trees based on review by a qualified arborist or as otherwise
8 provided for in a vegetation management and restoration plan and with support of the
9 qualified geological or geotechnical engineer as required by this Chapter.

10 3. Seasonal Restrictions. Clearing and grading shall be limited to the period between
11 May 1st and October 1st, unless the applicant provides an erosion and sedimentation
12 control plan prepared by a professional engineer licensed in the state of Washington that
13 specifically and realistically identifies methods of erosion control for wet weather
14 conditions.

15 4. Only the clearing necessary to install temporary erosion control measures will be
16 allowed prior to clearing for roads and utilities construction.

17 5. The faces of cut and fill slopes shall be protected to prevent erosion as required by
18 the engineered erosion and sedimentation control plan.

19 6. Clearing for roads and utilities shall be the minimum necessary and shall remain
20 within marked construction limits.

21 7. Clearing for overhead power lines shall be the minimum necessary for construction
22 and will provide the required minimum clearances for the serving utility corridor.

23 E. Existing Logging Roads. Where existing logging roads occur in geologically hazardous areas,
24 a geological assessment may be required prior to use as a temporary haul road or permanent
25 access road under a conversion or COHP forest practices application.

26 F. The department may also require:

27 1. Clustering to increase protection to geologically hazardous areas; or

28 2. Enhancement of buffer vegetation to increase protection to geologically hazardous
29 areas.

30 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

31 **19.400.415 Designation of geologically hazardous areas.**

1 The county has designated geologically hazardous areas pursuant to RCW [36.70A.170](#) by
2 defining them and providing criteria for their identification. Project proponents are responsible
3 for determining whether a geologically hazardous area exists and is regulated pursuant to this
4 chapter. The department will verify on a case-by-case basis the presence of geologically
5 hazardous areas identified by project proponents. Specific criteria for the designation of
6 geologically hazardous areas are contained in this chapter. While the county maintains some
7 maps of potentially geologically hazardous areas, they are for informational purposes only and
8 may not accurately represent all such areas.

9 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

10 **19.400.420 Erosion hazard areas.**

11 A. General. Erosion hazard areas include areas likely to become unstable, such as bluffs, steep
12 slopes, and areas with unconsolidated soils. These include coastal erosion-prone areas and
13 channel migration zones, and may be inclusive of landslide areas.

14 B. Potential Erosion Hazard Areas. Potential erosion hazard areas are depicted on the Kitsap
15 County erosion hazards map. These potential erosion hazard areas are identified using the
16 following criteria:

17 1. Areas of High Erosion Hazard.

18 a. Channel migration zones, as mapped by the Washington Department of Ecology
19 [or other source mapped in accordance with Washington Department of Ecology](#)
20 [guidance, such as the Department of Natural Resources Geologic Information Portal;](#)

21 b. Coastal erosion with a sediment source rating value of 0.6 to 1.0, per the
22 Prioritization Analysis of Sediment Sources in Kitsap County;

23 2. Areas of Moderate Erosion Hazard.

24 a. Slopes fifteen percent or greater, not classified as I, U, UOS, or URS, with soils
25 classified by the U.S. Department of Agriculture NRCS as “highly erodible” or
26 “potentially highly erodible”;

27 b. Coastal erosion with a sediment source rating value of 0.3 to 0.6 per the
28 Prioritization Analysis of Sediment Sources in Kitsap County.

29 C. Erosion Hazard Indicators. The project proponents are responsible for determining actual
30 presence and location of an erosion hazard area. These areas may be indicated by, but not
31 limited to, the following:

1 1. Any of the above criteria currently identified in subsection (B) of this section or
2 amended hereafter.

3 2. Coastal Erosion Hazards.

4 a. Areas with active bluff retreat that exhibit continuing sloughing or calving of bluff
5 sediments, resulting in a vertical or steep bluff face with little or no vegetation;

6 b. Lands located directly adjacent to freshwater or marine waters that are
7 identified as regressing, retreating, or potentially unstable as a result of undercutting
8 by wave action or bluff erosion. The limits of the active shoreline erosion hazard area
9 shall extend landward to include that land area that is calculated, based on the rate
10 of regression, to be subject to erosion processes within the next ten-year time
11 period.

12 3. Channel Migration Zones. The lateral extent that a river or stream is expected to
13 migrate over time due to hydrologically and geomorphologically related processes, as
14 indicated by historic record, geologic character, and evidence of past migration over the
15 past one hundred years.

16 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

17 **19.400.425 Landslide hazard areas.**

18 A. General. Landslide hazard areas include those areas at risk of mass movement due to a
19 combination of geologic, topographic, and hydrologic factors, such as bedrock, soil, slope
20 (gradient), slope aspect, structure, hydrology, and other factors. Landslide hazards are further
21 classified as either shallow or deep-seated.

22 B. Potential Landslide Hazard Areas. Potential landslide hazard areas are depicted on the
23 Kitsap County landslide hazards map. These potential landslide hazard areas are identified
24 using the following criteria:

25 1. Areas of High Landslide Hazard.

26 a. Shallow landslide areas with factor of safety (FS) of 0.5 to 1.5. FS is a method
27 (Harp, 2006) for determining slope stability based on the angle of the slope from
28 LiDAR elevation data and strength parameters.

29 b. Areas with slopes greater to or equal to 30 percent in grade and deemed by a
30 qualified geologist or geotechnical engineer to meet the criteria of U, UOS, or URS.

31 c. All deep-seated landslide areas.

- 1 2. Areas of Moderate Landslide Hazard.
- 2 a. Shallow landslide areas with FS of 1.5 to 2.5.
- 3 b. Slopes of fifteen percent or greater and not classified as I, U, UOS, or URS, with
4 soils classified by the U.S. Department of Agriculture NRCS as “highly erodible” or
5 “potentially highly erodible”; or slopes of fifteen percent or greater with springs or
6 groundwater seepage.
- 7 c. Slopes in all areas equal to or greater than forty percent.
- 8 C. Landslide Hazard Indicators. Project proponents are responsible for determining the actual
9 presence and location of a landslide hazard area. These areas may be indicated by, but not
10 limited to, the following:
 - 11 1. Any of the above criteria currently identified in subsection (B) of this section or
12 amended hereafter;
 - 13 2. Areas of historic failures, including areas of unstable, old and recent landslides or
14 landslide debris within a head scarp;
 - 15 3. Areas within active bluff retreat that exhibit continuing sloughing or calving of bluff
16 sediments, resulting in a vertical or steep bluff face with little or no vegetation;
 - 17 4. Hillside that intersect geologic contacts with a relatively permeable sediment
18 overlying a relatively impermeable sediment or bedrock;
 - 19 5. Slopes that are parallel or sub-parallel to planes of weakness, such as bedding planes,
20 joint systems, and fault planes in subsurface materials;
 - 21 6. Areas exhibiting geomorphological features indicative of past slope failure, such as
22 hummocky ground, back-rotated benches on slopes, etc.;
 - 23 7. Areas with tension cracks or ground fractures along and/or near the edge of the top
24 of a bluff or ravine;
 - 25 8. Areas with structures that exhibit structural damage such as settling and cracking of
26 building foundations or separation of steps or porch from a main structure that is located
27 near the edge of a bluff or ravine;
 - 28 9. The occurrence of toppling, leaning, bowed, or jackstrawed trees that are caused by
29 disruptions of ground surface by active movement;

1 10. Areas with slopes containing soft or liquefiable soils, such as areas with
2 unconsolidated glacial deposits subject to elevated groundwater levels after prolonged
3 rainfall or rain-on-snow events;

4 11. Areas where gullying and surface erosion have caused dissection of the bluff edge or
5 slope face as a result of drainage or discharge from pipes, culverts, ditches, and natural
6 drainage courses;

7 12. Areas where seeps, springs or vegetative indicators of a shallow groundwater table
8 are observed on or adjacent to the face of the slope;

9 13. Areas that include alluvial or colluvial fans located at the base of steep slopes and
10 drainages;

11 14. Areas within two hundred feet of areas classified as U, UOS, or URS.

12 15. Areas within potential landslide runout distance greater than the slope height as
13 measured from toe of slope or as determined in a geological hazards geotechnical report.

14 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

15 **19.400.430 Seismic hazard areas.**

16 A. General. Seismic hazard areas are areas subject to severe risk of damage as a result of
17 earthquake-induced land sliding, seismic ground shaking, dynamic settlement, fault rupture,
18 soil liquefaction, or flooding caused by tsunamis and seiches.

19 B. Potential Seismic Hazard Areas. Potential seismic hazard areas are depicted on the Kitsap
20 County seismic hazards map. These potential seismic hazard areas are identified using the
21 following criteria:

22 1. Areas of high seismic hazard are those areas with faults that have evidence of rupture
23 at the ground surface.

24 2. Areas of moderate seismic hazard.

25 a. Areas susceptible to seismically induced soil liquefaction, such as hydric soils as
26 identified by the NRCS, and areas that have been filled to make a site more suitable
27 for development. This may include former wetlands that have been covered with fill.

28 b. Areas identified as Seismic Site Class D, E, and F.

29 c. Faults without recognized evidence of rupture at the ground surface.

1 C. Seismic Hazard Indicators. Project proponents are responsible for determining actual
2 presence and location of a seismic hazard area. These areas may be indicated by, but not
3 limited to, the following:

4 1. Any of the above criteria currently identified in subsection (B) of this section or
5 amended hereafter;

6 2. Areas identified as potential landslide areas, including slopes that can become
7 unstable as a result of strong ground shaking, even though these areas may be stable
8 under nonseismic conditions;

9 3. Areas identified as high and moderate liquefaction and dynamic settlement hazard
10 areas by the Washington Department of Natural Resources, including areas underlain by
11 unconsolidated sandy or silt soils and a shallow groundwater table (static groundwater
12 depth less than thirty feet) capable of liquefying in response to earthquake shaking.
13 Dynamic settlement hazard areas are those underlain by more than ten feet of loose or
14 soft soil not susceptible to liquefaction, but that could result in vertical settlement of the
15 ground surface in response to earthquake shaking;

16 4. Tsunami and seiche hazard areas. Generally, these are areas that are adjacent to
17 Puget Sound marine waters and lakes with shoreline elevations at risk of flooding under
18 projected wave propagation models. These include, but are not limited to, areas that are
19 designated as "A" or "V" zones as identified by FEMA and depicted on the FEMA maps or
20 other maps adopted by Kitsap County;

21 5. Fault rupture hazard areas, including areas where displacement (movement up,
22 down, or laterally) of the ground surface has occurred during past earthquake(s) in the
23 Holocene Epoch, and areas adjacent that may be potentially subject to ground surface
24 displacement in a future earthquake.

25 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

26 **19.400.435 Development standards.**

27 A. Erosion and Landslide Hazard Development Standards.

28 1. Development activities or actions requiring project permits or clearing shall not be
29 allowed in landslide hazard areas or erosion hazard areas unless a geological assessment
30 geotechnical report demonstrates that development building within a landslide hazard
31 area will provide protection commensurate to being located outside the landslide hazard
32 area and meets the requirements of this section. This may include proposed mitigation
33 measures.

1 2. Top of Slope ~~Buffer and~~ Building Setback. All development activities or actions that
2 require project permits or clearing in erosion and landslide hazard areas shall provide
3 native vegetation from the toe ~~to the top of the slope of the slope to twenty-five feet~~
4 ~~beyond the top of slope, with an additional minimum fifteen-foot building and impervious~~
5 ~~surface setback, unless otherwise allowed through a geologic assessment.~~ The minimum
6 ~~buffer and~~ building ~~and~~ setback shall be ~~modified increased~~ from the top of the slope as
7 follows:

8 ~~a.~~ For moderate and high erosion hazard areas, the vegetated buffer shall be
9 twenty-five feet beyond the top of slope, with an additional minimum fifteen-foot
10 building and impervious surface setback, unless otherwise allowed through a
11 geologic assessment.

12 ~~b.a.~~ For high landslide hazard areas, the vegetated buffer shall be twenty-five feet
13 beyond the top of the slope, and the overall setback shall be equal to the height of
14 the slope (1:1 horizontal to vertical) plus the greater of one-third of the vertical slope
15 height or twenty-five feet.

