Appendix A – Comp Plan Changes:

Introduction, Foundation and Vision:

Page INTR-7 – Added "While there is plenty of capacity to the existing city limits, Yakima will continue to consider annexation requests, where appropriate.

Page INTR-8 – Updated timeline language

Land Use Element:

Page LU-1 – Added "The element includes polices that support...annexation."

Page LU-5 – under challenges and opportunities, added a new bullet "Consideration of annexation requests where appropriate."

Page LU-7/8 – new policies for annexation and collaboration, as follows:

- 2.1.9 Consider annexation requests in accordance with review criteria, including, but not limited to:
- Areas to be annexed are included in the UGA.
- The annexation boundary, where appropriate, should adjust any impractical or irregular boundaries created in the past.
- The annexation boundary should, where appropriate, provide a contiguous and regular boundary with current City limits.
- The annexation proposal should create and/or preserve logical service areas. Annexations generally should not have or create abnormally irregular boundaries that are difficult to serve.
- The City should give priority consideration to annexation proposals that are financially selfsufficient or those where the fiscal impact can be improved. The City should develop a variety of service delivery or revenue enhancement options to increase the feasibility of annexation. The City may request a fiscal analysis of the annexation proposal by annexation proponents.
- 2.1.10 Require properties to assume zoning consistent with the City's Future Land Use Plan, as adopted or as amended where appropriate.
- 2.1.11 Continue to coordinate with Yakima County on future land use, shoreline, critical area, and infrastructure policies, plans, and permit reviews in the Yakima UGA.
- 2.1.12 Work in collaboration with Yakima County and cities through regional forums such as the Yakima Valley Council of Governments and the Yakima Basin Integrated Water Resource Management Plan.

Page LU-8/9 – revision of FLUM to retain Community Mixed Use for a row of parcels in the vicinity of Pacific Ave and South 15th Street.

Page LU-27 – Remove language encouraging housing *on* the Cascade Mill Property as it isn't allowed – changed to *adjacent*.

Page LU-29 – New policy 2.6.2.d – Work with WSDOT and Yakima County to consider alternative design plan(s) for the future East-West Corridor I-82 bridge with an iconic design that enhances the entryway into Yakima. (recommended during the April 11 Open House)

Page LU-30/31 – new policy 2.7.8 "Support the Yakima River Basin Integrated Water Resource Management Plan."

Housing Element:

Page H-6 – correction to the Percent of Population Below Federal Poverty Level text and table.

Transportation Element:

Page T-4 – Section 6.3 Vehicle Operations: change the number of intersections that don't meet City LOS standards to two and delete the reference to the S. 64th Ave / Tieton Dr. intersection.

Page T-5 – Addition of new language supporting the Yakima Regional Airport

Page T-11 – Exhibit-1 Implementation Table – added the Airport Master Plan, Yakima Transit Development Plan, and Yakima Bicycle Master Plan

Parks and Recreation Element:

Page PR-1 - Updated title of Parks and Recreation Comprehensive Plan 2017-2022

Page PR-3 – Policy 9.3.2 – Establish and ongoing six-year Capital Improvement Plan (CIP) for Parks and Recreation facilities.

Page PR-4 – Goal 9.4 – Expand-Support the presence of art throughout the community, particularly in public spaces and parks to enhance the community and its quality of life.

Page PR-4 – Policy 9.401 – Foster relationships Support with local arts organizations to encourage the addition of art in public spaces and parks.

Page PR-4 – Policy 9.5.1 – Draft a City standard for public open and green space.

Page PR-4 – Policy 9.5.2 – Develop and maintain an up-to-date park land acquisition plan that targets and sets priorities for potential future park acquisitions.

Page PR-5 – Policy 9.6.4 – Establish Coordinate landscaping standards for implementation along major streets, arterials and city pathways at urban gateways that are compatible with area uses and maintainable by existing city resources.

Page PR-5 – Policy 9.6.6 – Establish connectivity with Consider alternative connections to the William O. Douglas Trail portion which goes through the City of Yakima.

Appendix B - TSP Changes:

Page 8

- 1. New Section 1.4.2 talks about the connection to the Bicycle Master Plan
- 2. New Section 1.4.3 talks about the connection to the Airport Master Plan
- 3. New Section 1.4.4 talks about the connection to the Transit Development Plan

Page 10

4. Section 1.6.3 – Added language regarding historic transit ridership that can be found in the Transit Development Plan.

Page 13

5. Section 2.1.1 – Clarified grade separated crossing for Valley Mall Boulevard only.

Page 15

- 6. Figure 2-1
 - a. Add a Traffic Signal at 64th and Tieton.
 - b. Add a Traffic Signal at 72nd and Mead.
 - c. Add a Traffic Signal at 96th and Wide Hollow Road.

Page 28

 In the second paragraph under 2.2.1, change the number of intersections that don't meet City LOS standards to two and delete the reference to the S. 64th Ave / Tieton Dr intersection.

Page 29

- 8. Figure 2-9
 - a. Change the Two-Way Stop **F** at the intersection of 64th and Tieton to a Signal **B or C.**

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- 9. Figure 4-3
 - a. Yakima Ave from Interchange to 16th Ave Shared Priority
 - b. North 1st Street from "I" St to Interchange Shared Priority
 - c. Nob Hill from 64th Ave to 3rd Ave Shared Priority
 - d. Tieton Drive from 72nd Ave to 5th Ave Auto Priority
 - e. Fruitvale from 40th Ave to 5th Ave Shared Priority
 - f. New East/West Corridor Future Shared Priority
 - g. Identify streets outside of city limits as a different color, regardless of priority

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- 10. Figure 4-4
 - a. Remove Yakima Ave as a Truck Route

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- 11. Figure 4-6
 - a. East/West Corridor as future Primary Pedestrian Route
 - North 6th Avenue from Fruitvale to City Limits Primary Pedestrian Route (same as on Fig 4-8)

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12. Figure 4-8

c. Add East/West Corridor as future Primary Bike Route

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13. Figure 4-9

d. Add project R-1 (H Street Extension) to the map.

14. Project List:

e. A-13 – Clarification of X project



APPENDIX C CRITICAL AREAS REGULATIONS UPDATE BEST AVAILABLE SCIENCE RECOMMENDATIONS

INTRODUCTION

With passage of the Growth Management Act (GMA), local jurisdictions throughout Washington State (State), including the City of Yakima (City), were required to develop policies and regulations to designate and protect critical areas. The GMA directs jurisdictions to periodically conduct a thorough review and update their Comprehensive Plan and regulations (Revised Code of Washington [RCW] 36.70A.130). The City originally developed its first critical areas regulations in 1998 as Chapter 15.27 of its Yakima Municipal Code (YMC), and adopted revisions in 2008 and 2009 based on the then-current best available science (BAS).

The City is currently undergoing a comprehensive review and update of its Comprehensive Plan and development regulations. When updating critical areas policies and regulations, jurisdictions must revisit the standards to establish that they are based on the most recent BAS and "give special consideration to conservation or protection measures necessary to preserve or enhance anadromous fisheries" (RCW 36.70A.172).

Critical areas, as defined by the GMA (RCW 36.70A.030(5)), include:

- 1) Frequently flooded areas (Part Four of YMC 15.27),
- 2) Fish and wildlife habitat conservation areas (Part Five),
- 3) Wetlands (Part Six),
- 4) Geologically hazardous areas (Part Seven), and
- 5) Critical aquifer recharge areas (Part Eight).

The following table provides recommendations for revisions to the 2009 critical areas regulations based on recent advances in BAS, as well as improvements to support clarity, ease of use, and general consistency with the RCW and the Washington Administrative Code (WAC), and to eliminate redundancy and conflict with Title 17 (Shoreline Master Program [SMP] Regulations) YMC. Key areas of recommended change are as follows:

1) In the Fish and Wildlife Habitat Conservation Areas section, broaden the application to more than "hydrologically related critical areas" and update the stream typing and buffer system.

- 2) In the Wetlands section, implement updates for consistency with the recently modified wetlands regulations in the SMP and recently issued science-based wetland guidance.
- 3) In the Critical Aquifer Recharge Areas section, extensively revise to fill the risk gap left by deferring regulation of this resource primarily to state and federal law.

The scientific information reviewed during development of these recommendations is included in the last column of the table and listed in the References section at the end of this document.

Color Code:

Blue = Shoreline Consistency Green = WAC/RCW Consistency or WDFW/DOE Guidance Red = Outdated/No Longer Used or General Cleanup

Purple = BAS additional discussion

ANALYSIS OF CRITICAL AREAS REGULATIONS (YMC 15.27)

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
	Part One. General Provisions	
15.27.120 Purpose of chapter	Amend as follows: "The purpose of this chapter is to establish a single, uniform system of procedures and standards for development within designated critical areas <u>outside of shoreline jurisdiction</u> within the incorporated city of Yakima and its urban growth area ."	Clarifies that these regulations are not applicable in shoreline jurisdiction; shoreline critical areas regulations are separately addressed in Chapter 17.09 Yakima Municipal Code (YMC).
15.27.140.A Applicability	Amend as follows: "The provisions of this chapter shall apply to any new development, construction, or use within the incorporated portion of the city of Yakima and its urban growth area <u>outside of shoreline</u> <u>jurisdiction</u> designated as a critical area"	Change to avoid confusion with shoreline regulations in Title 17.

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
15.27.140.B Applicability	Update as needed.	
	Part Two. Definitions	
Fill	Amend as follows: "The physical structure of a shore <u>bank</u> stabilization structure shall not be considered fill"	Change to avoid confusion with shoreline regulations in Title 17.
Fish and wildlife habitat conservation	Add this definition: Fish and wildlife habitat conservation means land management for maintaining populations of species in suitable habitats within their natural geographic distribution so that the habitat available is sufficient to support viable populations over the long term and isolated subpopulations are not created. This does not mean maintaining all individuals of all species at all times, but it does mean not degrading or reducing populations or habitats so that they are no longer viable over the long term. Counties and cities should engage in cooperative planning and coordination to help assure long term population viability.	Definition taken from Washington Administrative Code (WAC) 365-190- 130(1).
Fish and wildlife habitat conservation areas	Add this definition: "Fish and wildlife habitat conservation areas" are areas that serve a critical role in sustaining needed habitats and species for the functional integrity of the ecosystem, and which, if altered, may reduce the likelihood that the species will persist over the long term. These areas may include, but are not limited to, rare or vulnerable ecological systems, communities, and habitat or habitat elements including seasonal ranges, breeding habitat, winter range, and movement corridors; and areas with high relative population density or species richness. Counties and cities may also designate locally important habitats and species. Fish and wildlife habitat conservation areas does not include such artificial features or constructs as irrigation delivery systems, irrigation infrastructure, irrigation canals, or drainage ditches that lie within the boundaries of, and are maintained by, a port district or an irrigation district or company.	Definition taken from WAC 365-190- 030(6)(a and c).
Habitats of local importance	Add this definition: "Habitats of local importance" are designated as fish and wildlife habitat conservation areas based on a finding by the city that they are locally important.	Definition adapted from WAC 365-190- 030(6)(b).
Hydrologically related critical area (HRCA)	Delete this definition as it's no longer in use.	

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
Priority habitat and species	 Add the following definitions: "Priority habitat" means a habitat type with unique or significant value to one or more species. An area classified and mapped as priority habitat must have one or more of the following attributes: comparatively high fish or wildlife density, comparatively high fish or wildlife species diversity, fish spawning habitat, important wildlife habitat, important fish or wildlife species diversity, fish spawning habitat, important wildlife habitat, important fish or wildlife species diversity, fish spawning habitat, refuge, limited availability, high vulnerability to habitat alteration, unique or dependent species, or shellfish bed. A priority habitat may be described by a unique vegetation type or by a dominant plant species that is of primary importance to fish and wildlife. A priority habitat may also be described by a successional stage. Alternatively, a priority habitat may consist of a specific habitat element (such as talus slopes, caves, or snags) of key value to fish and wildlife. A priority habitat may contain priority and/or nonpriority fish and wildlife. "Priority species" means species requiring protective measures and/or management guidelines to ensure their persistence at genetically viable population levels. Priority species are those that meet any of the criteria listed below: A. Washington State (State) Listed or State Proposed Species. State-listed species are those native fish and wildlife species legally designated as endangered (WAC 232-12-014), threatened (WAC 232-12-011), or sensitive (WAC 232-12-011). State proposed species are those fish and wildlife species that will be reviewed by WDFW (POL-M-6001) for possible listing as endangered, threatened, or sensitive according to the process and criteria defined in WAC 232-12-297. B. Vulnerable Aggregations. Vulnerable aggregations include those species or groups of animals susceptible to significant population declines, within a specific area or statewide, by virtue of thei	These definitions were taken from Washington Department of Fish and Wildlife's (WDFW's) <i>Priority</i> <i>Habitat and Species</i> <i>List</i> (2008). WDFW's system for designating Priority Habitats and Species (PHS), and providing recommendations for management of those habitats and species, is an important element of best available science that guides protection of the full range of fish and wildlife habitat conservation areas. The current regulations thoroughly address aquatic species and habitats, but other habitats and species are not covered.

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
Restore and Restoration	Replace with the following (adapted from the definition used in YMC 17.01.090): "Restore," "restoration" or "ecological restoration" means the reestablishment or upgrading of impaired functions, such as those listed in YMC 15.27.504, that have been lost or destroyed through natural events or human activity. This may be accomplished through measures including, but not limited to, revegetation, removal of intrusive structures, and removal or treatment of toxic materials. Restoration does not imply a requirement for returning the site to aboriginal or pre-European settlement conditions.	Consistency with definition in Title 17. This definition includes the appropriate acknowledgment that "restoration" is a continuum from any upgrade to full reestablishment.
Species of local importance	Add this definition: "Species of local importance" are those species that are of local concern due to their population status or their sensitivity to habitat alteration or that are game species.	Taken from WAC 365-190-030(19).
Waters of the state	Add this definition: "Waters of the state" are all lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and watercourses within the jurisdiction of the state of Washington.	Taken from Revised Code of Washington (RCW) 90.48.020.
	Part Three. Application and Review Procedures	
15.27.305 Documented exemptions for hydrologically related critical areas and wetlands	Update section title to: Documented exemptions for <u>fish and wildlife habitat conservation</u> hydrologically related critical areas and wetlands.	Greater consistency with WAC classification of critical areas.
15.27.307.A Mitigation requirements	Modify as follows: If an alteration to a critical area is unavoidable, all adverse impacts to that critical area and its buffers shall be mitigated for in accordance with an approved mitigation plan and mitigation for wetland impacts shall be mitigated in accordance with the Washington State Department of Ecology Wetland Mitigation in Washington State, Parts 1 and 2 (March 2006 or as updated).	Critical area-specific mitigation guidance should be located within that critical area's regulations section for ease of staff and public use.