16 ~~c.b.~~ For moderate landslide hazard areas, the vegetated buffer shall be twenty-five
17 feet beyond the top of the slope, and the overall setback shall be forty feet from the
18 top of slope.

19 3. Toe of Slope Building Setback. A geotechnical report may be required based on slope
20 height and stability indicators. Where slope hazard indicators are not identified, the
21 requirements of Chapter [14.04](#), the Kitsap County Building and Fire Code, will apply.

22 4. The department may require a larger native vegetation width than the standard
23 buffer distance as determined above, if any of the following are identified through the
24 geological assessment process:

25 ~~a.~~ The adjacent land is susceptible to severe erosion and erosion control measures
26 will not effectively prevent adverse impacts; or

27 b. The area has a severe risk of slope failure or downslope storm water drainage
28 impacts.

29 5. The minimum native vegetation width and/or building setback requirement may
30 be decreased if a geotechnical report demonstrates that a lesser distance, through
31 design and engineering solutions, will adequately protect both the proposed
32 development and the erosion or landslide hazard area. The department may
33 decrease the setback when such a setback would result in a greater than 1:1 slope
34 setback.

35 B. Seismic Hazard Development Standards.

1 1. Development activities or actions requiring a project permit occurring within two
2 hundred feet of a “high hazard” seismic hazard area may be allowed with an approved
3 geotechnical report that confirms the site is suitable for the proposed development and
4 addresses any fill or grading that has occurred on the subject parcel.

5 2. For “moderate hazard” seismic hazard areas, a geologic assessment may be
6 requested by the department to confirm the site is suitable for the proposed
7 development.

8 ~~3.2.~~ Development activities or actions requiring a project permit within a seismic hazard
9 area shall be in accordance with Chapter [14.04](#), the Kitsap County Building and Fire Code.

10 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 32, 2005. Formerly 19.400.415)

11 **19.400.440 Review procedures.**

12 A. Map Review. The Kitsap County geologically hazardous areas maps (erosion, landslide, and
13 seismic) provide an indication of where potential geologically hazardous areas are located
14 within the county. The department will complete a review of the map to determine if the
15 proposed activity is located within a hazard area.

16 B. A geological assessment shall be required when the proposed activity is located within a
17 potential hazard area.

18 C. A qualified professional, as described in Section [19.700.715](#), shall complete a field
19 investigation and geological assessment to determine whether or not the site for the proposed
20 activity is affected by the geologic hazard, as provided in subsection (D) of this section.

21 D. The geological assessment shall be submitted in the most applicable form as follows:

22 1. A geological letter. When the geologist or geotechnical professional finds that no
23 hazard area exists within two hundred feet of the site, a stamped letter may be submitted
24 demonstrating those findings;

25 2. A geological report. When the geologist finds that a geologically hazardous area exists
26 within two hundred feet of the site, but will not impact the site or need engineering
27 design recommendations;

28 3. A geotechnical report. When the geotechnical engineer finds that a geologically
29 hazardous area exists within two hundred feet of the site, and will require engineering
30 design recommendations or other mitigation measures necessary in order to construct or
31 develop within the geologically hazardous area.

32 E. The department shall review the geological assessment and either:

- 1 1. Accept the geological assessment and approve the application; or
- 2 2. Reject the geological assessment and require revisions or additional information.

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

4 **19.400.445 Recording and disclosure.**

5 A. The following information shall be included in a notice to title that must be signed,
6 ~~notarized~~, and recorded with the county auditor prior to permit issuance for development in a
7 geologically hazardous area where a geotechnical report has identified recommended actions
8 and/or mitigation measures that are in addition to the standard development requirements of
9 KCC 19.400.435 requiring a geotechnical report:

10 1.A. An abstract and description of the specific types of risks identified in the
11 geotechnical report;

12 2.B. A statement that the owner(s) of the property understands and accepts the
13 responsibility for the risks associated with developments on the property given the
14 described condition, and agrees to inform future purchasers and other successors and
15 assignees of the risks; and

16 3.C. A statement that the owner(s) of the property acknowledge(s) that this chapter
17 does not create liability on the part of Kitsap County or any officer or employee thereof
18 for any damages that result from reliance on this chapter or any administrative decision
19 lawfully made thereunder.

20 B. Any monitoring recommendations stated in a geological assessment is the responsibility of
21 the landowner.

22 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)

23

Chapter 19.700

SPECIAL REPORTS

Sections:

- [19.700.705 Special reports.](#)
- [19.700.710 Wetland delineation report.](#)
- [19.700.715 Wetland mitigation report.](#)
- [19.700.720 Habitat management plan \(HMP\).](#)
- [19.700.725 Geological assessments.](#)
- [19.700.730 Hydrogeological report.](#)

19.700.705 Special reports.

A. Purpose. The following special reports may be required to provide environmental information and to present proposed strategies for maintaining, protecting and/or mitigating impacts to critical areas:

1. Wetland delineation report (Section [19.700.710](#)).
2. Wetland mitigation plan (Section [19.700.715](#)).
3. Habitat management plan (Section [19.700.720](#)).
4. Geotechnical report/geological report (Section [19.700.725](#)).
5. Hydrogeological report (Section [19.700.730](#)).

B. When Required. Special reports shall be submitted by the applicant for approval by the department when required by this title.

C. Responsibility for Completion. The applicant shall pay for or reimburse the county for the costs incurred in the preparation of special reports or tests, and for the costs incurred by the county to engage technical consultants or staff for review and interpretation of data and findings submitted by or on behalf of the applicant. The applicant shall pay permit fees or technical assistance fees as required by Title [21](#), as now or hereafter amended. In such circumstances where a conflict in the findings of a special report and the findings of the county in review of the special report exists, the applicant or affected party may appeal such decisions of the county pursuant to the procedures in Section [19.100.150](#) (Appeals) and Chapter [21.04](#).

D. Qualifications of Professionals. Any special report required herein shall be prepared and signed by the professionals identified below and in Chapter [19.150](#), and shall include his or her resume, or other list of qualifications, to aid the department in assessing these qualifications.

1 E. Timeframe. All special reports shall be considered valid for a period of 5-years from the date
2 of the report unless otherwise indicated by the author for a greater or lesser timeframe.
3 Reports may be required to be supplemented with an addendum letter or report should a
4 complete application be received more than 5 years from the date of the original report, if the
5 report is not addressing the specific proposal, or if the criteria for assessing the critical area has
6 been updated after the date on the report (wetland rating system, for example).

7 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 36 (part), 2005)

8 | **19.700.710 Wetland delineation report.**

9 A. Wetland delineation reports shall be valid for a period of five years from the date of the
10 report unless a longer or shorter period is specified by the department. An extension of an
11 original report may be granted upon submittal of a written request to the department prior to
12 expiration. Prior to granting an extension, the department may require updated studies if, in its
13 judgment, the original intent of the application is altered, enlarged or if circumstances relevant
14 to the review and issuance of the original permit have changed substantially, or if the applicant
15 failed to abide by the terms of the original approval. Time extensions shall be granted in writing
16 and documented in the file.

17 B. A wetland delineation report shall include, but not be limited to, the following:

18 1. Vicinity map;

19 2. When available:

20 a. A copy of a National Wetland Inventory Map (U.S. Fish and Wildlife Service)
21 and/or a Kitsap County wetland inventory map identifying the wetlands on or within
22 three hundred two hundred fifty feet of the site;

23 b. A copy of any known previous delineations or investigations;

24 c. A copy of forms used to delineate the wetland area (1987 Wetland Delineation
25 Manual, Western Mountains, Valleys, and Coast Regional Supplement);

26 3. A site map setting forth all of the following:

27 a. Surveyed wetland boundaries based upon a delineation by a wetlands specialist;

28 b. Site boundary property lines and roads;

29 c. Internal property lines, rights-of-way, easements, etc.;

- 1 d. Existing physical features of the site including buildings, fences, and other
2 structures, roads, parking lots, utilities, water bodies, etc.;
 - 3 e. Contours at the smallest readily available intervals, preferably at two-foot
4 intervals;
 - 5 f. Hydrologic mapping showing patterns of surface water movement and known
6 subsurface water movement into, through, and out of the site area;
 - 7 g. Location of all test holes and vegetation sample sites, numbered to correspond
8 with flagging in the field and field data sheets;
 - 9 h. The most recent, dated air photo with overlays displaying the site boundaries
10 and wetland delineation;
- 11 4. Location information (legal description, parcel number and address);
 - 12 5. Discussion of wetland boundary. The delineation report shall delineate the entire
13 wetland boundary. If the wetland extends outside the site, the delineation report shall
14 discuss methods for delineation beyond the site if physical access was not granted.
15 Remote mapping methods may be used, but this should be noted in the report;
 - 16 6. General site conditions within one-quarter mile of the subject wetland(s), including
17 topography, acreage, and surface areas of all wetlands identified in the Kitsap County
18 wetland inventory map and water bodies, including ditches and streams;
 - 19 7. Hydrological analysis, including topography, of existing surface and known significant
20 subsurface flows into and out of the subject wetland(s), and location of the wetland within
21 the watershed;
 - 22 8. Analysis of the functional values of existing wetland(s), including vegetative, fauna,
23 habitat, water quality, and hydrologic conditions;
 - 24 9. A summary of proposed activity and potential impacts to the wetland(s);
 - 25 10. Recommended wetland category using the Washington State Wetlands Rating
26 System categories (see Chapter [19.800](#), Appendix A), including rationale for the
27 recommendation and a copy of the completed Wetland Rating Summary Form with
28 associated figures;
 - 29 11. Recommended buffer boundaries, including rationale for boundary locations;

1 12. Site plan of proposed activity, including location of all parcels, tracts, easements,
2 roads, structures, and other modifications to the existing site. The location of all wetlands
3 and buffers shall be identified on the site plan.

4 C. Administrative Wetland Boundary and Ranking Evaluation.

5 1. ~~If resources allow, t~~The department may delineate and evaluate wetland areas for any
6 proposed single-family dwelling project listed in Chapter [19.200](#) (Wetlands), unless the
7 applicant wishes to employ a qualified wetland biologist at the applicant's expense, or a
8 wetland delineation report is required by the department. Fees may be collected for this
9 determination and evaluation, as specified in Title [21](#).

10 2. The wetland boundary shall be field-staked prior to department review and this line
11 shall be depicted on the building site plan application.

12 3. The wetland boundary and buffer shall be identified on all grading, building site, utility
13 or other development plans submitted on the project. Wetland delineation stakes shall
14 remain in place for the duration of the application process and not removed until project
15 completion/final inspection when wetland buffer signs have been reviewed and installed.

16 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 36 (part), 2005)

17 **19.700.715 Wetland mitigation report.**

18 A. Compensatory mitigation shall be required for activities that result in the loss of wetland
19 acreage or functions, in accordance with Section [19.200.230](#) (Wetland mitigation requirements).

20 1. A compensatory mitigation plan shall be completed. The applicant shall submit a
21 detailed mitigation plan for compensatory mitigation to the department.

22 2. The detailed mitigation plan shall be prepared, signed, and dated by the wetland
23 specialist to indicate that the plan is in accordance with specifications as determined by
24 the wetland specialist. A signed original mitigation plan shall be submitted to the
25 department.

26 3. Approval of the detailed mitigation plan shall be signified by a notarized
27 memorandum of agreement, signed by the applicant and department director or
28 designee. The agreement shall refer to all requirements for the mitigation project.

29 4. The mitigation project shall be completed according to a schedule agreed upon
30 between the department and the applicant.

31 5. Wetland mitigation shall occur according to the approved wetland mitigation plan and
32 shall be consistent with provisions of this chapter and title.

1 6. The wetland specialist shall be on site during construction and plant installation
2 phases of all mitigation projects.

3 7. Upon completion of construction for the wetland mitigation project, the wetland
4 specialist shall submit an as-built report to the department for review and approval.