Section of the Yakima Municipal		Comment /
Code Chapter 15.27	Recommendation	Science Reference
15.27.315	Modify as follows:	Greater consistency
Supplemental	A. <u>Fish and Wildlife Habitat Conservation Areas</u> Stream Corridors. When a critical areas report is required for a	with RCW and WAC classification of
report	fish and wildlife habitat conservation areastream corridor or hydrologically related critical area, it shall include	critical areas.
requirements for	the following:	
specific critical areas	Add a new <u>3. A discussion of any federal, state or local management recommendations which have been</u> developed for the species or habitats in the area, and how they will be incorporated into the project.	
	Part Four. Flood Hazard Areas	
15.27.401 Principles	Modify as follows: Part Four recognizes the right and need of the river and stream channels to periodically carry more than the normal flow of water	This sentence's reference to "the river" implies that there is only one feature in the City of Yakima (City) that has designated flood hazard areas. Two rivers and a number of streams have mapped floodway and/or floodplain.
	• Consider curtailing certain permitted uses (particularly new development) in the floodway fringe and expanding the list of prohibited uses in the floodway fringe so that treatment is more similar to floodway regulations.	RCW 36.70A.172 requires that the City "give special
15.27.409- 15.27.412	Consider prohibiting new dikes in the floodway.	consideration to conservation or
Floodway fringe and floodway permitted and	Subsequent to the March 22, 2017 meeting, I received some clarification regarding allowed uses. The permitted uses is proposed to be modified as follows:	protection measures necessary to preserve or enhance
prohibited uses		anadromous
	15.27.409 Permitted uses.	fisheries." WDFW
	The following uses are permitted in the floodway fringe areas:	(Knight, 2009) and
		many other sources

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
	 A. Any use permitted in the zoning district in accordance with this title, unless prohibited by YMC 15.27.410; provided, that said use is in compliance with the flood hazard protection standards of YMC 15.27.407 and 15.27.408 and other applicable provisions of this chapter and will have a negligible effect upon the floodway in accordance with the floodway encroachment provisions of YMC 15.27.412(B); B. All new encroachments, including fill, new construction and other development, if certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall not materially cause water to be diverted upland of the established floodway fringe, cause erosion, obstruct the natural flow of water, reduce the carrying capacity of the floodway, or result in any increase in flood levels during the occurrence of the base flood discharge; C. All new encroachment is separated from the waterbody by an existing public roadway or legal development. 2. The new encroachment is located in a residential zone with a density of greater than 1 unit per acres. D. Utility Transmission Lines. Utility transmission lines shall be permitted when consistent with this title and where not otherwise inconsistent with Part Four of this chapter; except that when the primary purpose of such a transmission line is to transfer bulk products or energy through a floodway fringe or special flood hazard areas by the most direct route feasible. When support towers must be located within floodway fringe or special flood hazard areas, they shall be placed to avoid high floodwater velocity and/or depth areas, and shall be adequately floodproofed. 2. Buried utility transmission lines stansporting hazardous materials, including but not limited to crude and refined petroleum produc	emphasize the importance of floodplains in providing physical habitat for salmonids, as well as supporting watershed-/basin- level processes that help form and maintain physical habitat. New uses in floodplains can degrade aquatic habitat and have an adverse effect on salmonids and other aquatic or terrestrial species if they increase stormwater runoff/reduce infiltration, reduce sources of large woody debris, alter the size and volume of sediment inputs, or interfere with channel migration, among others.

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
	4. Aboveground utility transmission lines, not including electric transmission lines, shall only be allowed for the transportation of nonhazardous materials. In such cases, applicants must demonstrate that line placement will have no appreciable effect upon flood depth, velocity or passage. Such lines shall be adequately protected from flood damage.	
	5. Aboveground utility transmission line appurtenant structures, including valves, pumping stations or other control facilities, shall not be permitted in floodway fringe or special flood hazard areas except where no other alternative is available, or in the event a floodway fringe or special flood hazard location is environmentally preferable. This does not apply to domestic water and regional wastewater transmission pipes. In such instances, aboveground structures shall be located so that no appreciable effect upon flood depth, velocity or passage is created, and shall be adequately floodproofed. (Ord. 2008-46 § 1 (part), 2008).	
	E. Any use permitted in the zoning district in accordance with this title, unless prohibited by YMC 15.27.410, that is unable to adhere to the standards contained in YMC 15.27.409(A-D) above may be permitted if a study is prepared by a qualified professional, in accordance with YMC 15.27.314, that addresses whether the encroachment would have an adverse impact on fish and wildlife and/or floodplain functions.	
	15.27.410 Prohibited uses. The following uses are prohibited in the floodway fringe areas:	
	A. Any structure, including manufactured homes and the expansion of manufactured home/parks, designed for or to be used for human habitation of a permanent nature (including temporary dwellings authorized by YMC 15.04.130 and 15.04.140) that does not meet the criteria in YMC 15.27.409(A-E);	
	B. Any encroachments, including fill, new construction and other development, unless certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall not materially cause water to be diverted upland of the established floodway fringe, cause erosion, obstruct the natural flow of water, reduce the carrying capacity of the floodway, or result in any increase in flood levels during the occurrence of the base flood discharge;	
	C. Reconstruction of residential structures within the designated floodway fringe, except for:	
	1. Repairs, reconstruction, or improvements to a structure which do not increase the ground floor area; and	

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
	 Repairs, reconstruction or improvements to a structure, the cost of which does not exceed fifty percent of the assessed value of the structure either: a. Before the repair, reconstruction or improvement is started; or b. If the structure has been damaged and is being restored, before the damage occurred. Work done on structures to correct existing violations of existing health, sanitary or safety codes, or to structures identified as historic places, shall not be included in the fifty percent. If subsection B of this section is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Part Four. 	
	Part Five. Fish and Wildlife Habitat and the Stream Corridor System	
General	Replace use of "hydrologically related critical area" to the more encompassing "fish and wildlife habitat conservation area" in this section. Retitle this Part Five as "Fish and Wildlife Habitat Conservation Areas."	See comment below.
15.27.500 Purpose and intent	 Revise the Purpose and Intent section as shown below: "The stream corridor system includes hydrologically related critical areas, streams, lakes, ponds, and wetlands and is part of a fragile and highly complex relationship of geology, soils, water, vegetation, and wildlife. Policies and standards to help conserve and protect fish and wildlife habitat conservation areas are designed to accomplish the following: A. Meet the requirements of the Growth Management Act (RCW 36.70A.172) regarding best available science; B. Follow the requirements pursuant to flood-resistant construction in the adopted building code; C. Provide a zero net loss of natural wetland functions and values; B. Provide possible Require consideration of alternatives for necessary development, construction, and uses within fish and wildlife habitat conservation areas a designated stream corridor and other hydrologically related critical areas; C. Prevent decline in the quantity and quality of surface and subsurface waters; D. F. Conserve, restore, and protect fish and wildlife habitats, vegetation, and ecological relationships; 	This Purpose and Intent section and the regulations that follow target only hydrologically related critical areas, which eliminates the potential to provide appropriate levels of protection of upland habitats and species that require those upland habitats to support some part of their life cycle. Accordingly,

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
	 <u>EG</u>. Protect sensitive areas of the stream corridor fish and wildlife habitat conservation areas from the potential negative effects of development through coordinated land use planning; and <u>FH</u>. <u>Protect fish and wildlife habitat conservation areas</u> <i>∓</i>through voluntary agreements or government incentives., provide protection of natural wetland functions and values; and <u>I. Recognize wildlife area conservation habitats within their natural geographic location through coordinated land use planning.</u>" 	language is recommended to address the full range of potential fish and wildlife habitats in the City, outside of shoreline jurisdiction, and to be consistent with updated definitions of this critical area type that were promulgated by WDFW and included in the WAC.
15.27.501 Protection approach	 Revise the Protection Approach section as shown below: "A.—To maintain fish and wildlife habitat, there must be adequate environmental conditions for reproduction, foraging, resting, cover, and dispersal of animals. Factors affecting both habitat and its quality include the presence of essential resources such as food, water, <u>and cover nest building materials</u>, and lack of <u>disturbance and</u> diseases. The city of Yakima protects fish and wildlife habitat through: <u>Designation of fish and wildlife habitat conservation areas</u>. Protection of habitat for aquatic species; and <u>Application of development standards based on best available science to proposed activity and development in or near fish and wildlife habitat conservation areas</u>. Protection of habitat for species located near the water. B. The city of Yakima's approach to protecting threatened, endangered, and sensitive species habitat is by using the protection approach sections of this chapter." 	Modified A for technical accuracy and to provide greater clarity of protection mechanisms.
15.27.502 and 15.27.503 Hydrologically	Replace/modify existing language in .502 and .503 with the following, and retitle section as 15.27.502 Designation:	Derived from WAC 365-190-130(2).

Section of the Yakima Municipal Code Chapter 15.27		Recommendation	Comment / Science Reference
related critical area features and Habitat and habitats of local importance	А.	 Designation: Fish and wildlife habitat conservation areas are those habitat areas outside of shoreline jurisdiction that meet any of the criteria listed below. Areas with which state and federal endangered, threatened, and sensitive species have a primary association; Habitats and species of local importance; Naturally occurring ponds under 20 acres and their submerged aquatic beds that provide fish or wildlife habitat; Waters of the state, including any required buffers and associated Federal Emergency Management Agency-mapped floodplains and floodways; Lakes, ponds, streams, and rivers planted with game fish by a governmental or tribal entity; and State natural area preserves, natural resource conservation areas, and state wildlife areas. Habitats and species of local importance. All species and habitats identified by WDFW's <i>Priority Habitats and Species</i> program that may be found in the city of Yakima are designated as fish and wildlife habitat conservation areas and afforded protection under this chapter. [Retain existing 15.27.503.C as shown] "Development Standards. Projects located within habitats of local importance or within 200 feet of species of local importance, as designated in subsection A <u>B.1</u> and <u>B.2</u> of this section, shall meet the standards below, rather than comply with the applicable development standards in YMC 15.27.508 through 15.27.51_unless review is also needed for a hydrologically related critical area. In addition, <u>P</u>projects shall be designated agreenes, or those adopted for species or habitat by federal and state agencies, or those adopted for species and habitats of local importance by the city of Yakima. The department shall consider the extent such recommendations are used in its decision on the proposal, and may consider recommendations and advice from agencies with expertise." 	Recommend reorganization of these code sections to provide more consistency with the State's classification of critical areas, and better balance the emphasis on aquatic <i>and terrestrial</i> species. Although the City's code currently contains a process for designating species and habitats of local importance, this section of code has not been used. Instead, it is recommended, consistent with WDFW guidance, that habitats and species of local importance be specifically named to include PHS minimally, and then include the process for nominating

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
		additional species or habitats.
Streams, Lake and Ponds Typing System 15.27.505	The current water-typing system does not provide a clear, scientific basis to distinguish the different water types. The City should consider switching to either WAC 222-16-030 (Water typing system) or WAC 222-16-031 (Interim water typing system). Either of these systems would support application of the buffer scale in a way that more closely matches the actual functions and values of a given waterbody.	RCW 36.70A.172 requires that the City "give special consideration to conservation or protection measures necessary to preserve or enhance anadromous fisheries." Although the current typing system's linkage to a suite of specific functions (in the case of Type 2) is science- based, the application of it is too subjective, and there could be situations where anadromous fish or other salmonids may be using a lower- functioning stream, and thus be assigned an inappropriately smaller buffer.
15.27.505.A Streams, lakes and	Amend as follows: Type 1 waters streams are those waters, within their ordinary high water mark (OHWM), meeting the criteria as "shorelines of the state" and "shorelines of statewide significance" under RCW Chapter	If the City elects to switch to the system

Section of the Yakima Municipal Code Chapter 15.27	Recommendation	Comment / Science Reference
ponds typing system	90.58. <u>Other Ww</u> aters-associated with Type 1 <u>waters streams as defined in RCW Chapter 90.58 are not</u> includedare not considered Type 1 waters. Type 1 waters are regulated exclusively under Title 17 of the Yakima Municipal Code.	in WAC 222-16-030, Type 1 would be re- named Type S.
15.27.505.B Streams, lakes and ponds typing system	The delineation of perennial streams into Type 2 (listed in current Appendix B) and Type 3 waters as currently defined seems particularly vague and subjective. If the City does not wish to switch water typing systems altogether, then it is recommended that Type 2 be defined as perennial, salmonid-bearing and Type 3 be defined as perennial, non-salmonid-bearing. Type 4 should then be limited to non-fish-bearing. Appendix B could either be eliminated, or updated based on the best available information. In the latter case, Cowiche Creek (that portion which is not Type 1 or Type S) and Spring Creek, as well as any accessible tributaries, should at the very least be added to Appendix B as a Type 2 water. If Appendix B is retained, with further modifications to the list, amend as follows: "Type 2 streams are those surface water features listed in Appendix B of this title which require protection due to the nature of their contributions to the functional properties listed in YMC 15.27.504. and are considered "streams, lakes and/or ponds of local importance," as listed in Appendix B of this title."	WAC 222-16-030 or - 031; WDFW, 2016
15.27.505.F.3 Streams, lakes and ponds typing system	Delete this provision.	Title 17 provides all of the necessary detail regarding which waters may or may not be considered a shoreline (Type 1).
15.27.506 Wetland rating system	Remove this section regarding the wetland rating system.	Recommendation for clarity. This important regulation should be in the wetlands regulations section.
15.27.507 Maps	Suggest relocating this section to a consolidated early section on critical areas maps in general, perhaps in Part One or Part Two, Article II. The text and list should be modified accordingly, considering the actual content of the updated map sets.	