5 B. As required by Section [19.200.230](#) (Wetland mitigation requirements), a mitigation report
6 shall be prepared and shall contain the following:

7 1. Cover/Title Page.

8 a. Project name.

9 b. Reference numbers to other permit applications (local, state and/or federal).

10 c. Date of publication.

11 d. Who it was prepared for/contact information.

12 e. Who it was prepared by/contact information.

13 2. Table of contents, including a list of figures and tables.

14 3. Responsible Parties. Provide the names, titles, addresses, phone numbers, and
15 information regarding the professional experience (if applicable) for those involved in the
16 development and mitigation projects. Provide the name of the company or agency, as
17 well as the individuals involved.

18 a. Applicant(s).

19 b. Applicant's representative/agent.

20 c. Preparer(s) of the wetland delineation report.

21 d. Preparer(s) of the mitigation report, mitigation construction plans and
22 specifications.

23 e. Parties responsible for monitoring, long-term maintenance, and contingency
24 plans. If this is unknown at the time the mitigation report is submitted, provide this
25 information with the monitoring reports.

26 4. Executive summary that summarizes the project, its potential wetland-related
27 impacts, and the proposed mitigation. The executive summary shall include the following
28 information:

- 1 a. Applicant name/address/phone.
- 2 b. Agent/consultant.
- 3 c. Description of land use proposal and location.
- 4 d. Description of the measures taken to avoid and minimize the impacts to the
- 5 wetland and other aquatic resources.
- 6 e. Description of unavoidable wetland impacts and the proposed compensatory
- 7 mitigation measures:
 - 8 i. Size (acres);
 - 9 ii. Cowardin wetland classification;
 - 10 iii. Hydrogeomorphic (HGM) classification;
 - 11 iv. Wetland rating;
 - 12 v. Wetland functions;
 - 13 vi. Compensation ratios used.
- 14 f. Description of mitigation area.
- 15 g. Explanation of other unavoidable impacts to other aquatic resources.
- 16 h. Other relevant details, including but not limited to:
 - 17 i. Goals and objectives.
 - 18 ii. Proposed improvements to the functions and environmental processes of
 - 19 the larger watershed.
 - 20 iii. Proposed buffers for the compensatory mitigation site (minimum and
 - 21 maximum width and total area).
- 22 5. Project Description.
 - 23 a. Type of development (existing and proposed land uses).
 - 24 b. Development project size.

- 1 c. Implementation schedule (start date and duration).
- 2 d. Project Location and Maps.
- 3 i. Section, township, range.
- 4 ii. Water resource inventory area (WRIA).
- 5 iii. Watershed and subwatershed.
- 6 iv. Vicinity map.
- 7 e. Description of the Development Site.
- 8 i. Historic and current land uses, zoning designations, and structures on
9 development site and adjacent properties (if known).
- 10 ii. A local area map (zoning, land use, wetlands, other aquatic resources, one-
11 hundred-year floodplain).
- 12 iii. Existing wetlands on or adjacent to the development site. Attach
13 delineation report.
- 14 iv. Other aquatic resources on the site or adjacent properties, noting
15 hydrologic connections. Describe any flooding that affects the development site
16 and the location of the development within the floodplain, where applicable.
- 17 v. Known historic or cultural resources on the development site.
- 18 6. Ecological Assessment of Impact.
- 19 a. Description of the impacts and extent of disturbance to wetlands (including
20 acreage). This includes temporary, indirect, and direct impacts.
- 21 b. Description of the site in context of other wetlands/water bodies.
- 22 c. Description of the Water Regime.
- 23 i. Describe the source of water to the wetland being affected by the
24 development project. For multiple sources, estimate the percentage of each.
- 25 ii. Describe the hydrologic regime of the wetland being affected through
26 qualitative estimates of duration and frequency of inundation/saturation.

1 iii. Map of the surface and groundwater flowing into the impacted areas with
2 the directions of water flow indicated.

3 d. Description of the Soils.

4 i. Description of the soil characteristics of the wetland being affected including
5 soil type and classification, and a description of texture, color, structure,
6 permeability, and organic content.

7 ii. Soil survey map (indicate the source of the map).

8 iii. Map showing soil sampling locations (typically the location of the soil pits
9 used for delineation).

10 e. Description of the Plant Communities.

11 i. Qualitative descriptions of the different Cowardin (1979) classes at the
12 wetland being affected (including subclass and water regime modifiers). If a
13 forested class is present, also estimate the average age of the canopy species.

14 ii. Estimate the relative abundance of dominant and subdominant plants
15 within each Cowardin class (use information collected during routine
16 delineation unless more detailed data are available).

17 iii. List of the wetland indicator status of dominant and subdominant species
18 (obligate – OBL, facultative – FAC, facultative wet – FACW).

19 iv. Description of the prevalence and distribution of nonnative and/or invasive
20 species, if any are present at the wetland being affected.

21 v. General description of upland plant communities within three hundred
22 thirty feet (one hundred meters) of the wetland being affected, if any.

23 vi. List of rare plants and plant communities that are known to occur on the
24 development project site or adjacent properties. If any of these species are
25 observed on the site, include descriptions of the occurrence and any potential
26 impacts to them.

27 f. Description of any fauna using the site. If a biological assessment was prepared
28 for the project, the report may simply be referenced in this mitigation report.

29 i. Description of any animals (including amphibians) using the wetland being
30 affected or its buffer. Especially note evidence of past or present beaver use. In

1 most cases, a list of species likely to use the habitats on the site is sufficient,
2 with brief descriptions of the existing habitats.

3 ii. Include a description of endangered, threatened, sensitive, and candidate
4 animal species that are known to occur in the general areas (distance depends
5 on species) of the development site, as well as observations of such species.
6 Also, include those listed as priority species or species of concern by the
7 Washington Department of Fish and Wildlife.

8 g. Landscape Position and Geomorphology.

9 i. Class of the wetland being affected by the development project. Use the
10 hydrogeomorphic classification (class and subclass) to describe its position in
11 the watershed.

12 ii. Qualitative description of the functions performed by the wetland affected
13 relative to the position in the watershed. This may include its role in attenuating
14 flooding, as a corridor for wildlife between different regions of the watershed,
15 as part of a regional flyway, or in improving water quality regionally.

16 h. Description of Functions Provided.

17 i. Description of the functions provided by the wetland being affected and to
18 what level they are performed. The method used to assess functions varies
19 depending on the scale of the impact (size/type), the complexity of the wetland,
20 etc. The same method must be used for assessing the impact site and the
21 mitigation site, as well as for monitoring.

22 ii. Qualitative or quantitative description of the characteristics that enable the
23 wetland being affected to perform specific functions, depending on the method
24 used.

25 iii. Description of the sampling and assessment methods used.

26 iv. Documentation of the training of professionals assessing the functions.

27 v. List of the references consulted.

28 i. Wetland Category Rating and Buffer Requirements.

29 i. The category of the wetland being affected using the Washington State
30 rating system for Western Washington, as revised.

31 ii. Copies of the original data sheets used to rate the wetland.

1 iii. Size (width) of the undeveloped upland buffer within three hundred feet
2 (one hundred meters) of the wetland being affected by the development
3 project.

4 iv. Qualitative description of the dominant vegetation in the buffer and the
5 physical structure of the plants in it (e.g., deciduous forest, coniferous forest,
6 and prevalence of snags and downed woody debris).

7 v. Maps of the buffer areas and the vegetation types.

8 j. Information on Water Quality, Where Applicable.

9 i. Description of any known or observable water quality problems at the
10 development site and whether they will continue after the development project
11 is completed. Basic water quality parameters that should be considered include
12 dissolved oxygen (DO), pH and alkalinity, temperature, turbidity/suspended
13 solids/sediment accretion, nutrients, fecal coliform, and heavy metals.

14 ii. Assessment of whether the development project is expected to worsen or
15 improve existing water quality conditions.

16 7. Mitigation Approach.

17 a. Mitigation Sequencing Followed.

18 i. Descriptions of the specific steps taken to avoid and minimize impacts to the
19 maximum extent practicable. Larger projects may need to include an
20 alternatives analysis in an appendix.

21 ii. Description of the specific steps to minimize wetland impacts to the site or
22 reduce impacts over time (timing of project, redesign of project, orientation
23 and/or location). Where applicable, note how proposed stormwater treatment
24 facilities may reduce water quality impacts.

25 iii. Discussion of wetland rectification strategies. Where applicable note how
26 temporary impacts, occurring during implementation of the development
27 project, could be rectified through restoration and maintenance activities.

28 iv. Notation of the size and type of compensation being proposed. Include a
29 description of the mitigation ratios and why they are adequate to compensate
30 for the lost or degraded area and functions. A full description of the
31 compensatory mitigation should be provided as described in the following
32 sections.

1 b. Goals and Objectives. Identify the goal or goals of the compensatory mitigation
2 project.

3 c. Mitigation Strategy. Describe in general terms the strategies (actions) that will be
4 used to achieve the goals.

5 8. Proposed Mitigation Site.

6 a. Site Description (Location, Size, Maps).

7 i. Ownership;

8 ii. Total area of mitigation site (acres);

9 iii. Current/past land use. Include, also, a description of the constraints at the
10 mitigation site that could affect the success of the mitigation project, and
11 strategies used to address each constraint.

12 b. Site Selection Rationale. Discuss how the site fits with the environmental needs
13 in the watershed. If watershed or regional planning efforts exist for the area, explain
14 how the selection of the compensation site is consistent with those plans.

15 c. Existing/Baseline Ecological Conditions of the Mitigation Site.

16 i. Summary of Historic and Current On-Site and Nearby Land Uses.

17 (a) Historic land uses and structures on the mitigation site and adjacent
18 properties, if known;

19 (b) Current land uses and structures on the mitigation site;

20 (c) Current land uses and zoning designations of adjacent properties;

21 (d) A local area map showing land uses and zoning designations.

22 ii. Description of Any Known Cultural Resources on the Site. If a separate
23 report on cultural/historic resources was prepared, it may be referenced in the
24 mitigation report.

25 (a) List of structures listed or eligible for historic registers;

26 (b) Brief description of resources having archaeological or cultural
27 significance.

1 iii. Description of the Site in Context of Other Wetlands. Any existing wetland
2 boundaries shall be summarized here, but may reference the delineation
3 report.

4 (a) A topographic base map (scale one inch equals four hundred feet or
5 smaller) outlining the boundaries of the wetlands that are under state,
6 federal, or local jurisdiction;

7 (b) Name of the delineation manual and method used. Include the date
8 field work was performed, field data sheets documenting the data
9 collected on the three criteria (hydrology, vegetation, soils);

10 (c) Provide the total area of wetlands on the mitigation site, identifying
11 the area (acres) of individual wetlands.

12 iv. Description of Other Aquatic Resources on the Mitigation Site and Adjacent
13 Properties.

14 (a) Description of the other aquatic resources (e.g., streams, lakes, tidal
15 waters) on the mitigation site and adjacent properties, noting hydrologic
16 connections among them and with existing wetlands.

17 (b) Include and/or reference a map showing the approximate location of
18 all aquatic resources.

19 (c) Description of any flooding that affects the mitigation site and location
20 of the development within the floodplain, where applicable, indicating on a
21 map whether the project is located within the mapped one-hundred-year
22 floodplain).

23 v. Description of the Water Regime.

24 (a) Description of the source of water to the mitigation site. If several
25 sources are present, estimate the percentage contribution from each.

26 (b) Description of the existing water regimes at the mitigation site (i.e.,
27 rough, qualitative estimate of duration and frequency of inundation and/or
28 saturation).

29 (c) Map of the surface and groundwater flowing into the mitigation area
30 with the directions of water flow indicated.

31 vi. Description of the Soils.

1 (a) Description of the soil characteristics of the mitigation site including
2 soil type and classification, and a description of texture, color, structure,
3 permeability, and organic content. Use soil surveys confirmed by
4 representative soil samples;

5 (b) Soil survey map (indicate source);

6 (c) Map showing soil sampling locations (typically the location of the soil
7 pits used for delineation).

8 vii. Description of the Plant Communities.