Section of the Yakima Municipal Code Chapter 15.27		Recommendation		Comment / Science Reference
15.27.510513 Use classifications etc.	Delete these provisions.			The concept of use classifications surrounding water orientation is only appropriate for shoreline (Type 1) waterbodies, which are solely regulated via Title 17. These provisions are not suitable or necessary for Types 2-5 waters.
15.27.514 Vegetative buffers	hydrologically related	a vegetative buffer system is necessary to prote critical areas. Standard and minimum buffers for (Tables 27.5-1 and 27.5-2). Buffers associated v Buffer Width—standard/(minimum adjustmentwidth) ¹ 100 ¹ See Table 09.030-1 in YMC 17.09.030.P. 75'/(25 56.25')	ər streams, lakes, <u>and</u> ponds , and	These bufferrecommendationsare based on reviewof Final Draft Semi-arid RiparianFunctions andAssociatedRegulatoryProtections toSupport ShorelineMaster ProgramUpdates (AnchorQEA, LLC, 2013) andaerial photographs.Note that ascurrently defined,the City's Type 4

¹ The buffer modifications suggested below are recommended if the City does not change its current rating system definitions.

Blue = Shoreline Consistency Green = WAC/RCW Consistency or WDFW/DOE Guidance Red = Outdated/No Longer Used or General Cleanup

Section of the Yakima Municipal Code Chapter 15.27		Recommendation		Comment / Science Reference
A.	 and from the edg or wetland water 15.27.317). Howe widths for wetland through thirty-six wildlife species' n Type 1 waters stranot part of this tit The minimum but allowed by means additional approv The adequacy of the vegetative commarea. 1. If the vegetative width. 	 5065'/(2548.75') 2550'/(1537.5') No buffer standards. Type 5 streams are not regulated as streams, but may be protected under geologically hazardous area, floodplain, stormwater, construction, grading or other development regulations. s shall be measured from the ordinary high wate e of the wetlands. The width of the buffer shall type. Buffer width may be reduced through an ever, the administrative official may not approve ds that score medium (twenty through twenty copoints) for wetland habitat function, except whereds within the buffer can be met with a smalle eams, lakes, and ponds are protected by the shore. ffer widths listed in Tables 27.5-1 and 27.5-2 are so of the adjustment process. Adjustments below ral criteria as provided in YMC 15.27.317(C)(4). these standard buffer widths presumes the exist unity within the buffer zone that is deemed adeaded in the standard buffer widths presumes the exist unity within the buffer zone that is deemed adeaded. 	be determined according to the stream adjustment permit process (YMC e-reductions to the standard buffer eight points) or high (twenty-nine ere it can be shown that a particular r buffer. oreline master program (<u>Title 17</u>) and are the lowest possible buffer widths v the minimum buffer width must meet ence of a relatively intact native quate to protect the identified critical idered with any adjustment to the buffer	stream could be fish- bearing. Removed wetland- specific language, and relocated to the appropriate wetlands section. Added detailed regulations for mechanisms to modify stream buffers, consistent with the updated wetland regulation buffer modification tools.

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	E. Where a legally established road or railway crosses a buffer, the administrative official may approve a	
	modification of the minimum required buffer width to the waterward edge of the improved road or	
	railway if a study submitted by the applicant and prepared by a qualified professional demonstrates that	
	the part of the buffer on the upland side of the road or railway sought to be reduced:	
	1. Does not provide additional protection of the waterbody; and	
	2. Provides insignificant biological, geological or hydrological buffer functions relating to the waterward	
	portion of the buffer adjacent to the waterbody.	
	If the improved roadway corridor is wider than 20 feet, a study is not required.	
	F. Buffer averaging to improve habitat protection may be permitted when all of the following conditions are	
	met:	
	1. The water or its riparian corridor has significant differences in characteristics that affect its habitat	
	functions.	
	2. The buffer is increased adjacent to the higher-functioning area of habitat or more sensitive portion of	
	the habitat, and decreased adjacent to the lower-functioning or less sensitive portion as	
	demonstrated by a critical areas report from a qualified professional.	
	3. The total area of the buffer after averaging is equal to the area required without averaging.	
	4. The buffer at its narrowest point is never less than three-quarters of the required width.	
	G. Buffer averaging to allow reasonable use of a parcel may be permitted when all of the following	
	<u>conditions are met:</u> 1. There are no feasible alternatives to the site design that could be accomplished without buffer	
	averaging. 2. The averaged buffer will not result in degradation of the waterbody or riparian corridor's functions	
	and values as demonstrated by a critical areas report from a qualified professional.	
	3. The total buffer area after averaging is equal to the area required without averaging.	
	4. The buffer at its narrowest point is never less than three-quarters of the required without averaging.	
	The barrer action and west point is never less than three quarters of the required width.	
	The administrative official may not approve reductions to the standard buffer widths for wetlands that score	
	medium (twenty through twenty-eight points) or high (twenty-nine through thirty-six points) for wetland	
	habitat function, except where it can be shown that a particular wildlife species' needs within the buffer can	
	be met with a smaller buffer.	
	Table 27.5-2	
L		

Section of the Yakima Municipal Code Chapter 15.27	Recommendation			Comment / Science Reference		
	Type 1 Wetlands (standard/minimum) 200'/100'	Type 2 Wetlands (standard/minimum) 150'/75'	Type 3 Wetlands (standard/minimum) 100'/50'	Type 4 Wetlands (standard/minimum) 50'/25'	-	
15.27.515 Roads, railroads, and parking AND 15.27.516 Utility transmission lines and facilities	Consider developing a P within Article VI, Permit more general criteria the sections into one section regulations section desc	Review Criteria, and con at could apply to more on governing linear and/o	nsolidating the applicable critical area types. Altern or public facilities, or even	e provisions from .515 a atively, could consolida n more generally be par	nd .516 into te these two t of a	Suggestions will support flexibility for modifications that often have minimal feasible or appropriate alternatives. Whitman County Code 9.05.110 provides a good example of PAUE language.
15.27.517 Shore <u>Bank</u> stabilization AND 15.27.518 Dredging and excavation AND 15.27.519 Filling	Most of the activities in .517519 are most likely to be proposed or undertaken in shoreline jurisdiction, and thus not subject to these regulations. Many of these provisions could be removed outright. As suggested immediately above, these sections could also fall underneath a more general set of regulations describing modifications allowed in non-shoreline waters and/or their buffers.			Change would eliminate redundancy and minimize unnecessary language.		
15.27.520 Commercial mining of gravel	This activity seems likely to be only pursued in shoreline jurisdiction. If that's the case, this section could be deleted.			Change would eliminate redundancy and minimize unnecessary language.		
15.27.521 Reclamation	Retitle this section to "R activities.	estoration," as Reclama	tion is a term more com	monly associated with p	ost-mining	Consistency with current terminology.

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	Part Six. Wetlands Replace 15.27.601605 with 17.09.040.BG, with the following exceptions:	
General	 Substitute appropriate cross-references in 15.27.XX for the equivalent references in Title 17 (e.g., in 17.09.040.B.2, substitute 17.25.200 for the reference to 17.01.090). Replace "shoreline administrator" with "administrative official." Replace references to shoreline permits with the equivalent non-shoreline permit. Replace "most current, accurate, and complete scientific and technical information available that is applicable to the issues of concern" with "best available science." 	As part of the recent SMP update, the wetland regulations section was incorporated into the SMP, but updated to reflect the most current scientific information. Much of the SMP version of these regulations can then be used wholesale, except where there were shoreline-specific modifications.
17.09.040.B.1	Revise 17.09.040.B.1 as follows: "Consistent with WAC 173-22-035, wWetlands in shoreline jurisdiction shall be delineated"	Update to remove inapplicable shoreline reference.
17.09.040.D.2	Revise 17.09.040.D.2 as follows: "Washington State Wetland Rating System for Eastern Washington, revised <u>October 2014</u> March 2007 (Ecology Publication Number <u>14-06-03004-06-15</u> , or as revised)"	Ecology's most recent wetland rating system represents the best available science (Hruby, 2014).
17.09.040.D.2.a-d	 Replace 17.09.040.D.2.a-d with the following: a. Category I wetlands are those 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. Risk of any 	Descriptions of the different wetland categories are from

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	 degradation to these wetlands must be avoided because their functions and values are too difficult to replace. Generally, these wetlands are not common and make up a small percentage of the wetlands in the region. b. Category II wetlands are difficult, though not impossible, to replace, and provide high levels of some functions. These wetlands occur more commonly than Category I wetlands, but still need a relatively high level of protection. c. Category III wetlands are wetlands with a moderate level of functions and can often be adequately replaced with a well-planned mitigation project. These wetlands generally have been disturbed in some ways and are often less diverse or more isolated from other natural resources in the landscape than Category II wetlands. d. Category IV wetlands have the lowest level of functions and are often heavily disturbed. These are wetlands that should be able to be replaced and, in some cases, improved. However, experience has shown that replacement cannot be guaranteed in any specific case. These wetlands may provide some 	Washington State Wetland Rating System For Eastern Washington (Hruby, 2014).
	important functions and also need to be protected.	
17.09.040.E Wetland Buffers	Replace Sub-section E with XX.050 from <i>Wetland Guidance for CAO Updates Eastern Washington Version</i> (Bunten and others, 2016).	Wetland Guidance for CAO Updates Eastern Washington Version (Bunten and others, 2016)
17.09.040.F and G	Replace Sub-sections F and G with Section XX.070 from <i>Wetland Guidance for CAO Updates Eastern</i> <i>Washington Version</i> (Bunten and others, 2016).	Wetland Guidance for CAO Updates Eastern Washington Version (Bunten and others, 2016). While lengthier than the current language, this more detailed section will provide better consistency with the U.S. Army Corps of Engineers

Purple = BAS additional discussion

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		(Corps) and U.S. Environmental Protection Agency (EPA) <i>Compensatory</i> <i>Mitigation for Losses</i> <i>of Aquatic Resources;</i> <i>Final Rule</i> (Corps, 2008).
	Part Seven. Geologically Hazardous Areas	
15.27.701 Mapping and designation	Modify A.2.d as shown: <u>Channel migration zones and s</u> Stream undercutting. Modify C as shown: The approximate location and extent of geologically hazardous areas are shown on the city's critical area map titled "Geologically Hazardous Areas of the City of Yakima." The following geologically hazardous areas have been mapped and classified using the criteria found in WAC 365-190- <u>120080(4)(b)</u> through (h):	Updated WAC language and references.
15.27.702.A	Modify as shown:YMC Title 11 requirements can be met by the application of the Best Management Practices (BMPs) in the <u>Stormwater Management Manual for</u> Eastern Washington Stormwater Manual (WDOE Ecology publication number 04-10-076 <u>, or most recent version</u>);	Change clarifies manual title, and ensures that the most current and scientifically based version would continue to be used in the future.
15.27.702.D	Modify as shown:Protection measures for stream undercutting hazard areas will be accomplished by critical areas review for flood hazards, and shoreline jurisdiction.	Update to remove inapplicable shoreline reference.
15.27.703.B.2	Modify as shown:The administrative official is authorized to waive further geologic hazard review for oversteepened slopes on the basis that the hazards identified by the geologic hazard report will be adequately mitigated through <u>conditions applied to</u> the <u>issuance of a grading or construction permit</u> .	Change for clarity (the issuance of a permit doesn't mitigate hazards, unless that permit

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		contains appropriate conditions).
	Part Eight. Critical Aquifer Recharge Areas (CARA)	
15.27.810 Mapping	 The map referenced in this section does <i>not</i> clearly illustrate all of the features named in the regulations. The referenced critical aquifer recharge area guidance document has also been updated since 1997. The most recent version (Morgan, 2005) stresses the importance of mapping public water supply wells, private wells, aquifer boundaries, and areas that have been rated for susceptibility. In the absence of good maps, the 2005 guidance document emphasizes more strongly the important of performance standards. At this time, the section should be edited to reflect what is available, and require use of the latest guidance for future mapping efforts. Suggest renaming this section to "Maps and Reference Documents" or something similar. At a minimum, the following maps and reference documents could be listed: U.S. Department of Agriculture Soil Survey <u>http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx</u> Washington Department of Health Group A and B Maps <u>https://fortress.wa.gov/doh/eh/maps/SWAP/index.html</u> Soil Survey of Yakima County Area, Washington (report only) <u>http://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/washington/yakimaWA1985/yakimaWA1985-I.pdf</u> City of Yakima Wellhead Protection Plan http://www.yakimacounty.us/669/City-of-Yakima-Wellhead-Protection-Plan Hydrogeologic Framework of Sedimentary Deposits in Six Structural Basins, Yakima Basin plate http://pubs.usgs.gov/sir/2006/5116/pdf/sir20065116_plate4.pdf 	Critical Aquifer Recharge Areas Guidance Document (Morgan, 2005)
15.27.820 Protection Approach	 Existing .820.B essentially relies on property owner/applicant compliance with a variety of existing local, state and federal laws. Given the lack of good maps at this time and the gaps in appropriate protection that can result from reliance on state and federal regulations (see Morgan, 2005), complete revision of the regulations is recommended as shown below. These regulations were adapted from the City of Redmond's and City of Ellensburg's regulations, both of which were last updated in 2013, customized to the City of Yakima. After reviewing a number of examples of CARA 	Critical Aquifer Recharge Areas Guidance Document (Morgan, 2005)

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	regulations from other cities and counties, Redmond/Ellensburg was chosen based on their content and level of detail, which were a good fit considering the City of Yakima's available information. Ellensburg has a similar landscape position to Yakima. Where applicable, language from Yakima County's code was also integrated.	
	During review of other CARA regulation examples, it was noted that there seemed to be three primary approaches:	
	1) High level of detail and specificity based on more extensive groundwater/aquifer mapping and analysis (e.g., Cowlitz County). This specificity can significantly reduce the burden on staff and applicants.	
	2) Low level of detail and specificity, with the regulations deferring primarily to state and federal regulations. In several cases, additional reporting or other performance standards could be required by the Director when a development "has potential to impact an aquifer," but the regulations do not identify reliable, science-based indicators to help a Director make that determination (e.g., Benton County).	
	3) Moderate level of detail, with tiered submittal requirements and more specific standards, but limited supporting map analysis. (e.g., Redmond and Ellensburg).	
	The following set of recommended regulations takes the moderate approach. With a budget commitment by the City (e.g., either now or as part of a future work program by the City or a joint effort of the County-City if appropriate), maps could be generated and these regulations could be refined to further minimize staff and applicant reporting and analysis.	

RECOMMENDED CARA REGULATIONS

15.27.820 Protection approach.

- A. Classification and Rating of Critical Aquifer Recharge Areas. To promote consistent application of the standards and requirements of this section, Critical Aquifer Recharge Areas within the City shall be rated or classified according to their characteristics, function and value, and/or their sensitivity to disturbance.
 - 1. Critical Aquifer Recharge Areas Classification. Critical aquifer recharge areas are those areas with a critical recharging effect on aquifers used for potable water. Wellhead protection involves the management of activities that have a potential to degrade the quality of groundwater produced by a supply well. The City is classified into four wellhead protection zones that are based on proximity to and travel time of groundwater to Group A and

Group B water source wells within the City limits, and are designated using guidance from the Washington Department of Health Wellhead Protection Program pursuant to Chapter 246-290 WAC.

- a. Wellhead Protection Zone 1 represents the land area overlying the six-month time-of-travel zone of any Group A water source well and/or land area overlying any Group B wellhead protection area.
- b. Wellhead Protection Zone 2 represents the land area that overlies the one-year time-of-travel zone of any Group A water source well, excluding the land area contained within Wellhead Protection Zone 1.
- c. Wellhead Protection Zone 3 represents the land area that overlies the five-year and ten-year time-of-travel zones of any Group A water source well, excluding the land area contained within Wellhead Protection Zones 1 or 2.
- d. Wellhead Protection Zone 4 represents all the remaining land area in the City not included in Wellhead Protection Zones 1, 2, or 3.
- 2. Classification of wellhead protection zones shall be determined in accordance with the City's Wellhead Protection Plan and the Washington State Department of Health, Office of Drinking Water, Source Water Assessment Program (SWAP) Mapping Application, which designates time of travel and wellhead protection zones that correspond to Zones 1 through 4, noted in subsection 1 above.
- B. Prohibited Activities in Wellhead Protection Zones.
 - 1. Land uses or activities for new development or redevelopment that pose a significant hazard to the City's groundwater resources, resulting from storing, handling, treating, using, producing, recycling, or disposing of hazardous materials or other deleterious substances, shall be prohibited in Wellhead Protection Zones 1 and 2. These land uses and activities include, but are not limited to:
 - a. Large on-site sewage systems, as defined in WAC Chapter 246-272A;
 - b. Hazardous liquid pipelines as defined in RCW Chapter 81.88;
 - c. Solid waste landfills or transfer stations, including hazardous or dangerous waste, municipal solid waste, special waste, wood waste, and inert and demolition waste;
 - d. Liquid petroleum refining, reprocessing, and storage;
 - e. Bulk storage facilities;
 - f. Hard rock and sand and gravel mining, unless located within the mineral resource designation;
 - g. The storage or distribution of gasoline treated with the additive methyl tertiary butyl ether;

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- h. Hazardous waste treatment, storage, and disposal facilities except those defined under permit by rule for industrial wastewater treatment processes per WAC 173-303-802(5)(a);
- i. Chemical manufacturing, including but not limited to, organic and inorganic chemicals, plastics and resins, pharmaceuticals, cleaning compounds, paints and lacquers, and agricultural chemicals;
- j. Dry cleaning establishments using the solvent perchloroethylene or similarly toxic compounds;
- k. Primary and secondary metal industries that manufacture, produce, smelt, or refine ferrous and nonferrous metals from molten materials;
- I. Wood treatment facilities that allow any portion of the treatment process to occur over permeable surfaces (both natural and manmade);
- m. Mobile fleet fueling operations;
- n. Class I, Class II, Class IV, and the following types of Class V wells: 5A7, 5F01, 5D03, 5F04, 5W09, 5W10, 5W11, 5W31, 5X13, 5X14, 5X15, 5W20, 5X28, and 5N24 as regulated under RCW Chapter 90.48 and WAC Chapters 173-200 and 173-218, as amended;
- o. Permanent dewatering of the aquifer for new projects and redevelopment;
- p. Facilities that store, process, or dispose of radioactive substances; and
- q. Irrigation with graywater or reclaimed water.
- 2. Other land uses and activities that the City determines would pose a significant groundwater hazard to Group A and Group B groundwater supplies within the City limits, or would significantly reduce the recharge to aquifers currently or potentially used as a potable water source.
- C. Wellhead Protection Zone Performance Standards.
 - 1. Activities may only be permitted in a critical aquifer recharge area if the applicant can show that the proposed activity will not cause contaminants to enter the aquifer and that the proposed activity will not adversely affect the recharging of the aquifer.
 - 2. Any uses or activities which involve storing, handling, treating, using, producing, recycling, or disposing of hazardous materials or other deleterious substances shall comply with the following standards that apply to the wellhead protection zone in which they are located. Residential uses of hazardous materials or deleterious substances are exempt from the following standards.
 - 3. If a property is located in more than one wellhead protection zone, the Director of [XXX] shall determine which standards shall apply based on an assessment evaluation of the risk posed by the facility or activity. The assessment evaluation shall include, but not be limited to: (a) the location, type, and quantity of the hazardous materials or deleterious substances on the property; (b) the geographic and geologic characteristics of the site; and (c) the type and location of infiltration on the site.

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- 4. Development within Wellhead Protection Zones 1 or 2, and any facility or activity existing as of [XXX], within which hazardous materials or other deleterious substances are present, shall implement the following relevant performance standards:
 - a. Secondary Containment.
 - i. The owner or operator of any facility or activity shall provide secondary containment for hazardous materials or other deleterious substances in aggregate quantities equal to or greater than 20 gallons liquid or 200 pounds solid or in quantities specified in the Yakima Fire Code, YMC Chapter 10.05, whichever is smaller.
 - Hazardous materials stored in tanks that are subject to regulation by the Washington State Department of Ecology (Ecology) under WAC Chapter 173-360, Underground Storage Tank Regulations, are exempt from the secondary containment requirements of this section, provided that documentation is provided to demonstrate compliance with those regulations.
 - b. Vehicle Fueling, Maintenance, and Storage Areas. Fleet and automotive service station fueling, equipment maintenance, and vehicle washing areas shall have a containment system for collecting and treating all runoff from such areas and preventing release of fuels, oils, lubricants, and other automotive fluids into soil, surface water, or groundwater. Appropriate emergency response equipment and spill kits shall be kept on-site during transfer, handling, treatment, use, production, recycling, or disposal of hazardous materials or other deleterious substances.
 - c. Loading and Unloading Areas. Secondary containment or equivalent Best Management Practices (BMPs), as approved by the Director of Public Works, shall be required at loading and unloading areas that store, handle, treat, use, produce, recycle, or dispose of hazardous materials or other deleterious substances in aggregate quantities equal to or greater than 20 gallons liquid or 200 pounds solid.
 - d. Stormwater Infiltration Systems. Design and construction of new stormwater infiltration systems must address site-specific risks of releases posed by all hazardous materials on-site. These risks may be mitigated by physical design means or equivalent BMPs in accordance with an approved Hazardous Materials Management Plan. Design and construction of said stormwater infiltration systems shall also be in accordance with YMC Chapter 7.83 and the latest edition of the Stormwater Management Manual for Eastern Washington, approved local equivalent, or another technical stormwater manual approved by Ecology, and shall be certified for compliance with the requirements of this section by a professional engineer or engineering geologist registered in the State of Washington.
 - e. The record and construction details of any well regulated under Chapter 173-160 WAC, Construction and Maintenance of Wells, and any well excluded per WAC 173-160-010(2) that is constructed or decommissioned in Zones 1 and 2, shall be provided to the Department of [XXX] within 60 days of well completion or decommissioning.
 - f. Protection Standards During Construction. The following standards shall apply to construction activities occurring where construction vehicles will be refueled on-site and/or the quantity of hazardous materials that will be stored, dispensed, used, or handled on the construction site is in aggregate quantities equal to or greater than 20 gallons liquid or 200 pounds solid, exclusive of the quantity of hazardous materials contained in

fuel or fluid reservoirs of construction vehicles. As part of the City's project permitting process, the City may require any or all of the following items:

- i. A development agreement;
- ii. Detailed monitoring and construction standards;
- iii. Designation of a person on-site during operating hours who is responsible for supervising the use, storage, and handling of hazardous materials and who has appropriate knowledge and training to take mitigating actions necessary in the event of fire or spill;
- iv. Hazardous material storage, dispensing, refueling areas, and use and handling areas shall be provided with secondary containment adequate to contain the maximum release from the largest volume container of hazardous substances stored at the construction site;
- v. Practices and procedures to ensure that hazardous materials left on-site when the site is unsupervised are inaccessible to the public. Locked storage sheds, locked fencing, locked fuel tanks on construction vehicles, or other techniques may be used if they will preclude access;
- vi. Practices and procedures to ensure that construction vehicles and stationary equipment that are found to be leaking fuel, hydraulic fluid, and/or other hazardous materials will be removed immediately or repaired on-site immediately. The vehicle or equipment may be repaired in place, provided the leakage is completely contained;
- vii. Practices and procedures to ensure that storage and dispensing of flammable and combustible liquids from tanks, containers, and tank trucks into the fuel and fluid reservoirs of construction vehicles or stationary equipment on the construction site are in accordance with the Yakima Fire Code, YMC Chapter 10.05; and
- viii. Practices and procedures, and/or on-site materials adequate to ensure the immediate containment and cleanup of any release of hazardous substances stored at the construction site. On-site cleanup materials may suffice for smaller spills whereas cleanup of larger spills may require a subcontract with a qualified cleanup contractor. Releases shall immediately be contained, cleaned up, and reported if required under state or federal law. Contaminated soil, water, and other materials shall be disposed of according to state and local requirements.
- g. Fill Materials. Fill material shall comply with the standards in YMC Chapter 7.82 and the following:
 - i. Fill material shall not contain concentrations of contaminants that exceed cleanup standards for soil specified in WAC 173-340-740, Model Toxics Control Act, regardless of whether all or part of the contamination is due to natural background levels at the fill source site. Where the detection limit (lower limit at which a chemical can be detected by a specified laboratory procedure) for a particular soil contaminant exceeds the cleanup standard for soil specified in WAC 173-340-740, the detection limit shall be the standard for fill material quality.
 - ii. Fill materials in quantities greater than 10 cubic yards placed directly on or in the ground in excess of six months shall meet the following requirements:

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- 1. A fill material source statement shall be provided to the Department of [XXX] and shall be reviewed and accepted by the Department prior to stockpiling or grading imported fill materials at the site. The source statement shall be issued by a professional engineer, geologist, engineering geologist or hydrogeologist licensed in the State of Washington demonstrating the source's compliance with standards of the Model Toxics Control Act. The source statement shall be required for each different source location from which fill will be obtained.
- Analytical results demonstrating that fill materials do not exceed cleanup standards specified in WAC 173-340-740 may be used in lieu of a fill material source statement, provided the regulated facility submits a sampling plan to, and which is approved by, the Director of [XXX]. The regulated facility must then adhere to the approved sampling plan, and maintain analytical data on-site and available for inspection for a minimum of five years from the date that the fill was accepted.
- iii. The Department of [XXX] may accept a fill material source statement that does not include results of sampling and analysis of imported fill if it determines that adequate information is provided indicating that the source location is free of contamination. Such information may include, but is not limited to:
 - 1. Results of field testing of earth materials to be imported to the site with instruments capable of detecting the presence of contaminants; or
 - 2. Results of previous sampling and analysis of earth materials to be imported to the site.
- iv. A fill material source statement is not required if documents confirm that imported fill will be obtained from a Washington State Department of Transportation approved source.
- v. The Director of [XXX] shall have the authority to require corrective measures regarding noncompliant fill materials, including independent sampling and analysis, if the property owner or operator fails to accomplish such measures in a timely manner. The property owner or operator shall be responsible for any costs incurred by the City in the conduct of such activities.
- h. Cathodic Protection Wells. Cathodic protection wells shall be constructed such that the following do not occur.
 - i. Vertical cross-connection of aquifers normally separated by confining units;
 - ii. Migration of contaminated surface water along improperly sealed well borings or casings;
 - iii. Introduction of electrolytes or related solutions into the subsurface; and
 - iv. Any of the above conditions caused by improperly abandoned cathodic protection wells that are no longer in use.