9 (a) Qualitative descriptions of the different Cowardin (1979) classes at the
10 mitigation site (include subclass and water regime modifiers). If a forested
11 class is present, also estimate the average age of the canopy species;

12 (b) Estimate the relative abundance of dominant and subdominant plants
13 within each Cowardin class (use information collected during routine
14 delineation unless more detailed data are available);

15 (c) List of the wetland indicatory status of dominant and subdominant
16 species (obligate – OBL, facultative – FAC, facultative wet – FACW);

17 (d) Description of the prevalence and distribution of nonnative and/or
18 invasive species, if any are present;

19 (e) General description of upland plant communities within three
20 hundred thirty feet (one hundred meters) of the mitigation site, if any;

21 (f) List of rare plants and plant communities that are known to occur on
22 the mitigation site or adjacent properties. If any of these species are
23 observed on the site, include descriptions of the occurrence and any
24 potential impacts to them.

25 viii. Description of Any Fauna Using the Site. If a biological assessment was
26 prepared for the project, the report may simply be referenced in this mitigation
27 plan.

28 (a) Description of any animals (including amphibians) using the wetland
29 being affected or its buffers. Especially note evidence of past or present
30 beaver use. In most cases, a list of species likely to use the habitats on the
31 site is sufficient, with brief descriptions of the existing habitats.

1 (b) Include a description of endangered, threatened, sensitive, and
2 candidate animal species that are known to occur in the general areas
3 (distance depends on species) of the development site, as well as
4 observations of such species. Also, include those listed as priority species
5 or species of concern by the Washington Department of Fish and Wildlife.

6 ix. Landscape Position and Geomorphology.

7 (a) Class of any existing wetlands on the mitigation site. Use
8 hydrogeomorphic classification (class and subclass) to describe the
9 position in the watershed;

10 (b) Qualitative description of the functions performed by the mitigation
11 site relative to the position in the watershed. This may include its role in
12 attenuating flooding, as a corridor for wildlife between different regions of
13 the watershed, as part of a regional flyway, or in improving water quality
14 regionally.

15 x. Description of Functions Provided.

16 (a) Description of the functions provided by the wetland being affected
17 and to what level they are performed. The method used to assess
18 functions varies depending on the scale of the impact (size/type), the
19 complexity of the wetland, etc. The same method must be used for
20 assessing the impact site and the mitigation site, as well as for monitoring;

21 (b) Qualitative or quantitative description of the characteristics that
22 enable the wetland being affected to perform specific functions, depending
23 on the method used;

24 (c) Description of the sampling and assessment methods used;

25 (d) Documentation of the training of professionals assessing the
26 functions; and

27 (e) List of the references consulted.

28 xi. Wetland Rating of Any Existing Wetlands, Buffer Requirements.

29 (a) The category of the wetland being affected using the Washington State
30 rating system for Western Washington, as revised;

31 (b) Copies of the original data sheets used to rate the wetland;

1 (c) Size (width) of the undeveloped upland buffer within three hundred
2 thirty feet (one hundred meters) of the mitigation site. Note how much of
3 the existing buffers extend off-site;

4 (d) Qualitative description of the dominant vegetation in the buffer and
5 the physical structure of the plants in it (e.g., deciduous forest, coniferous
6 forest, and prevalence of snags and downed woody debris); and

7 (e) Maps of the buffer areas and the vegetation types.

8 xii. Information on Water Quality, Where Applicable.

9 (a) Description of any known or observable water quality problems at the
10 mitigation site and whether they will continue after the mitigation project is
11 completed. Basic water quality parameters that should be considered
12 include dissolved oxygen (DO), pH and alkalinity, temperature,
13 turbidity/suspended solids/sediment accretion, nutrients, fecal coliform,
14 and heavy metals.

15 (b) Assessment of whether the mitigation project is expected to worsen
16 or improve existing water quality conditions.

17 d. Site constraints.

18 9. Preliminary Site Plan.

19 a. A qualitative description of the water regime and of how adequate hydrology will
20 be provided to support a wetland over the long term.

21 b. Discussion of how project was designed to provide the proposed functions,
22 including description of the hydrologic data that will support the proposal. Provide a
23 rationale for each proposed function and describe the design features that will
24 contribute to providing the function.

25 c. Schematic Drawings.

26 i. Change in topography;

27 ii. Hydrologic (water control) structures;

28 iii. Soils;

29 iv. Vegetation distributions;

- 1 v. Habitat attributes (structures) and their location;
- 2 vi. Existing and proposed buffers.
- 3 d. Section drawings showing relationship of topography to water regime and
- 4 vegetation.
- 5 10. Final Site Plan/Design.
- 6 a. Site Survey and Topography.
- 7 i. Site surveys are needed when the mitigation project includes changes to
- 8 ground elevations. If no changes to grade are proposed, then a simpler map of
- 9 the site will be sufficient showing property and wetland boundaries, landmarks,
- 10 scale, site features, and other existing conditions;
- 11 ii. Orientation and scale (north arrow; typically scales are one inch equals
- 12 twenty-five or fifty feet);
- 13 iii. Existing and proposed elevation contours. Contours at one-foot intervals
- 14 are typically sufficient for most mitigation reports. Contours at six-inch intervals
- 15 may be desirable in certain cases where the seasonal fluctuation of water levels
- 16 is low or in specific areas on the mitigation site where it is critical to have a high
- 17 level of accuracy;
- 18 iv. Spot elevations for low points, high points and structures (culverts,
- 19 hydraulic controls, utilities, and roads);
- 20 v. Property boundaries;
- 21 vi. On-site wetland boundaries (including all wetlands existing and after
- 22 mitigation);
- 23 vii. Survey benchmarks;
- 24 viii. Location and elevation of soil borings or test pits and water level sampling
- 25 devices;
- 26 ix. Location of soils to be stockpiled, if any;
- 27 x. Description of methods of erosion control and bank stabilization, if
- 28 applicable;
- 29 xi. Buffer areas proposed for the mitigation site and their boundaries.

- 1 b. Water regime including:
 - 2 i. Description of the proposed frequency and duration of flooding, inundation,
3 or soil saturation;
 - 4 ii. Description of the proposed groundwater and surface water sources and
5 characteristics;
 - 6 iii. Description of the elevation of the water table and dates when measured
7 (note if table is perched);
 - 8 iv. Engineering drawings of any proposed water control structures.
- 9 c. Soil Amendments.
 - 10 i. Soil Logs from an On-Site Evaluation. Depending on proposed depth of
11 grading, soil information may come from hand-dug shallow pits or from deeper
12 samples that are typically obtained with small drilling rigs. At a minimum, the
13 shallow soil profile should be described even if no changes in site elevations are
14 proposed.
 - 15 ii. Description of how the soil characteristics will be affected by the mitigation
16 activities.
- 17 d. Landscape Plans. For most projects, planting plans should be prepared by a
18 landscape architect with assistance from a wetland or plant ecologist. In some cases
19 where very simple planting plans are proposed for small areas, the level of expertise
20 provided by a landscape architect may not be needed. The list below includes the
21 minimum information needed for planting plans.
 - 22 i. Section drawing of proposed plant distribution, density and spacing, in
23 relation to topography and water levels. The projected average water level
24 during winter wet season, early growing season, and late summer dry season
25 should be displayed;
 - 26 ii. List of plant materials (common and Latin names, sizes, sources, quantity,
27 etc.);
 - 28 iii. Location of existing or proposed upland buffers;
 - 29 iv. Description of the methods that will be used to control invasive and exotic
30 plants if they exist in the vicinity;

- 1 v. A plan for irrigating the plants until they are established, including method,
2 frequency, and amount of water;
- 3 vi. Erosion control;
- 4 vii. Map of the location of habitat structures or habitat features;
- 5 viii. Location of upland buffers;
- 6 ix. Description of the soil amendments, including use and sources of mulch.
- 7 e. Construction specifications.



8 11. Monitoring Plan. A monitoring plan describes the methods used to collect and
9 analyze data needed to show that performance standards are being met. They are also
10 used to track environmental changes at mitigation sites throughout the monitoring
11 period. Monitoring plans will vary depending on mitigation objectives and performance
12 standards, but all must be designed to assess the quantitative or qualitative performance
13 standards. The methods used for monitoring specific variables generally need to be the
14 same as those used in establishing baseline data at the wetland affected by the
15 development project. Monitoring plans will typically include the elements described
16 below.



- 17 a. Variables to be measured (plant survival, canopy cover, plant diversity, water
18 levels and duration or inundation/saturation);
- 19 b. Sampling methods for each variable;
- 20 c. A map of the sampling locations for each variable or a description of the
21 methods that will be used to determine sampling locations for each monitoring
22 event. Permanent sampling locations may be the best choice for some variables, but
23 for others, such as percent cover of vegetation, sampling locations may be varied
24 through random selection or other methods for each monitoring event. The map
25 should include clearly identifiable markers on the ground to act as reference points
26 for orientation. These may include roads, benchmarks, and permanent structures;
- 27 d. Laboratory methods to be used, if applicable;
- 28 e. Provide a timetable for reporting monitoring results to the agencies. It is
29 preferred to tie the specific dates to the start of construction.

30 12. Site Protection. The mitigation area and any associated buffer shall be protected by
31 a legal mechanism such as a critical area tract or a conservation easement. The
32 department may approve another legal and administrative mechanism if it is determined

1 to be adequate to protect the site. The following shall be required to demonstrate
2 compliance and ensure adequate protection of the wetland functions and values:

- 3 a. Physical site protection of the remaining wetland boundaries and buffer.
- 4 b. Proof of establishment of a covenant or other approved legal mechanism for the
5 remaining wetlands and buffers on the development project site (if any) and a legal
6 site protection mechanism for the compensatory mitigation areas. Legal protection
7 (deed restriction, conservation easement). Provide copies.

8 ~~c. Buffers.~~

9 13. Maintenance and Contingency Plans. The need for activities such as inspecting
10 irrigation systems, replacing plants, weeding, preventing or managing herbivory,
11 removing trash, and controlling erosion (and the funding to conduct them) should be
12 anticipated based on the site characteristics, level of public access to the mitigation site,
13 and typical uses of adjacent areas. Frequency of the activities may change through the
14 monitoring period, so maintenance plans should be written with room for flexibility.
15 Contingency plans contain corrective measures that will be taken if monitoring indicates
16 that performance standards are not being met.

17 a. Maintenance schedule for each activity. Include a description of and reason for
18 each maintenance activity planned.

19 b. Contingency Plan.

20 i. Description of initiating procedures. If a performance standard is not met
21 within the time specified in the mitigation plan the permittee will be required to
22 complete the activities in the following list:

- 23 (a) An analysis of the causes of failure;
- 24 (b) Description of the proposed corrective actions;
- 25 (c) Time frame for implementing these actions.

26 ii. Description of a Contingency Fund. A contingency fund should be
27 established for use if any corrective actions are necessary. The description
28 should include what funds will be available for planning, implementing and
29 monitoring any contingency procedures that may be required to achieve the
30 mitigation goals. Generally, the fund amount should equal twenty percent of the
31 total cost of mitigation associated with the project.

32 iii. Responsible parties.

- 1 14. Implementation Schedule.
- 2 a. Construction sequence and time schedule for project start, grading, water
3 diversions, plantings, completion, etc. The applicant must work with the department
4 to develop an agreed construction schedule for the mitigation project. Delays in
5 implementing the construction of the mitigation site may result in an increase in the
6 mitigation required and enforcement actions.
- 7 b. Completion. Acknowledgment that the wetland specialist will submit an as-built
8 report to the department for review and acceptance.

9 15. Permit Conditions. Any compensation project prepared pursuant to this section and
10 approved by the department shall become part of the application for the permit. The
11 department will require an additional growing season year for approval of the mitigation
12 plan unless the applicant requests an inspection for final monitoring year during the final
13 monitoring year assessment.

14 16. Performance Bonds and Demonstration of Competence. A demonstration of
15 financial resources, administrative, supervisory, and technical competence and scientific
16 expertise of sufficient standing to successfully execute the compensation project shall be
17 provided. A compensation project manager shall be named, and the qualifications of each
18 team member involved in preparing the mitigation plan and implementing and
19 supervising the project shall be provided, including educational background and areas of
20 expertise, training and experience with comparable projects. A performance bond,
21 assignment of savings, or other like security will be required by the department in an
22 amount necessary to provide for future site monitoring and possible corrective action
23 required for compensatory mitigation projects. Typically, this amount is one and one-half
24 times the estimated cost of mitigation. Once the project is completed and a maintenance
25 bond is established, the performance bond will be released. The maintenance bond, as
26 determined by the wetland specialist, will be released upon success of the project, as
27 determined by the metrics in the mitigation plan, and no earlier than five years and up to
28 ten years after completion of the mitigation project unless mitigation success is
29 demonstrated through two consecutive monitoring reports. If the approved mitigation is
30 not completed or fails to meet its success standards, the property owner must agree to a
31 property access release form, with forfeiture of funds after the specified monitoring
32 period.

33 17. Waiver. The department may waive portions of a wetland mitigation report if there is
34 adequate information available on the site to determine its impacts and appropriate
35 measures.

36 (Ord. 617 (2022) § 36, 2022; Ord. 545 (2017) § 5 (Appx. (part)), 2017; Ord. 351 (2005) § 36 (part), 2005)

37 | **19.700.720 Habitat management plan (HMP).**

1 A. A HMP is a site investigation report to evaluate the potential presence or absence of a
2 regulated fish or wildlife species or habitat affecting a subject property and proposed
3 development. This report shall identify how development impacts to fish and wildlife habitat
4 from a proposed project will be mitigated. WDFW Priority Habitat and Species (PHS)
5 Management Recommendations, dated May 1991, or as amended, and any applicable species
6 and/or habitat-specific management regulations approved by WDFW ~~all applicable volumes and~~
7 ~~revisions, or the National Bald Eagle Management Guidelines~~ may serve as guidance for this
8 report.

9 B. The HMP shall contain a map prepared at an easily readable scale, showing:

- 10 1. The location of the proposed development site;
- 11 2. The relationship of the site to surrounding topographic, water, and cultural features;
- 12 3. Proposed building locations and arrangements;

13 4. All fish and wildlife habitat conservation areas, inclusive of any standard or proposed
14 buffer widths and building setbacks;

15 5. The locations of any significant trees, per 19.200 and 19.300;

16 6.4. A legend that includes a complete legal description, acreage of the parcel, scale,
17 north arrow, and date of map revision; and

18 7.5. Identification of any species of local importance, priority species, or endangered,
19 threatened, sensitive, or candidate species that have a primary association with habitat
20 on or adjacent to the project area, and assessment of potential project impacts to the use
21 of the site by the species. A WDFW PHS database search that is no older than one year
22 from the project submittal.

23 C. The habitat management plan shall also contain a report which describes:

- 24 1. The nature and intensity of the proposed development;
- 25 2. An analysis of the existing species, habitats, and ecological quality, functions and
26 values. This includes but is not limited to a detailed description of vegetation on
27 and adjacent to the project area and its associated buffer, and a discussion of any federal,
28 state, or local special management recommendations, including
29 Washington Department of Fish and Wildlife habitat management recommendations, that
30 have been developed for species or habitats located on or adjacent to the project area;
31 the effect of the proposed development, activity or land use change upon the wildlife
32 species and habitat identified for protection; and

1 3. An analysis of the effect of the proposed development, activity or land use change
2 upon the existing species, habitats, and ecological functions and values wildlife species
3 and habitat identified for protection; and

4 4. A discussion on how the applicant proposes to avoid, minimize and mitigate any
5 adverse impacts to fish and wildlife habitats created by the proposed development. (See
6 Sections 19.700.710 and 19.700.715, wetland report/wetland mitigation plan
7 requirements.). In all cases, mitigation sequencing shall be demonstrated per Chapter
8 19.100.155.D. When compensatory mitigation is necessary, a mitigation plan shall be
9 provided that ensures no net loss of ecological functions and must meet the following
10 requirements:

11 a. Mitigation sites must be located to preserve or achieve contiguous wildlife
12 habitat corridors to minimize the isolating effects of development on habitat
13 areas;

14 b. The mitigation of aquatic habitat shall be located within the same aquatic
15 ecosystem as the area disturbed; and

16 c. The mitigation plan shall include standards for ongoing management practices
17 that will protect habitat after the project site has been developed, including
18 consistency with 19.300.315(A)(7).

19 5. When necessary per this Title, the HMP shall also include:

20 a. An analysis of how the remaining buffer will be enhanced to meet full buffer
21 function. Any functions that are diminished or lost will be required to be
22 mitigated with in-kind enhancements to the greatest extent feasible. Out of kind
23 mitigation will be considered on a case-by-case basis.

24 b. An analysis based on site specific conditions and project features that greater
25 protection than standard buffers are necessary to preserve riparian functions
26 and protected species.

27 c. Discussion of identified significant trees to be retained per 19.300.315(A)(4)(d).

28 ~~D.—Examples of mitigation measures to be included in the HMP report, include, but are not~~
29 ~~limited to:~~

30 ~~1.—Establishment of Buffer Zones. When applicable, the order of sequence for buffer~~
31 ~~reductions shall be as follows:~~

32 ~~a.—Reduction of building setback;~~

- ~~b.—Use of buffer averaging maintaining one hundred percent of the buffer area under the standard buffer requirement;~~
- ~~c.—Reduction of the overall buffer area by no more than twenty-five percent of the area required under the standard buffer requirement;~~
- ~~d.—Enhancement of existing degraded buffer area and replanting of the disturbed buffer area;~~
- ~~e.—The use of alternative on-site wastewater systems in order to minimize site clearing;~~
- ~~f.—Infiltration of storm water where soils permit; and~~
- ~~g.—Retention of existing native vegetation on other portions of the site in order to offset habitat loss from buffer reduction;~~

- ~~2.—Preservation of native plants and trees that are essential to maintaining habitat function, including connection to existing wildlife corridors;~~
- ~~3.—Limitation of access to habitat areas;~~
- ~~4.—Seasonal restriction of construction activities; and~~
- ~~5.—Establishing phased development requirements and/or a timetable for periodic review of the plan.~~

~~6.E.~~ A HMP shall be prepared by a fish or wildlife biologist, as defined at Sections [19.150.320](#) and [19.150.690](#). For proposed single-family dwelling construction, the department may complete the plan. Fees may be collected for this plan as specified in Title [21](#).

(Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 36 (part), 2005)

19.700.725 Geological assessments.

Whenever development is proposed in a potentially geologically hazardous area or shoreline setback as defined in Chapters [19.300](#) and [19.400](#), or when the department determines that additional soils and slope analysis is appropriate on a particular site, the applicant is required to submit a geological assessment. This assessment may be in the form of a letter, a geological report, or geotechnical report, as determined in Chapter [19.400](#). These assessments evaluate the surface and subsurface soil conditions on the site.

A. Qualifications.

1 1. Geotechnical reports shall be prepared by a geotechnical engineer (defined at
2 Section [19.150.365](#)).

3 2. Geological reports or letters may be prepared by a licensed geologist
4 (Section [19.150.360](#)) or geotechnical engineer (Section [19.150.365](#)).

5 B. General Provisions. Report recommendations for earthwork, clearing or siting structures in
6 geologically hazardous areas shall be based on existing site conditions rather than measures
7 that have not yet been successfully approved, designed, or constructed (e.g., slope
8 recontouring, slope retaining walls, vegetation improvements, bulkheads, etc.). Shoreline
9 bulkheads and retaining walls may only be utilized as an engineering solution where it can be
10 demonstrated that:

11 1. An existing residential structure or other permitted existing public or private
12 structures or public facilities such as roads or highways cannot be safely maintained
13 without such measures;

14 2. Other nonstructural methods of beach stabilization have been considered and
15 determined infeasible; and

16 3. The resulting stabilization structure is the minimum necessary to provide stability for
17 the existing structure and appurtenances.

18 Minor repair activities on existing permitted structures (i.e., those that do not involve design
19 modifications, changes in structure location, and/or demolition or abandonment of failed
20 structure and replacement with new structure) are not subject to the following project
21 submittal standards.

22 C. Geological Report Submittal Standards. A geological report is required for site development
23 proposals that involve development activity or the installation of structures within a geologically
24 hazardous area or shoreline setback, or as otherwise required pursuant to
25 Chapters [19.300](#) and [19.400](#), but do not involve or require engineering design
26 recommendations. The following minimum information is required:

27 1. Site information regarding the Kitsap County shoreline environment designation and
28 critical areas designations that affect site features;

29 2. Description of surface and subsurface conditions, including ground materials,
30 vegetation, surface drainage, groundwater, and a preliminary geologic hazard assessment
31 which includes the locations of structures and the identification of the slope and/or
32 coastal processes occurring at the site and factors that contribute to them;

33 3. Review of available site information, literature, and mapping;

- 1 4. Detailed description of slope and other topographic features; ~~and~~
- 2 5. A site plan depicting top or toe of slope and any required buffers and/or setbacks;
- 3 and

4 6.5. Conceptual siting of structures and general recommendations, which include
5 methods and practices that avoid and/or reduce slope and shore impacts. Minimum
6 recommendations should include upland and slope drainage control, groundwater
7 control, site vegetation management, and erosion control.

8 D. Geotechnical Report Submittal Standards. A geotechnical report is required when the
9 department or a geological report determines that a site development proposal requires
10 additional site information such as engineering design recommendations, slope stability
11 analysis, subsurface exploration and testing, coastal process analyses, or construction
12 recommendations. Depending on the level of activity proposed, the report will either be a more
13 limited geotechnical slope evaluation report or a full geotechnical design investigation report as
14 described below.

15 1. Geotechnical Slope Evaluation Report. A geotechnical slope evaluation report is
16 required when slope stability analyses are confined to addressing only existing surface
17 and/or drainage conditions, including the relationship of natural and constructed slope
18 features to proposed changes in environmental conditions such as drainage, vegetation
19 removal and slope geometry. The following minimum information is required:

- 20 a. All the information required under subsection (C) of this section (geological
21 report);
- 22 b. Subsurface data, exploration logs, and testing data, when required by the
23 geotechnical engineer;
- 24 c. Estimated (or surveyed) site plan with ground surface profiles and typical cross-
25 sections;
- 26 d. Relative location of ordinary high water (OHW) on the surface profile and cross-
27 sections, which includes mean higher high water (MHHW) for the site location, where
28 applicable;
- 29 e. Soil strength parameters;
- 30 f. Stability analysis of existing site;
- 31 g. Analysis of the relationship of vegetation and slope stability; and
- 32 h. Conceptual site development plans and cross-sections.

1 2. Geotechnical Design Investigation Report. A geotechnical design investigation report
2 is required for site development activities that propose design and construction measures
3 at the slope crest, face and/or toe. If a designed structure does not impact slope stability
4 or coastal processes, the report will not be required to perform all items listed under this
5 section, as long as each item is addressed and the report details why a particular item
6 does not apply. The report shall include all items considered necessary by the engineer to
7 fully address the engineering design requirements of the site. The following minimum
8 information is required:

9 a. All the information required under subsection (D)(1) of this section (Geotechnical
10 Slope Evaluation Report);

11 b. Geotechnical requirements and measures to reduce risks;

12 c. Geotechnical criteria used for any designs including all critical dimensions, lateral
13 earth pressures, soil bearing pressures, location and limits of structures on or near
14 the slope, maximum constructed slope angles, minimum soil reinforcement
15 embedment, soil compaction requirements, and structure heights;

16 d. Temporary construction slope stability recommendations and analysis of
17 proposed final site stability measures;

18 e. Required construction specifications and construction monitoring procedures;

19 f. Revegetation and surface and groundwater management requirements;

20 g. Evaluation of erosion potential, recommendations for erosion avoidance and any
21 proposed mitigation measures;

22 h. Detailed tabulation of all basic geotechnical engineering test results pertinent to
23 design and construction, and when required for clarification, detailed examples of
24 tests conducted for the project; and

25 i. Information outlined in the geotechnical design investigation report site
26 evaluation checklist (see subsection (F) of this section).