- i. Underground Hydraulic Elevator Cylinders. All underground hydraulic elevator pressure cylinders shall be encased in an outer plastic casing constructed of Schedule 40 or thicker-wall polyethylene or polyvinyl chloride pipe, or equivalent. The plastic casing shall be capped at the bottom, and all joints shall be solvent- or heat-welded to ensure water tightness. The neck of the plastic casing shall provide a means of inspection to monitor the annulus between the pressurized hydraulic elevator cylinder and the protective plastic casing.
- j. Best Management Practices (BMPs). All development or redevelopment shall implement BMPs for water quality and quantity, as approved by the Director of [XXX], such as biofiltration swales and use of oil-water separators, BMPs appropriate to the particular use proposed, clustered development, and limited impervious surfaces.
- 5. Development within Wellhead Protection Zone 3 shall implement appropriate BMPs and comply with the performance standards for vehicle fueling, maintenance, and storage areas; loading and unloading areas; well construction and operation; fill materials; cathodic protection wells; and underground hydraulic elevator cylinders in applicable subsections in C.4 of this section.
- 6. Development within Wellhead Protection Zone 4 shall implement BMPs for water quality and quantity.
- 7. An incremental environmental improvement to a system protective of groundwater shall not alter, expand, or intensify an existing legal nonconformance, but may proceed without having to meet the following City codes:
 - a. Restrictions associated with critical areas and critical area buffers, if the footprint of the original system protective of groundwater is located within the same critical area buffer, and it can be demonstrated through BAS that there will be no significant adverse impacts to the critical area and its buffer;
 - b. Any requirement to bring all or any portion of the facility or the development it serves up to current building, fire, or land use codes that is triggered by the value or design of the incremental environmental improvement to a system protective of groundwater; and
 - c. The incremental improvement shall not qualify as a redevelopment that would otherwise be prohibited by Title 15 YMC.

15.27.315 Supplemental report requirements for specific critical areas. (Addition)

E. Critical Aquifer Recharge Areas. The approach of the City critical area regulations is to require a level of study and analysis commensurate with potential risks to wellhead protection zones associated with particular sites and particular proposals. At a minimum, all applicants shall review the history of the site and conduct a surface reconnaissance. The purpose of a critical aquifer recharge area report is to evaluate the actual geologic conditions and determine the site's proximity to or location within a wellhead protection zone; evaluate the safety and appropriateness of proposed activities; and recommend appropriate construction practices, monitoring programs, and other mitigation measures required to ensure achievement of the purpose and intent of these regulations. The information required by this report should be coordinated with the study and reporting requirements for any other critical areas located on the site. A critical aquifer recharge area report shall be prepared by a qualified professional who is a hydrogeologist, geologist, or engineer who is licensed in the State of Washington and who has experience in preparing hydrogeologic assessments.

Blue = Shoreline Consistency Green = WAC/RCW Consistency or WDFW/DOE Guidance Red = Outdated/No Longer Used or General Cleanup

Purple = BAS additional discussion

- 1. Level One Hydrological Assessment: At sites located within Wellhead Protection Zones 1 through 3, defined in Section 15.27.820.A.1, a critical aquifer recharge areas report shall contain a level one hydrological assessment which includes the following site- and proposal-related information at a minimum:
 - a. Information regarding geologic and hydrogeologic characteristics of the site, including the surface location of all critical aquifer recharge areas located on-site or immediately adjacent to the site, and permeability of the unsaturated zone based on existing data.
 - b. Groundwater depth, flow direction, and gradient based on available information.
 - c. Currently available data on wells and springs within 1,300 feet of the project area.
 - d. Location of other critical areas, including surface waters, within 1,300 feet of the project site.
 - e. Available historic water quality data for the area to be affected by the proposed activity.
 - f. BMPs proposed to be utilized.
- 2. Level Two Hydrogeologic Assessment.
 - a. A level two hydrogeologic assessment shall be required for any of the following proposed activities at sites located within Wellhead Protection Zones 1 through 3:
 - i. Activities that result in 5,000 square feet or more impervious site area.
 - ii. Activities that divert, alter, or reduce the flow of surface or groundwaters, including dewatering or otherwise reduce the recharging of the aquifer.
 - iii. The storage, handling, treatment, use, production, recycling, or disposal of deleterious substances or hazardous materials, other than household chemicals used according to the directions specified on the packaging for domestic applications.
 - iv. The use of injection wells, including on-site septic systems, except those domestic septic systems releasing less than 14,500 gallons of effluent per day and that are limited to a maximum density of one system per one acre.
 - v. Any other activity determined by the Director of [XXX] likely to have an adverse impact on groundwater quality or quantity, or on the recharge of the aquifer.
 - b. A level two hydrogeologic assessment shall include the following site and proposal-related information at a minimum, in addition to the requirements for a level one hydrogeological assessment:

Purple = BAS additional discussion

- i. Historic water quality and elevation data for the area to be affected by the proposed activity compiled for at least the previous five-year period.
- ii. Groundwater monitoring plan provisions.
- iii. Discussion of the effects of the proposed project on the groundwater quality and quantity, including:
 - 1. Predictive evaluation of groundwater withdrawal effects on nearby wells and surface water features.
 - 2. Predictive evaluation of contaminant transport based on potential releases to groundwater.
- iv. Identification of the type and quantities of any deleterious substances or hazardous materials that will be stored, handled, treated, used, produced, recycled, or disposed of on the site, including but not limited to materials, such as elevator lift/hydraulic fluid, hazardous materials used during construction, materials used by the building occupants, proposed storage and manufacturing uses, etc.
- v. Proposed methods of storing any of the above substances, including containment methods to be used during construction and/or use of the proposed facility.
- vi. Proposed plan for implementing YMC 15.27.820.C.3.f, *Protection Standards During Construction*.
- vii. A spill plan that identifies equipment and/or structures that could fail, resulting in an impact. Spill plans shall include provisions for regular inspection, repair, and replacement of structures and equipment that could fail.
- viii. A complete discussion of past environmental investigations, sampling, spills, or incidents that may have resulted in or contributed to contaminated soil or groundwater at the site. Attach copies of all historical and current reports, and sampling results.

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AUTHOR QUALIFICATIONS

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Chris Allen is a Senior Hydrogeologist for Shannon & Wilson, Inc. He is licensed in Washington State as a geologist and hydrogeologist and has a Bachelor of Science degree in Geology from Western Washington University. Over the last 18 years, he has focused on hydrogeologic and geotechnical projects. His experience includes drilling, design, construction, development, assessment and maintenance of wells, storm water infiltration studies, and critical aquifer recharge area (CARA) assessments, all of which require a knowledge of a variety of regulations from the city to the federal level. In the Yakima area, he's been involved in multiple projects requiring hydrogeologic assessments including for the City of Moxee and City of Selah, Costco Union Gap, and roadway/railway grade separation projects involving dewatering.

Katie Walter is the Natural Resources Group Leader at Shannon & Wilson, Inc. and has a Bachelor of Science degree from the University of Washington in Botany. She has 26 years of experience conducting wetland delineations, developing mitigation plans, conducting natural resource inventories, and permitting large complex multi-jurisdictional projects.

Jim Bailey is a Senior Hydrogeologist with Shannon & Wilson, Inc. He has a Bachelor of Science degree in Biology from the University of North Carolina, and a Master of Science in Hydrogeology from Washington State University. He is a licensed geologist and hydrogeologist with more than 26 years of experience. He specializes in water supply development and groundwater management experience, with a focus on municipal water supply including water rights, well design/construction, and evaluation of well performance issues.

Appendix D

City of Yakima

2017 GMA Updates

YMC Chapter 14.20.160 SUBDIVISION	2
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YMC Chapter 14.20.160 SUBDIVISION

14.20.160 Preliminary Plat-Expiration of approval-Extension-Conditions.

A. Approval of preliminary plats of proposed subdivisions shall expire five years in accordance with the timelines <u>below</u> from the date of city council approval thereof. The council shall, upon written application of the subdivision applicant at least 30 days prior to such expiration, grant an extension for a maximum period of one year upon a showing that the applicant has attempted in good faith to submit the final plat within the five year periodsubmission timeline. The timeline to submit a final plat is as follows:

- 1. Seven (7) years if the date of preliminary plat approval is on or before December 31, 2014.
- 2. Five (5) years if the date of preliminary plat approval is on or after January 1, 2015.
- 3. Ten (10) years if the project is located within city limits, not subject to the shoreline management act, and the preliminary plat is approved on or before December 31, 2007.

YMC Chapter 15.06 OFF STREET PARKING AND LOADING

15.06.035 Electric Vehicle Charging Stations.

A. Electric Vehicle Charging Stations, as defined by RCW 36.70A.695(5), or as amended, shall be allowed as follows, except for on resource lands or in critical areas:

- 1. An accessory use to an approved principal use in the B-1, B-2, HB, SCC, LCC, CBD, GC, M-1, M-2, RD, and AS zoning districts.
- 2. As a right-of-way use permit in public parking lots and/or on-street public parking areas.

YMC Chapter 15.27 CRITICAL AREAS

Part Five. Fish and Wildlife Habitat and the Stream Corridor SystemConservation Areas

Article IV. Water Dependency Development Standards and Buffer Requirements

15.27.510 Use classifications.

- 15.27.511 Water dependent uses.
- 15.27.512 Water related uses.
- 15.27.513 Non water oriented uses.
- 15.27.5140 Vegetative buffers.

Article V. Land Modification Development Standards

- 15.27.51<u>51</u> Roads, railroads, and parking.
- 15.27.5162 Utility transmission lines and facilities.
- 15.27.517<u>3</u> Shore-Bank stabilization.
- 15.27.5184 Dredging and excavation.

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15.27.52016 Commercial mining of gravel.

 $15.27.5 \pm 17$ Reclamation.

15.27.120 Purpose of chapter.

The purpose of this chapter is to establish a single, uniform system of procedures and standards for development within designated critical areas <u>outside of shoreline jurisdiction</u> within the incorporated city of Yakima-and its urban growth area. (Ord. 2008-46 § 1 (part), 2008).

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15.27.130 Intent of chapter.

A. This chapter establishes policies, standards, and other provisions pertaining to development within designated critical areas regulated under the provisions of the Growth Management Act (RCW 36.70A) and development regulated under the National Flood Insurance Program. Flood hazard areas, fish and wildlife habitat conservation areas, wetlands, geologically hazardous areas, and Wetlands, streams, stream corridors and rivers; areas with a critical recharging effect on aquifers used for potable water; fish and wildlife habitat conservation areas; frequently flooded areas; and geologically hazardous areas constitute the city of Yakima's critical areas pursuant to WAC 365-190-030. These areas are of special concern to the people of the city of Yakima and the state of Washington because they are environmentally sensitive lands, or hazardous areas, which comprise an important part of the state's natural resource base. The policies, standards, and procedures of this chapter are intended to:

1. Preserve development options within designated critical areas where such development will result in the level of "no net loss" of the functions and values of the critical areas;

2. Where appropriate, avoid uses and development which are incompatible with critical areas;

3. Prevent further degradation of critical areas unless the degradation has occurred beyond feasible protection;

4. Conserve and protect essential or important natural resources;

5. Protect the public health, safety, and general welfare;

6. Further the goals and policies of the <u>2017-Comprehensive Plan 2040</u>Yakima urban area comprehensive plan;

7. Implement the goals and requirements of the Washington Growth Management Act (RCW 36.70A), and the National Flood Insurance Program (CFR Title 42);

8. Recognize and protect private property rights; and

9. Provide development options for landowners of all existing lots to the greatest extent possible, through the establishment of adjustment, reasonable use, and nonconforming use and facility provisions.

B. The policies, standards and procedures of this chapter are not intended to:

1. Regulate the operation and maintenance of existing, legally established uses and structures, including but not limited to vegetative buffers on existing uses that have been reduced in width prior to the effective date of this chapter;

2. Result in an unconstitutional regulatory taking of private property;

3. Require the restoration of degraded critical areas for properties in a degraded condition prior to the effective date of this chapter, unless improvement of the buffer is needed for new development proposed on the property;

- 4. Presume that regulatory tools are the only mechanism for protection; or
- 5. Prohibit the use of valid water rights. (Ord. 2008-46 § 1 (part), 2008).

15.27.140 Applicability.

A. The provisions of this chapter shall apply to any new development, construction, or use within the incorporated portion of the city of Yakima, <u>outside of shoreline jurisdiction</u>, <u>and its urban growth area</u> designated as a critical area and upon any land mapped and designated as a special flood hazard area under the National Flood Insurance Program. However, this chapter does not apply to the situations below, except that the flood hazard protection provisions of Part Four of this chapter will continue to apply as determined by YMC 15.27.400 through 15.27.406:

1. Within designated critical areas, there may exist lots, structures, and/or uses which were lawfully established prior to the adoption of this chapter, as provided below, but which would be subsequently prohibited, regulated, or restricted under this chapter. Such existing lots, structures, and/or uses shall be classified as legally nonconforming uses.

2. It is the intent of this chapter to permit these pre-existing legally nonconforming uses and structures to continue until such time as conformity is possible:

a. Critical areas on federally owned lands are not subject to the provisions of this chapter;

b. Minor, temporary, or transient activities (including those of a recreational nature) that do not alter the environment or require a dedicated staging area, use area, or route (including temporary signs) are not subject to this chapter;

c. Mining, as defined in YMC 15.27.200, which is carried out under a Washington Department of Natural Resources reclamation permit is not subject to the geologically hazardous areas provisions of this chapter for erosion hazard areas, oversteepened slope hazard areas, landslide hazard areas and suspected geologic hazard areas. Other critical areas provisions continue to apply.

B. The adoption and amendment dates of the relevant regulations are provided below:

1. Critical areas ordinance adopted 1998;

2. Flood hazard ordinance adopted 1981; and

3. Other rules and regulations, including the city of Yakima subdivision ordinance (YMC Title 14), the city of Yakima urban area zoning ordinance (YMC Title 15), and the buildings ordinance (YMC Title 11), shall remain in full force and effect as they apply to a designated critical area. Wherever the requirements of this chapter conflict with the requirements of the Yakima urban area zoning ordinance, the subdivision ordinance or any other lawfully adopted municipal rules or regulations, the most restrictive standards shall apply. (Ord. 2008-46 § 1 (part), 2008).

15.27.200 Definitions generally.

Definitions listed in Part Two of this chapter shall be applied to the regulation, review, and administration of all critical areas, including flood hazard areas, unless the definition itself identifies the term as applying to flood hazard administration, in which case the definition only applies to that situation.

<u>"Bank stabilization" means the construction or modification of bulkheads, retaining walls, dikes, levees, riprap, breakwaters, jetties, groins, weirs, and other structures along a bank, for the purpose of controlling stream undercutting or bank erosion.</u>

"Breakwater" means a fixed or floating off shore<u>in-water</u> structure that protects the <u>shore-bank</u> from the forces of waves or currents.