27 E. Additional Requirements for Sites in Geologically Hazardous Areas. When a project site is
28 located within a landslide-prone geologically hazardous area, as classified in
29 Section [19.400.415](#), the following additional project submittal requirements shall apply:

30 1. Erosion Control Information. An evaluation of the erosion potential on the site during
31 and after construction is required. The evaluation shall include recommendations for
32 mitigation, including retention of vegetative buffers and a revegetation program. The
33 geotechnical engineer shall provide a statement identifying buffer areas at the top or toe

1 of a slope based on geotechnical site constraints and the impacts of proposed
2 construction methods on the erosion potential of the slope.

3 2. Seismic Information. The geotechnical engineer shall submit a statement that the
4 design criteria consider the one-in-one-hundred-year seismic event (an earthquake
5 ground motion that has a forty percent probability of exceedance in fifty years).
6 Calculations of soil bearing capacity, general soil stability, and wall lateral earth pressures
7 shall be adjusted to reflect a one-in-one-hundred-year seismic event and the structural
8 plans for the project shall be reviewed by the geotechnical engineer for consistency with
9 these design criteria.



10 Analysis for the one-in-one-hundred-year seismic event shall be based on a near-
11 crustal event having an assumed magnitude of 6.5 and occurring directly below the
12 site. Based on regional studies performed by others, the department will allow the
13 use of the following minimum general values of horizontal peak ground
14 accelerations for this event:

15 a = 0.2g for fill, alluvial soils

16 a = 0.17g for till, firm glaciated soils

17 a = 0.15g for rock.

18 The appropriateness of the above accelerations shall be confirmed by the
19 geotechnical engineer based on the actual site characteristics. Reduction in the
20 above values may be considered when supported by the appropriate analytical
21 evidence. Slope stability, lateral pressures, and liquefaction of the site shall be
22 assessed by using subsurface soil, rock and groundwater conditions, as well as the
23 seismic parameters discussed above.



24 3. Recommendations on Relative Site Stability. The geotechnical engineer shall make
25 recommendations as to which portions of the site are the least prone to instability and
26 the preferred location of the structure. The limits of any area proposed for grading activity
27 shall be identified.

28 4. Construction Season Limitation. In general, no excavation will be permitted in
29 landslide-prone geologically hazardous areas during the typically wet winter months.
30 When excavation is proposed, including the maintenance of open temporary slopes,
31 between October 1st and April 30th, technical analysis shall be provided to ensure that no
32 environmental harm, threat to adjacent properties, or safety issues would result. In
33 addition, recommendations for temporary erosion control and shoring/mitigating
34 measures shall be provided. The technical analysis shall consist of plans showing
35 mitigation techniques and a technical memorandum from the geotechnical engineer.

1 5. Revisions to Geotechnical Report. Further recommendations shall be provided by the
2 geotechnical engineer should there be additions or exceptions to the original
3 recommendations based on the plans, site conditions, or other supporting data. If the
4 geotechnical engineer who revises the plans and specifications is not the same engineer
5 who prepared the geotechnical report, the new engineer shall, in a letter to the
6 department, express his or her agreement or disagreement with the recommendations in
7 the geotechnical report and state whether the plans and specifications conform to his or
8 her recommendations.

9 6. Plan and Specification Review. The geotechnical engineer shall submit a statement
10 that, in his or her judgment, the plans and specifications (if prepared by others) conform
11 to the recommendations in the geotechnical report and that all portions of the site which
12 are disturbed or impacted by the proposed development have appropriate measures or
13 specifications that permit construction to occur while addressing slope stability so that
14 the work does not create additional risk. The statement shall also indicate whether or not
15 a relative gain in slope stability will be achieved after construction is complete.

16 7. Construction Inspection. A final inspection report shall be provided by the
17 geotechnical engineer stating that construction has or has not implemented the design
18 recommendations of the geotechnical report, and evaluating any deviation from the
19 design recommendations.

20 F. Geotechnical Design Investigation Report – Site Evaluation Checklist. The following are
21 general report guidelines for geotechnical design investigation reports. The following guidelines
22 are not intended to be all-inclusive. It is the responsibility of the geotechnical engineer to
23 address all factors which in their opinion are relevant to the site. The checklist information shall
24 be included as part of the geotechnical design investigation report. All items listed below must
25 be addressed in the report. Information shall be provided for those items which are not
26 relevant to a given site to demonstrate why the items are not applicable.

27 1. Project information:

- 28 a. Site owner name;
- 29 b. Project proponent name;
- 30 c. Shoreline environment designation (where applicable); and
- 31 d. Critical areas ordinance (CAO) designations affecting site features.

32 2. Project description:

- 33 a. Description of proposed structures, site improvements, and adverse impact
34 avoidance and reduction methods.

1 b. Location and total area of the construction zone.

2 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 36 (part), 2005)

3 | **19.700.730 Hydrogeological report.**

4 The report shall address the impact the proposed land use will have on both the quality and
5 quantity of the water transmitted to the aquifer.

6 A. The report shall be submitted to the department and shall address, at a minimum, the
7 following criteria:



- 8 1. Surficial soil type and geologic setting;
- 9 2. Location and identification of wells within one thousand feet of the site;
- 10 3. Location and identification of surface water bodies and springs within one thousand
11 feet of the site with recharge potential;
- 12 4. Description of underlying aquifers and aquitards, including water level, gradients and
13 flow direction;
- 14 5. Available surface water and groundwater quality data;
- 15 6. Effects of the proposed development on water quality;
- 16 7. Sampling schedules required to assure water quality;
- 17 8. Discussion of the effects of the proposed development on the groundwater resource;
- 18 9. Recommendations on appropriate BMPs (best management practices) or mitigation
19 to assure no significant degradation of groundwater quality;
- 20 10. Other information as required by Kitsap public health; and
- 21 11. The report shall also address the types of pesticides, herbicides and fertilizers that
22 can safely be used for the care of landscaping proposed by the applicant.

23 B. The hydrogeologic report shall be prepared by a professional geologist/hydrologist or by a
24 soil scientist with a strong background in geology (see Section [19.150.410](#)).

25 C. Applications for development or operations with underground storage of petroleum
26 products will be processed using the appropriate procedure as specified in existing Kitsap
27 County ordinances.

1 D. Analysis for a specific parcel(s), using the criteria outlined below, will be employed to
2 confirm if the soils present require a recharge area designation. Data collection will include, at a
3 minimum, six soil logs to a depth of ten feet (or to a depth four feet below the lowest proposed
4 excavation point whichever is greater) for each acre in the parcel(s) being evaluated. At least
5 one well, two hundred feet or greater in depth with an adequate drilling report, must be
6 available within one mile. The associated data shall be analyzed and included in the
7 hydrogeologic report to determine the presence of highly permeable soils with the recharge
8 area designation.

9 For development proposals within aquifer recharge areas of concern, the hydrogeological
10 report may be based on a quarter-quarter section basis where the number of wells within a
11 half-mile radius is thirty-six or more. To facilitate computer analysis, the evaluation may be
12 done on a quarter-quarter section basis using the quarter-quarter section in which a parcel of
13 interest is located and all the surrounding quarter-quarter sections, in place of the half-mile
14 circle.

15

DRAFT

**Chapter 19.800
APPENDICES**

The purpose of the appendices is to provide supporting documentation to assist in the implementation of the ordinance codified in this title.

Contents:

- ~~Appendix A—Washington State Wetlands Rating System Categories.~~
- Appendix **BA** Washington State Department of Natural Resources Stream Typing System.
- Appendix **CB** Kitsap County’s GIS Database of Critical Areas Information.
- Appendix **DC** Site Development Figures.
- Appendix **ED** Kitsap County Geologically Hazardous Area and Buffer Notice.
- Appendix **FE** Critical Area Decision Types.
- Appendix **GF** Checklist and Sample Outline for a Delineation Report.
- Appendix **HG** Mitigation Plan Checklist.

~~Appendix A—Washington State Wetlands Rating System Categories (See Section 19.200.210)~~

~~This system utilizes a four-tier process. The following text includes an additional categorization system for wetlands.~~

~~A.—Category I Wetlands are:~~

~~1.—Wetlands that 1) represent a unique or rare wetland type; or 2) are more sensitive to disturbance than most wetlands; or 3) are relatively undisturbed and contain ecological attributes that are impossible to replace within a human lifetime; or 4) provide a high level of functions.~~

~~2.—Wetlands with high quality native or regionally rare wetland communities with irreplaceable ecological functions including, but not limited to, sphagnum bogs and fens, estuarine wetlands, mature forested wetlands, or wetlands which qualify for inclusion as a Wetland of High Conservation Value.~~

~~3.—Wetlands scoring 23 points or more (out of 27) on the questions related to functions in the *Washington State*, revised 2014, or as hereafter amended.~~

~~B.—Category II Wetlands are:~~

~~1.—Wetlands that are difficult, though not impossible, to replace, and provide high levels of some functions.~~

1 ~~2.—Wetlands which are disturbed and may be estuarine and interdunal greater than 1~~
2 ~~acre.~~

3 ~~3.—Wetlands scoring between 22 – 22 points (out of 27) on the questions related to~~
4 ~~functions in the *Washington State Wetland Rating System for Western Washington*, revised~~
5 ~~2014, or as hereafter amended.~~

6 ~~C.—Category III Wetlands are:~~

7 ~~1.—Wetlands that are 1) wetlands with a moderate level of functions (scores between 16 –~~
8 ~~19 points) and 2) interdunal wetlands between 0.1 and 1 acre in size.~~

9 ~~2.—Wetlands scoring between 16 – 19 points and have generally been disturbed in some~~
10 ~~ways, and are often less diverse or more isolated from other natural resources in the~~
11 ~~landscape than Category II wetlands.~~

12 ~~D.—Category IV Wetlands are:~~

13 ~~1.—Wetland with the lowest levels of function (scores less than 16 points) and are often~~
14 ~~heavily disturbed.~~

15 ~~2.—Wetlands that may provide some important functions and have a high probability for~~
16 ~~successful replacement and/or improvement.~~

17 ~~(Ord. 545 (2017) § 5 (Appx. (part)), 2017; Ord. 351 (2005) § 37 (part), 2005)~~

18 **Appendix B A- Washington State Department of Natural Resources Stream Typing**
19 **System**

Water Type Conversion Table

Permanent Water Typing	Previous Water Typing
Type S	Type 1
Type F	type 2 and 3
Type Np	Type 4
Type Ns	Type 5

20 A. **“Type S Streams”** are those surface waters which meet the criteria of the Washington
21 Department of Natural Resources, WAC [222-16-030](#)(1) as now or hereafter amended, as a Type
22 S Water and are inventoried as “Shorelines of the State” under the Shoreline Management
23 Master Program for Kitsap County, pursuant to RCW Chapter [90.58](#). Type S waters contain
24 salmonid fish habitat.

1 B. **“Type F Streams”** are those surface waters, which meet the criteria of the Washington
 2 Department of Natural Resources, WAC [222-16-030](#)(2) as now or hereafter amended, as Type F
 3 Water. Type F streams contain habitat for fish.

4 C. **“Type Np Streams”** are those surface waters, which meet the criteria of the Washington
 5 Department of Natural Resources, WAC [222-16-030](#)(3) as now or hereafter amended, as Type
 6 Np Water. Type Np waters do not contain fish habitat.

7 D. **“Type Ns Streams”** are those surface waters, which meet the criteria of the Washington
 8 Department of Natural Resources, WAC [222-16-030](#)(4) as now or hereafter amended, as a Type
 9 Ns Water. These streams are areas of perennial or intermittent seepage, ponds, and drainage
 10 ways having short periods of spring or storm runoff. Type Ns waters do not contain fish.