"Bulkhead" means a vertical or nearly vertical erosion protection structure placed parallel to the <u>shore-bank</u> consisting of concrete, timber, steel, rock, or other permanent material not readily subject to erosion.

"Fill" means the addition of any material, such as (by way of illustration) earth, clay, sand, rock, gravel, concrete rubble, rubble, wood chips, bark, or waste of any kind, which is placed, stored or dumped upon the surface of the ground resulting in an increase in the natural surface elevation. The physical structure of a <u>bankshore</u> stabilization structure shall not be considered fill. However, fill placed behind the structure is considered fill. Stream bed manipulation for irrigation diversions shall not be considered fill.

"Fish and wildlife habitat conservation" means land management for maintaining populations of species in suitable habitats within their natural geographic distribution so that the habitat available is sufficient to support viable populations over the long term and isolated subpopulations are not created. This does not mean maintaining all individuals of all species at all times, but it does mean not degrading or reducing populations or habitats so that they

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 4/69 are no longer viable over the long term. Counties and cities should engage in cooperative planning and coordination to help assure long term population viability.

"Fish and wildlife habitat conservation areas" are areas that serve a critical role in sustaining needed habitats and species for the functional integrity of the ecosystem, and which, if altered, may reduce the likelihood that the species will persist over the long term. These areas may include, but are not limited to, rare or vulnerable ecological systems, communities, and habitat or habitat elements including seasonal ranges, breeding habitat, winter range, and movement corridors; and areas with high relative population density or species richness. Counties and cities may also designate locally important habitats and species. Fish and wildlife habitat conservation areas does not include such artificial features or constructs as irrigation delivery systems, irrigation infrastructure, irrigation canals, or drainage ditches that lie within the boundaries of, and are maintained by, a port district or an irrigation district or company.

"Habitats of local importance" are designated as fish and wildlife habitat conservation areas based on a finding by the city that they are locally important.

<u>"Hydrologically related critical areas (HRCA)" include all those areas identified in YMC 15.27.502, which are important and deserving of protection by nature of their value for the functional properties found in YMC 15.27.504.</u>

"Ordinary high water mark" means a mark on lakes and streams which can be found by examining the bed and banks and ascertaining where the presence and action of waters are <u>so</u> common and usual, and so long continued in ordinary years as to <u>mark upon the soil or vegetation a create a character mark upon the soil distinct from that of the</u> abutting upland. <u>Provided, that in any area where the ordinary high water line cannot be found, the ordinary high water line is the elevation of the mean annual flood.</u>

"Perennial stream" means a stream that flows year-round in normal water years.

"Priority habitat" means a habitat type with unique or significant value to one or more species. An area classified and mapped as priority habitat must have one or more of the following attributes: comparatively high fish or wildlife density, comparatively high fish or wildlife species diversity, fish spawning habitat, important wildlife habitat, important fish or wildlife seasonal range, important fish or wildlife movement corridor, rearing and foraging habitat, refuge, limited availability, high vulnerability to habitat alteration, unique or dependent species, or shellfish bed. A priority habitat may be described by a unique vegetation type or by a dominant plant species that is of primary importance to fish and wildlife. A priority habitat may also be described by a successional stage. Alternatively, a priority habitat may consist of a specific habitat element (such as talus slopes, caves, or snags) of key value to fish and wildlife. A priority habitat may contain priority and/or nonpriority fish and wildlife.

"Priority species" means species requiring protective measures and/or management guidelines to ensure their persistence at genetically viable population levels. Priority species are those that meet any of the criteria listed below:

- A. Washington State (State) Listed or State Proposed Species. State-listed species are those native fish and wildlife species legally designated as endangered (WAC 232-12-014), threatened (WAC 232-12-011), or sensitive (WAC 232-12-011). State proposed species are those fish and wildlife species that will be reviewed by WDFW (POL-M-6001) for possible listing as endangered, threatened, or sensitive according to the process and criteria defined in WAC 232-12-297.
- B. Vulnerable Aggregations. Vulnerable aggregations include those species or groups of animals susceptible to significant population declines, within a specific area or statewide, by virtue of their inclination to congregate.
- C. Species of Recreational, Commercial, and/or Tribal Importance. Native and nonnative fish, shellfish, and wildlife species of recreational or commercial importance and recognized species used for tribal ceremonial and subsistence purposes that are vulnerable to habitat loss or degradation.
- D. Species listed under the federal Endangered Species Act as either proposed, threatened, or endangered.

"Restore" means to re establish the basic functional properties listed in YMC 15.27.504 that have been lost or destroyed through natural events or human activity with measures such as revegetation and removal or treatment of toxic materials.

"Restoration" does not imply a requirement for returning the site to aboriginal or pre European settlement conditions; but rather the return of a critical area with vegetation and addressing of any toxic materials from the date of the permit.

"Restore," "restoration" or "ecological restoration" means the reestablishment or upgrading of impaired functions, such as those listed in YMC 15.27.504 that have been lost or destroyed through natural events or human activity. This may be accomplished through measures including, but not limited to, revegetation, removal of intrusive structures, and removal or treatment of toxic materials. Restoration does not imply a requirement for returning the site to aboriginal or pre-European settlement conditions.

"Revetment" means a facing placed on a bank or bluff to protect a slope, embankment, or shore-structure against erosion by wave action or currents.

"Scour" means the removal of underwater material by waves and currents, especially at the base or toe of a shore bank stabilization or other in-water structure.

"Shoreline," as used in this chapter, means those water areas, the associated features, and the land areas that are subject to the State Shoreline Management Act, as defined in RCW 90.58.030 and the city of Yakima's current shoreline master program (definitionsYMC 17.01.090).

"Shore stabilization" means the construction or modification of bulkheads, retaining walls, dikes, levies, riprap, breakwaters, jetties, groins, weirs, and other structures along the shore, for the purpose of controlling stream undercutting, stream erosion or lake shore erosion.

<u>""Species of local importance</u>" are those species that are of local concern due to their population status or their sensitivity to habitat alteration or that are game species.

"Stream corridor," as used in this chapter, means features listed and described in YMC 15.27.502.

"Vegetative buffer" or "buffer" means an area extending landward from the ordinary high water mark of a lake or stream and/or from the edge of a wetland which is maintained or otherwise allowed to provide support for the performance of the basic functional properties of a <u>fish and wildlife habitat conservation area and stream corridor</u>, wetland and other hydrologically related critical areas as set forth in YMC 15.27.504 and 15.27.603.

"Waters of the state" are all lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

15.27.301 Critical area identification form and critical area report requirements.

E. The administrative official or designee shall base wetland boundary determinations on those criteria specified in the Washington State Wetlands Identification and Delineation Manual (1997). Wetland mitigation adequacy determination by the administrative official shall be consistent with Wetland Mitigation in Washington State, Parts 1 and 2 (March 2006 or as updated). (Ord. 2008 46 § 1 (part), 2008).

15.27.303 Minor activities allowed without a permit or exemption.

D. Creation of private trails <u>that are less than two feet wide</u> that do not cross streams or wetlands that are less than two feet wide and do not involve placement of fill or grubbing of vegetation;

G. Noxious weed control outside vegetative buffers identified in YMC 15.27.5141; and

15.27.304 Documented exemption—Procedural requirements.

F. The proponent of an exempt activity shall submit a written request for a documented exemption which states the following:

1. Why the exemption is being sought.

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- 2. A project description that demonstrates the following:
 - a. The sequence of activities to be conducted;
 - b. The equipment to be used (hand or mechanical);
 - c. The best management practices to be used;
 - d. The efforts employed to minimize adverse impacts; and

e. Restoration for disturbed areas <u>and mitigation for lost critical areas functions</u> following the activity, including mitigation for lost wetland functions.

15.27.305 Documented exemptions for hydrologically related critical fish and wildlife habitat conservation areas and wetlands.

E. Construction of a dock in a non-shoreline waterbody for the use of a single-family or multiple-family residence;

K. A public or private project to improve fish or wildlife habitat or fish passage in a non-shoreline waterbody, if:

15.27.307 Mitigation requirements.

D. If an alteration to a critical area is unavoidable, all adverse impacts to that critical area and its buffers shall be mitigated for in accordance with an approved mitigation plan and mitigation for wetland impacts shall be mitigated in accordance with the Washington State Department of Ecology Wetland Mitigation in Washington State, Parts 1 and 2 (March 2006 or as updated); and

E. <u>Except as specified in YMC 15.27.605</u>, <u>Mm</u>itigation shall be in-kind and on-site, whenever possible, and may be out-of-kind and/or off-site when deemed appropriate by the administrative official or designee. (Ord. 2008-46 § 1

Article V. Critical Areas Reports

15.27.314 Critical areas report requirements.

M. Compensatory Mitigation Plans. When compensatory mitigation, as described in YMC 15.27.307, is proposed for wetlands or fish and wildlife habitat conservation areas or stream channels, the applicant shall submit a mitigation plan as part of the critical area report, which includes:

15.27.315 Supplemental report requirements for specific critical areas.

A. <u>Fish and Wildlife Habitat Conservation AreasStream Corridors</u>. When a critical areas report is required for a <u>fish and wildlife habitat conservation areastream corridor or hydrologically related critical area</u>, it shall include the following:

3. A discussion of any federal, state or local management recommendations which have been developed for the species or habitats in the area, and how they will be incorporated into the project.

B. Wetlands. When a critical areas report is required for wetlands, it shall include the following:

1. The exact location of a wetland's boundary and wetland rating as determined through the performance of a field investigation by a qualified wetland professional applying the <u>approved federal wetland delineation</u> <u>manual and applicable regional supplementsWashington State Wetland Identification and Delineation Manual (Ecology Publication No. 96-94)</u> as required by RCW 36.70A.175 and the <u>most recent version of the</u> Washington State Wetland Rating System for Eastern Washington;

E.— Critical Aquifer Recharge Areas. The approach of the City critical area regulations is to require a level of study and analysis commensurate with potential risks to wellhead protection zones associated with particular sites and particular proposals. At a minimum, all applicants shall review the history of the site and conduct a surface reconnaissance. The purpose of a critical aquifer recharge area report is to evaluate the actual geologic conditions and determine the site's proximity to or location within a wellhead protection zone; evaluate the safety and appropriateness of proposed activities; and recommend appropriate construction practices, monitoring programs, and

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 7/69 other mitigation measures required to ensure achievement of the purpose and intent of these regulations. The information required by this report should be coordinated with the study and reporting requirements for any other critical areas located on the site. A critical aquifer recharge area report shall be prepared by a qualified professional who is a hydrogeologist, geologist, or engineer who is licensed in the State of Washington and who has experience in preparing hydrogeologic assessments.

1. Level One Hydrological Assessment: At sites located within Wellhead Protection Zones 1 through 3, defined in Section 15.27.820.A.1, a critical aquifer recharge areas report shall contain a level one hydrological assessment which includes the following site- and proposal-related information at a minimum:

a. Information regarding geologic and hydrogeologic characteristics of the site, including the surface location of all critical aquifer recharge areas located on-site or immediately adjacent to the site, and permeability of the unsaturated zone based on existing data.

b. Groundwater depth, flow direction, and gradient based on available information.

c. Currently available data on wells and springs within 1,300 feet of the project area.

d. Location of other critical areas, including surface waters, within 1,300 feet of the project site.

e. Available historic water quality data for the area to be affected by the proposed activity.

f. BMPs proposed to be utilized.

2.— Level Two Hydrogeologic Assessment.

a. A level two hydrogeologic assessment shall be required for any of the following proposed activities at sites located within Wellhead Protection Zones 1 through 3:

i. Activities that result in 5,000 square feet or more impervious site area.

ii. Activities that divert, alter, or reduce the flow of surface or groundwaters, including dewatering or otherwise reduce the recharging of the aquifer.

<u>iii.</u> The storage, handling, treatment, use, production, recycling, or disposal of deleterious substances or hazardous materials, other than household chemicals used according to the directions specified on the packaging for domestic applications.

iv. The use of injection wells, including on-site septic systems, except those domestic septic systems releasing less than 14,500 gallons of effluent per day and that are limited to a maximum density of one system per one acre.

v. Any other activity determined by the Director of Community Development likely to have an adverse impact on groundwater quality or quantity, or on the recharge of the aquifer.

b. A level two hydrogeologic assessment shall include the following site and proposal-related information at a minimum, in addition to the requirements for a level one hydrogeological assessment:

i. Historic water quality and elevation data for the area to be affected by the proposed activity compiled for at least the previous five-year period.

ii. Groundwater monitoring plan provisions.

iii. Discussion of the effects of the proposed project on the groundwater quality and quantity, including:

(a) Predictive evaluation of groundwater withdrawal effects on nearby wells and surface water features.

(b) Predictive evaluation of contaminant transport based on potential releases to groundwater.

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 8/69 iv. Identification of the type and quantities of any deleterious substances or hazardous materials that will be stored, handled, treated, used, produced, recycled, or disposed of on the site, including but not limited to materials, such as elevator lift/hydraulic fluid, hazardous materials used during construction, materials used by the building occupants, proposed storage and manufacturing uses, etc.

v. Proposed methods of storing any of the above substances, including containment methods to be used during construction and/or use of the proposed facility.

vi. Proposed plan for implementing YMC 15.27.820.C.3.f, *Protection Standards During* <u>Construction.</u>

vii. A spill plan that identifies equipment and/or structures that could fail, resulting in an impact. Spill plans shall include provisions for regular inspection, repair, and replacement of structures and equipment that could fail.

<u>viii.</u> A complete discussion of past environmental investigations, sampling, spills, or incidents that may have resulted in or contributed to contaminated soil or groundwater at the site. Attach copies of all historical and current reports, and sampling results.