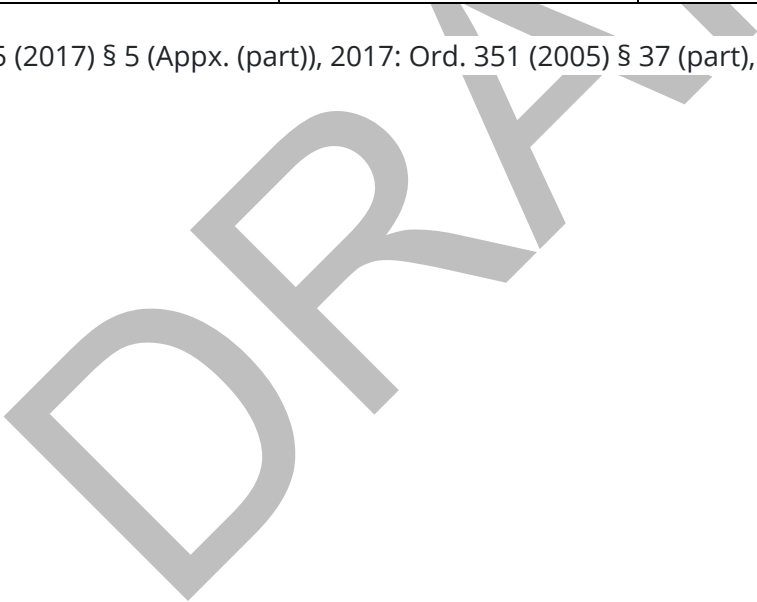
11 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 36 (part), 2005)

12 | **Appendix C B- Kitsap County’s GIS Database of Critical Areas Information**

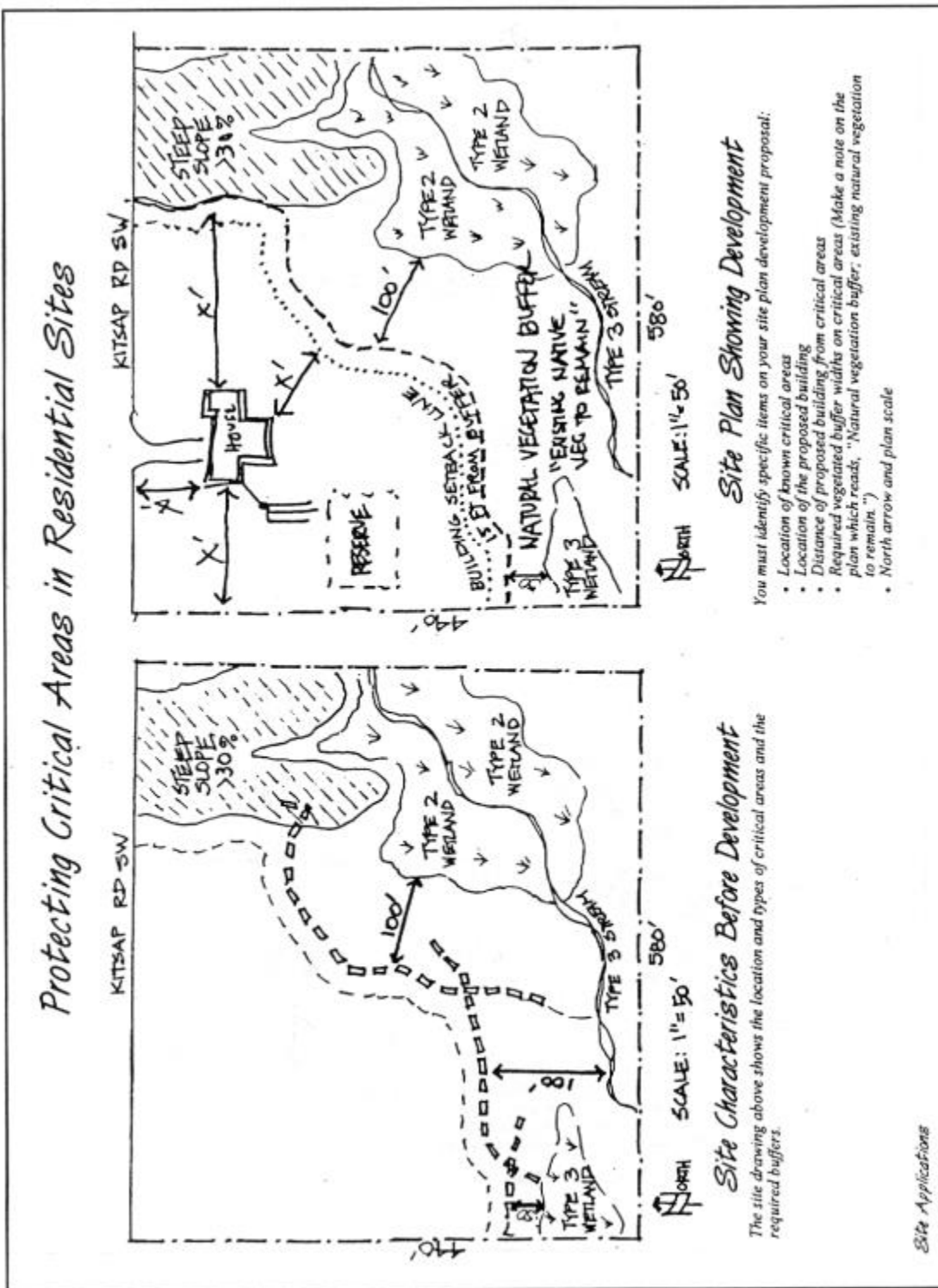
CRITICAL AREA	GIS DATA	INFORMATION SOURCE
Wetlands	National Wetlands Inventory	U.S. Fish and Wildlife Service
	Soil Survey of Kitsap County	U.S. Dept. of Agriculture — Natural Resource Conservation Service
Fish And Wildlife Habitat Conservation Areas	National Wetlands Inventory Information System Database	U.S. Fish and Wildlife Service
	Priority Species Habitat Database Washington Rivers	WA. Dept. of Fish and Wildlife
	Waters of Washington State	WA. Dept. of Natural Resources
	Washington Coastal Zone Atlas	WA Dept. of Ecology
	Stream Typing of Select WRIA 15 Watersheds	Wild Fish Conservancy
Frequently Flooded Areas	Flood Insurance Rate Map	Federal Emergency Management Agency
Geologically Hazardous Areas	Washington Coastal Zone Atlas	WA Dept. of Ecology

CRITICAL AREA	GIS DATA	INFORMATION SOURCE
	Soil Survey of Kitsap County Quaternary Geology and Stratigraphy of Kitsap County	U.S. Dept. of Agriculture — Natural Resource Conservation Service Jerald Deeter, 1979
	Light Distancing and Radar (LiDAR) Mapping	Puget Sound LiDAR Consortium
	Geologically Hazardous Areas Map Update	Kitsap County (GRI Consulting)
Aquifers	Critical Aquifer Recharge Areas Aquifer Recharge Areas of Concern	Kitsap Public Utilities District (PUD) #1 Kitsap PUD #1
	Principal Aquifers	Kitsap PUD #1
	Soil Survey of Kitsap County	U.S. Dept. of Agriculture — Natural Resource Conservation Service

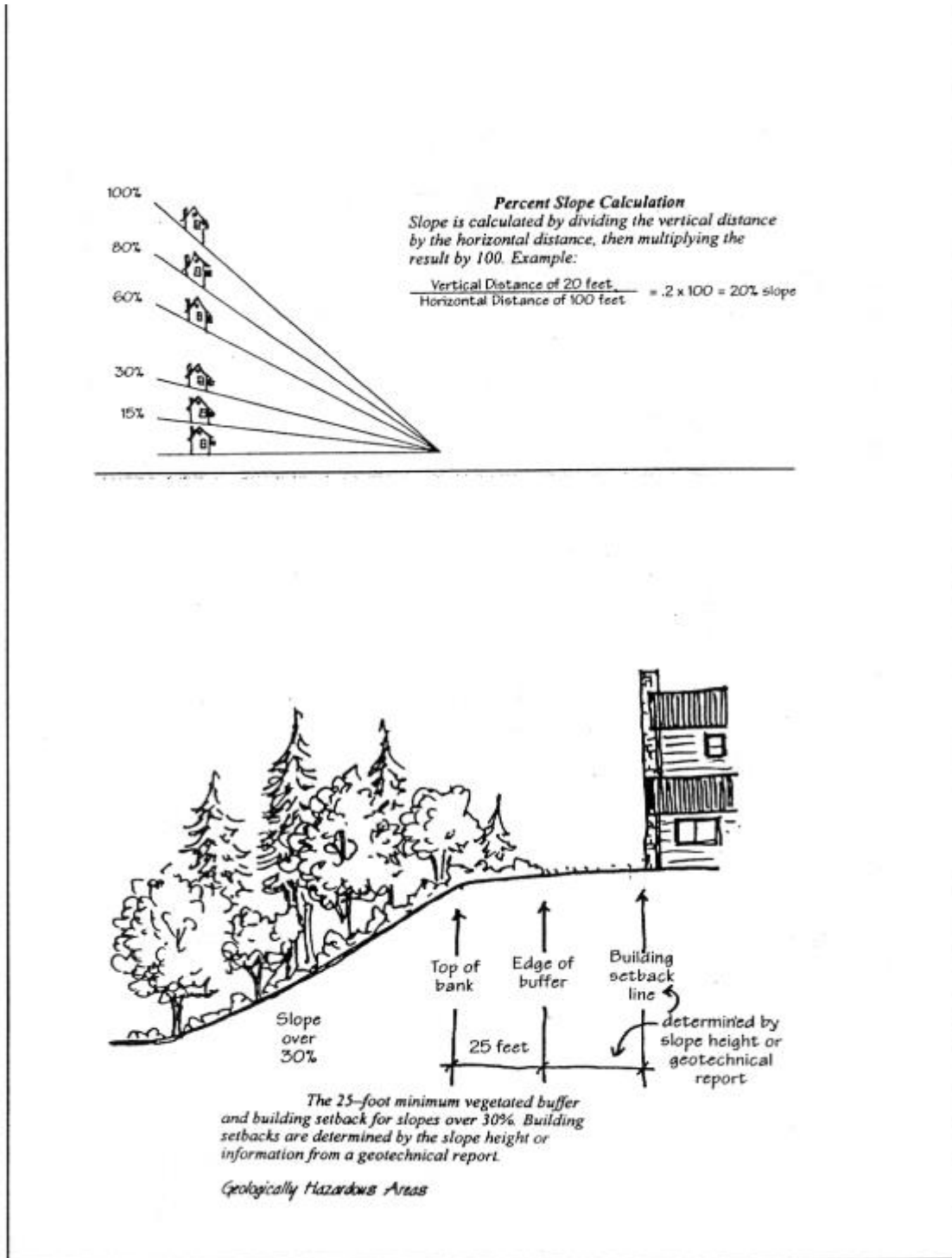
1 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 37 (part), 2005)



1 Appendix DC - Site Development Figures



2



1

2 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 37 (part), 2005)

3 | **Appendix ED - Kitsap County Geologically hazardous area and Buffer Notice**

1 **When recorded, Return to:**

2 **Kitsap County Department of**
3 **Community Development**
4 **MS-36**

5 **Kitsap County Geologically Hazardous Area Notice**

6 Tax Account # Parcel Number

7 ABBREVIATED LEGAL DESCRIPTION: Quarter, quarter, section, township, range; or Plat name, lot
8 and/or block number; or Short plan or large lot name or number, lot number and Auditor's file
9 number

10 Current Property Owner: Legal Tax Payer Name

11 NOTICE IS HEREBY GIVEN that the above identified property has been found to contain a
12 geologically hazardous area as defined by the Kitsap County Department of Community
13 Development's Critical Area Ordinance. Abstract or description of the specific types of risks
14 identified in the geotechnical report. Information regarding the geologically hazardous area, the
15 associated geotechnical report(s), and any restrictions imposed on the development or use of
16 the property can be obtained by the Department of Community Development in the files of the
17 following permits:

Enter Type of Permit Application # , filed on Date

18 Development in geologically hazardous areas inherently includes an elevated risk which can be
19 mitigated through proper development practices. To ensure continued safety and habitability
20 any future use and alteration of the land and structures thereon within the geologically
21 hazardous area or its buffer may only occur following a review for compliance with the Kitsap
22 County Critical Areas Ordinance.