15.27.317 Adjustment.

A. Classification Criteria. For projects not required to be processed under RCW Chapter 90.58 (Shoreline Management Act) and Title 17 YMC (Shoreline Master Program Regulations), the administrative official or designee is authorized to administratively adjust the development standards. Existing structures, parcel size, property boundaries, and other constraints may preclude conformance with building setbacks and vegetative buffers. Given such constraints, administrative adjustments may be authorized where the site plan and project design include measures to ensure the protection and performance of the functional properties identified in YMC 15.27.504. Adjustments of vVegetative buffer standards listed in Tables 27.5 1 and 27.5 2 may be reduced to the minimum buffer width listed provided in YMC 15.27.510 and 15.27.604. Reductions below the minimum may be considered but require stricter criteria be met in subsection (C)(4) of this section. Adjustments to prohibited use limits are not allowed.

C. Decision Criteria. Decisions on adjustment permits shall be based on the general decision criteria found in YMC 15.27.311 together with the criteria below.

f. The use of buffer averaging or buffer enhancement plans by the applicant using native vegetation or other measures to enhance the functions and values of the <u>hydrologically related critical area (HRCA).fish</u> and wildlife habitat conservation area or wetland.

3. When granting an adjustment, the administrative official or designee may require, but is not limited to, the following alternative measures to protect the functions and values of the <u>fish and wildlife habitat conservation</u> area or wetlandHRCA:

a. Restoration of impaired channels and banks to conditions which support natural stream flows, fish habitat, and other values;

b. Restoration, enhancement, and preservation of soil characteristics and the quantity and variety of native vegetation;

c. Provisions for erosion control and the reduction and filtration of stormwater runoff <u>on-into</u> the <u>fish and</u> <u>wildlife habitat conservation area, wetland, orstream channel and</u> buffer;

d. Removal or alteration of existing manmade facilities associated with stream channels or drainage ways which improve stream flow or exchange of surface waters;

e. Replacement of lost <u>fish and wildlife habitat conservation area and wetland functions and</u> <u>valuesstream corridor features on an acre for acre basis and replacement of lost wetlands in accordance</u> with <u>guidance provided in the Washington State Department of Ecology's Wetland Mitigation in</u> <u>Washington State, Parts 1 and 2 (March 2006 or as updated)best available science;</u>

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 9/69 f. Conservation easements for key portions of <u>fish and wildlife habitat conservation areas, wetland, or</u> <u>buffers stream corridor property</u> and/or their inclusion within public or private conservation programs; or

g. Vegetative buffer averaging may be modified by averaging buffer widths. Buffer averaging is preferred in the use of mitigation sequencing (YMC 15.27.307) over a reduction in the buffer standards.

4. The following additional criteria must be met to reduce the critical areas stream and wetland buffers found in Tables 27.5-1 and 27.5-2 below the minimum listed identified in YMC 15.27.510 and 15.27.604 in the respective tables:

15.27.401 Principles.

Part Four recognizes the right and need of the river and stream channels to periodically carry more than the normal flow of water and establishes regulations to minimize loss of life and property, restrict uses and regulate structures consistent with the degree of flood hazard. In advancing the above principles, the intent of Part Four is:

Article III. Floodway Fringe Uses

15.27.409 Permitted uses.

The following uses are permitted in the floodway fringe areas:

A. <u>Permitted Uses.</u> Any use permitted in the zoning district in accordance with this title, unless prohibited by YMC 15.27.410<u>:-</u> provided, that said use is in compliance with the flood hazard protection standards of YMC 15.27.407 and 15.27.408 and other applicable provisions of this chapter and will have a negligible effect upon the floodway in accordance with the floodway encroachment provisions of YMC 15.27.412(B);

B. All new encroachments, including fill, new construction and other development, if certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall not materially cause water to be diverted upland of the established floodway fringe, cause erosion, obstruct the natural flow of water, reduce the carrying capacity of the floodway, or result in any increase in flood levels during the occurrence of the base flood discharge;

C. All new encroachments, including fill, new construction and other development, if:

1. The new encroachment is separated from the waterbody by an existing public roadway or legal development.

2. The new encroachment is located in a residential zone with a density of greater than 1 unit per acre.

BD. Utility Transmission Lines. Utility transmission lines shall be permitted when consistent with this title and where not otherwise inconsistent with Part Four of this chapter; except that when the primary purpose of such a transmission line is to transfer bulk products or energy through a floodway fringe or special flood hazard area, such transmission line shall conform to the following:

1. Electric transmission lines shall cross floodway fringe and special flood hazard areas by the most direct route feasible. When support towers must be located within floodway fringe or special flood hazard areas, they shall be placed to avoid high floodwater velocity and/or depth areas, and shall be adequately floodproofed.

2. Buried utility transmission lines transporting hazardous materials, including but not limited to crude and refined petroleum products and natural gas, shall be buried a minimum of four feet. Such burial depth shall be maintained within the floodway fringe or special flood hazard area to the maximum extent of potential channel migration as determined by hydrologic analyses. All such hydrologic analyses shall conform to requirements of YMC 15.27.411(CD)(3).

3. Beyond the maximum extent of potential channel migration, utility transmission lines transporting hazardous and nonhazardous materials shall be buried below existing natural and artificial drainage features.

4. Aboveground utility transmission lines, not including electric transmission lines, shall only be allowed for the transportation of nonhazardous materials. In such cases, applicants must demonstrate that line placement

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 10/69 will have no appreciable effect upon flood depth, velocity or passage. Such lines shall be adequately protected from flood damage.

5. Aboveground utility transmission line appurtenant structures, including valves, pumping stations or other control facilities, shall not be permitted in floodway fringe or special flood hazard areas except where no other alternative is available, or in the event a floodway fringe or special flood hazard location is environmentally preferable. This does not apply to domestic water and regional wastewater transmission pipes. In such instances, aboveground structures shall be located so that no appreciable effect upon flood depth, velocity or passage is created, and shall be adequately floodproofed. (Ord. 2008-46 § 1 (part), 2008).

E. Any use permitted in the zoning district in accordance with this title, unless prohibited by YMC 15.27.410, that is unable to adhere to the standards contained in YMC 15.27.409(A-D) above may be permitted if a study is prepared by a qualified professional, in accordance with YMC 15.27.314, that addresses whether the encroachment would have an adverse impact on fish and wildlife and/or floodplain functions.

15.27.410 Prohibited uses.

The following uses are prohibited in the floodway fringe areas:

A. Any structure, including manufactured homes and the expansion of manufactured home/parks, designed for or to be used for human habitation of a permanent nature (including temporary dwellings authorized by YMC 15.04.130 and 15.04.140) that does not meet the criteria in YMC 15.27.409(A-E);

New manufactured home parks and the expansion of manufactured home/parks are prohibited in floodway fringe areas. (Ord. 2008 46 § 1 (part), 2008).

B. Any encroachments, including fill, new construction and other development, unless certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall not materially cause water to be diverted upland of the established floodway fringe, cause erosion, obstruct the natural flow of water, reduce the carrying capacity of the floodway, or result in any increase in flood levels during the occurrence of the base flood discharge;

C. Construction or Reconstruction of residential structures within the designated floodway fringe, except for:

1. Repairs, reconstruction, or improvements to a structure which do not increase the ground floor area; and

2. Repairs, reconstruction or improvements to a structure, the cost of which does not exceed fifty percent of the assessed value of the structure either:

a. Before the repair, reconstruction or improvement is started; or

b. If the structure has been damaged and is being restored, before the damage occurred.

3. Work done on structures to correct existing violations of existing health, sanitary or safety codes, or to structures identified as historic places, shall not be included in the fifty percent.

4. If subsection B of this section is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Part Four.

Article IV. Floodway Uses

15.27.411 Permitted uses.

The following uses are permitted in the floodway areas:

<u>A.</u> Any use permitted in the zoning district in accordance with this title; provided, that said use is in compliance with the flood hazard protection standards of YMC 15.27.407 and 15.27.408 and other applicable provisions of this chapter and will have a negligible effect upon the floodway in accordance with the floodway encroachment provisions of YMC 15.27.412(B). Permitted uses include:

AB. All <u>new</u> encroachments, including fill, new construction and other development <u>unless, if</u> certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall not materially cause water to be diverted from the established floodway, cause erosion, obstruct the natural flow of water, reduce the carrying capacity of the floodway, or result in any increase in flood levels during the occurrence of the base flood discharge;

B<u>C</u>. Surface mining; provided, that the applicant can provide clear evidence that such uses will not divert flood flows causing channel-shift or erosion, accelerate or amplify the flooding of downstream flood hazard areas, increase the flooding threat to upstream flood hazard areas, or in any other way threaten public or private properties. When allowed, such removal shall comply with the provisions of this title;

CD. Utility transmission lines, unless otherwise prohibited by this chapter; except that when the primary purpose of such a transmission line is to transfer bulk products or energy through a floodway en route to another destination, as opposed to serving customers within a floodway, such transmission lines shall conform to the following:

1. All utility transmission lines shall cross floodways by the most direct route feasible, as opposed to paralleling floodways;

2. Electric transmission lines shall span the floodway with support towers located in flood fringe areas or beyond. Where floodway areas cannot be spanned due to excessive width, support towers shall be located to avoid high floodwater velocity and/or depth areas, and shall be adequately floodproofed;

3. Buried utility transmission lines transporting hazardous and nonhazardous materials, including but not limited to crude and refined petroleum products and natural gas, shall be buried a minimum of four feet below the maximum established scour of the waterway, as calculated on the basis of hydrologic analyses. Such burial depth shall be maintained horizontally within the hydraulic floodway to the maximum extent of potential channel migration as determined by hydrologic analyses. In the event potential channel migration extends beyond the hydraulic floodway, conditions imposed upon floodway fringe and special flood hazard areas shall also govern placement. All hydrologic analyses are subject to acceptance by the city of Yakima, which shall assume the conditions of a one-hundred-year frequency flood as verified by the U.S. Army Corps of Engineers, and shall include on-site investigations and consideration of historical meander characteristics in addition to other pertinent facts and data. The use of riprap as a meander containment mechanism within the hydraulic floodway shall be consistent with the city of Yakima shoreline master program regulations;

4. Beyond the maximum extent of potential channel migration, utility transmission lines transporting hazardous and nonhazardous materials shall be buried below existing natural and artificial drainage features; and

5. Aboveground utility transmission lines, not including electric transmission lines, shall only be allowed for the transportation of nonhazardous materials where an existing or new bridge or other structure is available and capable of supporting the line. When located on existing or new bridges or other structures with elevations below the one-hundred-year flood level, the transmission line shall be placed on the downstream side and protected from flood debris. In such instances, site-specific conditions and flood damage potential shall dictate placement, design and protection throughout the floodway. Applicants must demonstrate that such aboveground lines will have no appreciable effect upon flood depth, velocity or passage, and shall be

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 12/69 adequately protected from flood damage. If the transmission line is to be buried except at the waterway crossing, burial specifications shall be determined as in subsection (C)(3) of this section;

DE. Construction or reconstruction of residential structures only as authorized in YMC 15.27.412(E);

<u>EF</u>. Improvements to existing residential structures that are not substantial improvements per YMC 15.27.200, provided the improvement complies with the requirement set forth in YMC 15.27.412(B);

FG. Water-dependent utilities and other installations which by their very nature must be in the floodway. Examples of such uses are: dams for domestic/industrial water supply; wastewater treatment and collection systems; stream crossings or wetlands; flood control and/or hydroelectric production; water diversion structures and facilities for water supply; irrigation and/or fisheries enhancement; floodwater and drainage pumping plants and facilities; hydroelectric generating facilities and appurtenant structures; and structures and nonstructural uses and practices; provided, that the applicant shall provide evidence that a floodway location is necessary in view of the objectives of the proposal; and provided further, that the proposal is consistent with other provisions of this chapter-and the city's shoreline master program. In all instances of locating utilities and other installations in floodway locations, project design must incorporate floodproofing and otherwise comply with subsection **C**-**D** of this section; and,

G. Dikes; provided, the applicant can provide evidence that:

1. Adverse effects upon adjacent properties will not result relative to increased floodwater depths and velocities during the base flood or other more frequent flood occurrences;

2. Natural drainage ways are minimally affected in that their ability to adequately drain floodwaters after a flooding event is not impaired;

3. The proposal has been coordinated through the appropriate diking district where applicable, and that potential adverse effects upon other affected diking districts have been documented; and

H. Roads and bridges, subject to the regulations of subsections (C)(1) through (5) of this section. (Ord. 2008-46 § 1 (part), 2008).

15.27.412 Prohibited uses.

The following uses/developments are prohibited in the floodway:

A. Any structure, including manufactured homes, designed for or to be used for human habitation of a permanent nature (including temporary dwellings authorized by YMC 15.04.130 and 15.04.140);

B. Any encroachments, including fill, new construction and other development, <u>shall requireunless</u> certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall not materially cause water to be diverted from the established floodway, cause erosion, obstruct the natural flow of water, reduce the carrying capacity of the floodway, or result in any increase in flood levels during the occurrence of the base flood discharge;

C. Aboveground utility transmission line appurtenant structures, including valves, pumping stations, or other control facilities, shall not be permitted in the floodway, except for domestic water and regional wastewater facilities where necessary;

D. Where a floodway has not been determined by preliminary Corps of Engineers' investigations or official designation, a floodway shall be defined by qualified engineering work by the applicant on the basis of a verified one-hundred-year flood event;

E. Construction or reconstruction of residential structures within designated floodways, except for:

1. Repairs, reconstruction, or improvements to a structure which do not increase the ground floor area; and

2. Repairs, reconstruction or improvements to a structure, the cost of which does not exceed fifty percent of the assessed value of the structure either:

a. Before the repair, reconstruction or improvement is started; or

b. If the structure has been damaged and is being restored, before the damage occurred.

3. Work done on structures to correct existing violations of existing health, sanitary or safety codes, or to structures identified as historic places, shall not be included in the fifty percent.

4. If subsection B of this section is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Part Four.

F. The construction or storage of any object subject to flotation or movement during flood level periods;

G. The following uses, due to their high degree of incompatibility with the purpose of establishing and maintaining a functional floodway, are specifically prohibited:

1. The filling of wetlands, except as authorized under Part Five, Fish and Wildlife Habitat and the Stream Corridor, and Part Six, Wetlands;

2. Solid waste landfills, dumps, junkyards, outdoor storage of vehicles, and/or materials; and

3. Damming or relocation of any watercourse that will result in any downstream increase in flood levels during the occurrence of the base flood discharge (see YMC 15.27.509).