23 The owner(s) of the property understands and accepts the responsibility for the risk associated
24 with development on the property given the described condition, and agrees to inform future
25 purchasers, successors, and assignees of the risks. The owner(s) of the property also
26 acknowledges that any damages that result from reliance on the Kitsap County Critical Areas
27 Ordinance, or any administrative decision lawfully made thereunder, does not create liability on
28 the part of Kitsap County, any officer or employee thereof.

29 STATE OF WASHINGTON)

30)

1 COUNTY OF KITSAP)

2 On this day, before me, personally appeared _____, to me known to
 3 be the individual(s) described herein and who executed the within and foregoing instrument,
 4 and acknowledged that they signed the same as their free and voluntary act and deed, for the
 5 uses and purposes therein mentioned.

6 GIVEN under my hand and official seal the ____ day of _____, 20____
 7 _____

8 NOTARY PUBLIC in and for the State of Washington,

9 Residing at _____

10 *Notary Seal* My Commission expires: _____

11 _____

12 Property Owner signature Property Owner signature

13 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 37 (part), 2005)

14 | **Appendix FE - Critical Area Decision Types**

15 Below are the decisions and their respective decision-making bodies included in Title 19 of the
 16 Kitsap County Code.

CRITICAL AREA DECISION TYPES			
	Type I	Type II	Type III
Written Notice (To Interested Parties and Neighbors Within 400 feet of Project)	No	Yes	Yes
Decision Making Body	Director	Director	Hearing Examiner (Public Hearing)
WETLANDS			
Uses within Wetlands and Buffers	X		
Mitigation Plans/Requirements	X		
Buffer Averaging (Cat. III and IV w/habitat scores <5, up to 50%)	X		
Buffer Averaging (all other wetlands, <25%)	X		

CRITICAL AREA DECISION TYPES			
	Type I	Type II	Type III
Administrative Buffer Reduction (<25% and not less than 30 feet for single family residence, and not less than 40 feet for all other uses)	X		
Variance (>25% for buffer reduction or averaging, or >50% for buffer averaging of Cat. III and IV wetlands w/habitat scores <5)			X
Appeals			X
STREAMS AND SHORELINES			
Buffer Averaging	X		
Administrative Buffer Reduction (<25%)	X		
Administrative Buffer Reduction (25-50% for single-family residence)		X	
Variance (>50% for single-family residence, or >25% for all other uses)			X
Appeals			X
WILDLIFE CONSERVATION AREAS			
Habitat Management Plan Approval	X		
Appeals			X
GEOLOGICALLY HAZARDOUS AREAS (STEEP SLOPES)			
Buffer/Setback Reduction (with Geotechnical Report Approval)	X		
Appeals			X
CRITICAL AQUIFERS RECHARGE AREAS			
Hydrological Report Approval	X		
Appeals			X

1 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 37 (part), 2005)

2 | **APPENDIX GE – Checklist and Sample Outline for a Delineation Report**

3 At a MINIMUM, a delineation report should include:

- 4 Field data sheets (complete set that were filled out during the wetland determination and
5 delineation). These could be added as an Appendix to the report.

- 1 □ A map identifying wetland boundaries and the locations of all data collection points (for
2 large and/or complex projects, a large scale [1":400' to 1":100'] aerial photo with overlays
3 displaying site property and wetland boundaries is helpful). This map must also clearly
4 delineate the boundaries of the area evaluated.

- 5 □ An explanation of the approach used to delineate the wetlands and synthesize the data.
6 Describe the vegetation, soils, and hydrologic characteristics and summarize the available
7 information used in making the wetland determination. The following are examples of potential
8 sources of information¹:
 - 9 ▪ USGS quadrangle map (or other topographic map of the area).
 - 10 ▪ National Wetland Inventory (NWI) map.
 - 11 ▪ Local wetland inventories.
 - 12 ▪ County soil surveys.
 - 13 ▪ Stream and tidal gage data.
 - 14 ▪ Previous site documentation and/ or analysis (e.g., environmental checklist, environmental
15 impact assessment or statement (EIA or EIS), geotechnical report).
 - 16 ▪ Federal Emergency Management Agency (FEMA) flood insurance rate maps.
 - 17 ▪ Regional maps that characterize the area.
 - 18 ▪ Local experts.
 - 19 ▪ USGS land use and land cover maps.
 - 20 ▪ Survey plans and engineering designs for the proposed development project.
 - 21 ▪ Aerial photos.
 - 22 ▪ Other site specific information.

- 23 □ Information on rare plants and high-quality wetlands from the Washington National
24 Heritage Program.

- 25 □ Information on priority habitats and species from the Washington Department of Fish and
26 Wildlife.

1 The following sample outline for a wetland delineation report has been copied with permission
2 from the *Field Guide for Wetland Delineation: 1987 Corps of Engineers Manual* prepared by the
3 Wetland Training Institute. Additional information can be found at the end of that field guide in
4 the section of the document entitled "Preparing a Delineation Report."

5 **I. Introduction**

- 6 A. Who authorized the delineation
- 7 B. Why is it being done
- 8 C. Location of site (Map)
- 9 D. Date of site visit(s)
- 10 E. Identification of delineators

11 **II. Methods**

- 12 A. Brief description of method used
- 13 B. Any modification of methods
- 14 C. Sources of existing information used

15 **III. Results and Discussion**

- 16 A. Description of the site
 - 17 1. Topography
 - 18 2. Plant communities
 - 19 3. Soils mapped and found (map)
 - 20 4. Hydrology information
 - 21 5. Existing wetland mapping (e.g., NWI/state/local)
- 22 B. Findings
 - 23 1. Types of wetlands identified (e.g., Cowardin, et al 1979)
 - 24 a. Description

- 1 b. Locations
- 2 c. Area
- 3 d. Contrast with nonwetland
- 4 e. How was boundary chosen (e.g., feature on the landscape)
- 5 2. Types of other waters identified
- 6 a. Description
- 7 b. Locations
- 8 c. Area
- 9 d. Contrast with nonwetland
- 10 e. How was boundary chosen (e.g., feature on the landscape)

11 3. Include maps/drawings showing results

12 **IV. Conclusion**

- 13 A. Brief summary of total area and the types of wetlands and other regulated waters
- 14 B. Statement regarding the need for permits
- 15 C. Caution that final authority rests with the appropriate agencies

16 **V. Literature Cited**

17 **VI. Appendix A (Data Sheets)**

18 (Ord. 545 (2017) § 5 (Appx. (part)), 2017: Ord. 351 (2005) § 37 (part), 2005)

19 | **Appendix HG - Mitigation Plan Checklist**

Included	Omitted	Introduction and Summary of Document
		Cover/Title Page
		Project Name
		Reference #'s (e.g., Corps application #)

Included	Omitted	Introduction and Summary of Document
		Date of publication
		Who it was prepared for and by/contact information
		Table of Contents
		List of Figures
		List of Tables
		Responsible Parties
		Executive Summary
		Proposed Development Project
		Project description
		Project location, maps
		Type of development (existing and proposed land uses)
		Size of the development project
		Construction schedule
		Description of the development site (baseline conditions)
		Historic and current land uses and zoning designations
		Existing wetlands on or adjacent to the development site
		Other aquatic resources on or adjacent to the development site
		Known historic or cultural resources on the development site
		Maps showing the baseline conditions of the development site and adjacent properties
		Assessment of the Impacts at the Development Site
		Area (acreage) of wetland impacts
		Description of the water regime
		Description of the soils
		Description of the vegetation
		Description of fauna using the site
		Position and function of the wetland(s) in the landscape
		Description of functions provided by the wetlands
		Wetland rating
		Buffers

Included	Omitted	Introduction and Summary of Document
		*Water quality
		Mitigation Approach
		Mitigation sequencing
		Project-specific goals
		Mitigation strategy
		Proposed Mitigation Site(s)
		Location, including map
		Site ownership
		Site selection rationale
		Site constraints
		Existing (Baseline) Conditions of the Mitigation Site
		Historic and current land uses and zoning designations
		Known historic or cultural resources on the mitigation site
		Existing wetlands on or adjacent to the development site
		Other aquatic resources on or adjacent to the development site
		*Maps showing current contours as surveyed. This is needed particularly when mitigation activities will alter ground elevations.
		Description of the water regime
		Description of the soils
		Description of the vegetation
		Description of fauna using the site
		Position and function of the wetland(s) in the landscape
		Description of functions provided by the wetlands
		Wetland rating
		Buffers
		*Water quality
		Maps related to the existing conditions of the mitigation site, existing wetlands, and adjacent properties
		Mitigation Site Plans/Design
		Description of Site Plan/Design

Included	Omitted	Introduction and Summary of Document
		Description of the water regime and how adequate amounts of water will be provided to support a wetland
		Type of development (existing and proposed land uses) Discussion of how the mitigation plan will compensate for lost and degraded functions
		Schematic drawings
		*Section drawings showing relationship of topography to water regime and vegetation
		Grading Plan/Site Maps
		Orientation and scale
		*Existing and proposed elevation contours
		*Spot elevations for low points, high points, and structures
		Property boundaries
		On-site wetland boundaries
		*On-site floodplain and ordinary high water mark boundaries
		*Survey of benchmarks
		*Location and elevation of soil borings or test pits
		*Location and elevation of water level sampling devices
		*Location of soils to be stockpiled, if any
		*Description of methods of erosion control and bank stabilization
		Buffer areas for the mitigation site and their boundaries
		Water Regime
		Description of the proposed frequency and duration of flooding, inundation, or soil saturation
		Description of the proposed groundwater and surface water sources and characteristics
		*Description of the elevation of the water table and dates measured
		*Engineering drawings of any proposed water control structures
		Soils
		Soils logs from on-site evaluation
		Description of how the soil characteristics will be affected by the mitigation activities

Included	Omitted	Introduction and Summary of Document
		*Description of the elevation of the water table and dates measured
		*Engineering drawings of any proposed water control structures
		Planting/Landscape Plans
		Topographic map showing typical planting scheme (distribution and spacing of vegetation)
		List of plant materials
		Other planting details
		Expected natural revegetation from existing seed bank and natural recruitment from nearby sites
		Description of methods to control invasive species
		A plan for irrigating the plants
		Description of soil amendments
		*Section drawings showing water levels in relation to plant distributions
		Description of protective features (fences, signs)
		Map of location and type of habitat structures
		*Examples of Similar Mitigation Projects
		*Description of the experience the designer has had with the type of mitigation proposed
		*Examples of other sites that have used the same approach
		*Other information that demonstrates that the high-risk plan will be successful
		Site-Specific Goals, Objectives, and Performance Standards
		Goals
		Objectives for each goal
		Performance standards for each objective
		Monitoring Plan
		Variables to be measured
		Sampling methods for each variable
		Schedule for sampling each variable
		A map of sampling locations or describe how the locations will be determined for each monitoring event

Included	Omitted	Introduction and Summary of Document
		*Laboratory methods to be used, if applicable
		Timetable for reporting monitoring results to the agencies (final plan only)
		Site Protection
		Describe measures that will be taken to protect the site over the long term
		Copies of legal documents (e.g., conservation easement, deed restriction) (final plan only)
		Maintenance and Contingency Plans (final plan only)
		Maintenance plan
		Description of and reason for each maintenance activity planned
		Maintenance schedule for each activity (where applicable)
		Contingency plan
		Initiating procedures
		*Description of contingency funds
		Implementation Schedule (final plan only)
		Construction sequence for grading, water diversions, plantings, etc.
		Time schedule and completions dates
		Permit conditions specifying time limits
		*Financial Assurances (final plan only)

1 **Items with asterisk (*) are required for more complex projects. If an item is not**
 2 **required for a draft mitigation plan, it is indicated in parenthesis (final plan only).**

3 (Ord. 545 (2017) § 5 (Appx. (part)), 2017)



4
 5 [1](#) These are potential sources of information that may have been helpful in making a
 6 determination, but not all listed sources of information may be applicable to a given situation.
 7 The delineator is not required to obtain information from all of the listed sources of
 8 information.

9
 10