H. The construction of new dikes.

<u>I.</u> The listing of prohibited uses in this section shall not be construed to alter the general rule of statutory construction that any use not permitted is prohibited. (Ord. 2008-46 § 1 (part), 2008).

15.27.413 Nonconforming uses and facilities.

A. Within the special flood hazard areas established by this chapter or amendments thereto, there may exist structures and uses of land and structures which were lawful before these sections were adopted or amended, but which would be prohibited or restricted under the terms of Part Four of this chapter or future amendment.

B. It is the intent of YMC Chapter 15.19 to permit these lawful preexisting nonconformities to continue until they are removed by economic forces or otherwise, but not to encourage their survival except in cases where continuance thereof would not be contrary to the public health, safety or welfare, or the spirit of this chapter. (Ord. 2008-46 § 1 (part), 2008).

Part Five. Fish and Wildlife Habitat and the Stream Corridor SystemConservation Areas

Article I. Introduction

15.27.500 Purpose and intent.

The stream corridor system includes hydrologically related critical areas, streams, lakes, ponds, and wetlands and is part of a fragile and highly complex relationship of geology, soils, water, vegetation, and wildlife. Policies and standards to help conserve and protect fish and wildlife habitat conservation areas are designed to accomplish the following:

A. Meet the requirements of the Growth Management Act (RCW 36.70A.172) regarding best available science;

B. Follow the requirements pursuant to flood resistant construction in the adopted building code;

C. Provide a zero net loss of natural wetland functions and values;

<u>DB</u>. <u>Provide possible Require consideration of alternatives for necessary development, construction, and uses within fish and wildlife habitat conservation areas a designated stream corridor and other hydrologically related critical areas;</u>

E<u>C</u>. Prevent decline in the quantity and quality of surface and subsurface waters;

FD. Conserve, restore, and protect fish and wildlife habitats, vegetation, and ecological relationships;

<u>GE</u>. Protect sensitive areas of the stream corridor fish and wildlife habitat conservation areas from the potential negative effects of development through coordinated land use planning; and,

<u>HF.</u> <u>Protect fish and wildlife habitat conservation areas</u> <u>T</u>through voluntary agreements or government incentives, provide protection of natural wetland functions and values; and <u>a</u>

I. Recognize wildlife area conservation habitats within their natural geographic location through coordinated land use planning. (Ord. 2008 46 § 1 (part), 2008).

15.27.501 Protection approach.

A.—To maintain fish and wildlife habitat, there must be adequate environmental conditions for reproduction, foraging, resting, cover, and dispersal of animals. Factors affecting both habitat and its quality include the presence of essential resources such as food, water, <u>cover nest building materials</u>, and lack of <u>disturbance and</u> diseases. The city of Yakima protects fish and wildlife habitat through:

1. Designation of fish and wildlife habitat conservation areas Protection of habitat for aquatic species; and

2. Protection of habitat for species located near the water<u>Application of development standards based on best</u> available science to proposed activity and development in or near fish and wildlife habitat conservation areas.

B. The city of Yakima's approach to protecting threatened, endangered, and sensitive species habitat is by using the protection approach sections of this chapter. (Ord. 2008 46 § 1 (part), 2008).

Article II. Designation and Mapping

15.27.502 Hydrologically related critical area featuresDesignation. Stream corridors and other hydrologically related critical areas include one or more of the following features:

A. Any floodway or floodplain identified as a special flood hazard area identified by the Federal Emergency Management Agency (FEMA), as identified in the flood insurance study or corresponding maps, is hereby adopted by reference and declared to be part of this chapter;

B. Perennial and intermittent streams, excluding ephemeral streams, including the stream main channel and all secondary channels within the ordinary high water mark;

C. Naturally occurring ponds under twenty acres and associated submerged aquatic beds; and manmade lakes and ponds created within a stream channel;

D. All wetlands as defined in YMC 15.27.200;

E. Any flood prone area indicated by U.S. Soil Conservation Service soil survey data; and

F. A buffer area for a stream channel, lake, or pond or from the edge of a wetland. (Ord. 2008 46 § 1 (part), 2008).

A. Designation: Fish and wildlife habitat conservation areas are those habitat areas outside of shoreline jurisdiction that meet any of the criteria listed below.

1. Areas with which state and federal endangered, threatened, and sensitive species have a primary association;

2. Habitats and species of local importance;

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3. Naturally occurring ponds under 20 acres and their submerged aquatic beds that provide fish or wildlife habitat;

4. Waters of the state, including any required buffers and associated Federal Emergency Management Agency-mapped floodplains and floodways;

5. Lakes, ponds, streams, and rivers planted with game fish by a governmental or tribal entity; and

6. State natural area preserves, natural resource conservation areas, and state wildlife areas.

<u>15.27.503</u> <u>B.</u> Habitat and habitats of local importance.

A.<u>1.</u> <u>Habitats of local importance are habitats or species that due to their declining population, sensitivity to habitat manipulation or other values make them important on a local level. Habitats of local importance may include a seasonal range or habitat element with which a given species has a primary association, and which, if altered, may reduce the likelihood that the species will maintain and reproduce over the long term. All species and habitats identified by WDFW's *Priority Habitats and Species* program that may be found in the city of Yakima are designated as fish and wildlife habitat conservation areas and afforded protection under this chapter.</u>

2.B. Species and habitats of local importance may be identified for protection under this chapter. State or local agencies, individuals or organizations may identify and nominate for consideration specific species and habitats, or a general habitat type, including streams, ponds or other features. Proponents shall have the burden of presenting evidence concerning the criteria set forth below. The nomination shall be processed once a year through the annual comprehensive plan amendment cycle.

 \underline{Aa} . The decision for changes to species and habitats of local importance shall consider:

- ai. Concern due to population status;
- bii. Sensitivity to habitat manipulation;
- eiii. Importance to the local community; and
- <u>div</u>. Criteria used to identify state priority species, which include:

<u>(ia)</u>. State candidate species that are defined by WDFW Policy M-6001 to include fish and wildlife species that WDFW will review for possible listing as state endangered, threatened, or sensitive;

<u>iib.(b)</u> Vulnerable aggregations, which includes those species or groups of animals susceptible to significant population declines, within a specific area, by virtue of their inclination to aggregate;

(iiic.) Species of recreational, commercial, and/or tribal importance that are vulnerable; and

(ivd-) The economic impact both positive and negative to the applicant's property or surrounding property. Economic impact is to be determined by a properly qualified individual or firm using industry standards.

<u>2Bb</u>. Nominated habitats and habitats for species of local importance shall consider the following and must include maps to illustrate the proposal:

ai. A seasonal range or habitat element which, if altered, may reduce the likelihood that the species will maintain or reproduce over the long term;

bii. Areas of high relative density or species richness, breeding habitat, winter range, and movement corridors;

eiii. Habitat with limited availability or high vulnerability to alteration; and

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<u>3Cc</u>. Habitat management recommendations shall be included for use in the administration of this section.

€3. Development Standards. Projects located within habitats of local importance or within 200 feet of species of local importance, as designated in subsection A-B.1 and B.2 of this section, shall meet the standards below, rather than comply with the applicable development standards in YMC 15.27.508 through 15.27.521, unless review is also needed for a hydrologically related critical area. In addition, Pprojects shall be designated using management recommendations established for the species or habitat by federal and state agencies, or those adopted for species and habitats of local importance by the city of Yakima. The department shall consider the extent such recommendations are used in its decision on the proposal, and may consider recommendations and advice from agencies with expertise. (Ord. 2008-46 § 1 (part), 2008).

15.27.504 Functional properties.

A. <u>Streams, lakes, ponds and wetlands Aquatic fish and wildlife habitat conservation areas</u> require a sufficient riparian area to support one or more of the following functional properties:

- 1. Stream bStabilizing banks-and shore stabilization;
- 2. Providing a sufficient shade canopy to maintain water temperatures that support fish and their habitat;
- 3. Moderating the impact of stormwater runoff;
- 4. Filtering solids, nutrients and harmful substances;
- 5. <u>Preventing Ss</u>urface erosion prevention;
- 6. Providing and maintaining migratory corridors for wildlife;
- 7. Supporting a diversity of wildlife habitats; or

8. Allowing for the natural occurrence of woody debris and organic matter to collect in the aquatic environment.

15.27.505 Streams, lakes and pondsWater typing system.

For purposes of this chapter, the city of Yakima hereby adopts the WAC 222-16-031 -a stream, lake and pond Interim water typing system, for those features designated as critical areas in YMC 15.27.502, as follows:

A. Type 1 <u>watersstreams</u> are those waters, within their ordinary high water mark (OHWM), meeting the criteria as "shorelines of the state" and "shorelines of statewide significance" under RCW Chapter 90.58. <u>Other Wwaters</u> associated with Type 1 streams waters as defined in RCW Chapter 90.58 are not included are not considered Type 1 waters. Type 1 waters are regulated exclusively under Title 17 of the Yakima Municipal Code;

B. Type 2 <u>waters-streams are means segments of natural waters which are not classified as Type 1 Water and have a high fish, wildlife, or human use. These are segments of natural waters and periodically inundated areas of their associated wetlands, which:</u>

1. Are diverted for domestic use by more than 100 residential or camping units or by a public accommodation facility licensed to serve more than 10 persons, where such diversion is determined by the department to be a valid appropriation of water and only considered Type 2 Water upstream from the point of such diversion for 1,500 feet or until the drainage area is reduced by 50 percent, whichever is less;

2. Are diverted for use by federal, state, tribal or private fish hatcheries. Such waters shall be considered Type 2 Water upstream from the point of diversion for 1,500 feet, including tributaries if highly significant for protection of downstream water quality. The department may allow additional harvest beyond the requirements of Type 2 Water designation provided by the department of fish and wildlife, department of ecology, the affected tribes and interested parties that:

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 17/69 a. <u>The management practices proposed by the landowner will adequately protect water quality for the fish</u> <u>hatchery; and</u>

b. <u>Such additional harvest meets the requirements of the water type designation that would apply in the absence of the hatchery;</u>

c. <u>Are within a federal, state, local or private campground having more than 30 camping units: Provided,</u> <u>That the water shall not be considered to enter a campground until it reaches the boundary of the park lands</u> <u>available for public use and comes within 100 feet of a camping unit.</u>

d. Are used by fish for spawning, rearing or migration. Waters having the following characteristics are presumed to have highly significant fish populations:

i. Stream segments having a defined channel 20 feet or greater within the bankfull width and having a gradient of less than 4 percent.

ii. Lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water; or

e. Are used by fish for off-channel habitat. These areas are critical to the maintenance of optimum survival of fish. This habitat shall be identified based on the following criteria:

i. The site must be connected to a fish bearing stream and be accessible during some period of the year; and

ii. <u>The off-channel water must be accessible to fish through a drainage with less than a 5% gradient.</u>

those surface water features which require protection due to the nature of their contributions to the functional properties listed in YMC 15.27.504 and are considered "streams, lakes and/or ponds of local importance," as listed in Appendix B of this title;

C. Type 3 streams-waters means segments of natural waters which are not classified as Type 1 or 2 Waters and have a moderate to slight fish, wildlife, or human use. These are segments of natural waters and periodically inundated areas of their associated wetlands which:

1. Are diverted for domestic use by more than 10 residential or camping units or by a public accommodation facility licensed to serve more than 10 persons, where such diversion is determined by the department to be a valid appropriation of water and the only practical water source for such users. Such waters shall be considered to be Type 3 Water upstream from the point of such diversion for 1,500 feet or until the drainage area is reduced by 50 percent, whichever is less:

2. Are used by fish for spawning, rearing or migration. The requirements for determining fish use are described in the board manual section 13. If fish use has not been determined:

a. Waters having any of the following characteristics are presumed to have fish use:

i. Stream segments having a defined channel of 2 feet or greater within the bankfull width in Western Washington; or 3 feet or greater in width in Eastern Washington;, and having a gradient of 16 percent or less;

ii. Stream segments having a defined channel of 2 feet or greater within the bankfull width in Western Washington; or 3 feet or greater within the bankfull width in Eastern Washington, and having a gradient greater than 16 percent and less than or equal to 20 percent, and having greater than 50 acres in contributing basin size in Western Washington or greater than 175 acres contributing basin size in Eastern Washington, based on hydrographic boundaries;

iii. Ponds or impoundments having a surface area of less than 1 acre at seasonal low water and having an outlet to a fish stream;

iv. Ponds of impoundments having a surface area greater than 0.5 acre at seasonal low water.

b. The department shall waive or modify the characteristics in (i) of this subsection where:

i. Waters have confirmed, long term, naturally occurring water quality parameters incapable of supporting fish;

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 18/69 ii. Snowmelt streams have short flow cycles that do not support successful life history phases of fish. These streams typically have no flow in the winter months and discontinue flow by June 1; or

iii. Sufficient information about a geomorphic region is available to support a departure from the characteristics in (i) of this subsection, as determined in consultation with the department of fish and wildlife, department of ecology, affected tribes and interested parties.

include all perennial streams within the city of Yakima not classified as Type 1 or 2. (See YMC 15.27.200, "perennial stream"):

D. Type 4 waters streams means all segments of natural waters within the bankfull width of defined channels that are perennial nonfish habitat streams. Perennial streams are flowing waters that do not go dry any time of a year of normal rainfall and include the intermittent dry portions of the perennial channel below the uppermost point of perennial flow.are all intermittent streams within the city of Yakima not classified as Type 1, 2 or 3. (See YMC 15.27.200, "intermittent stream");

E. Type 5 waters means all segments of natural waters within the bankfull width of the defined channels that are not Type 1, 2, 3, or 4 Waters. These are seasonal, nonfish habitat streams in which surface flow is not present for at least some portion of the year and are not located downstream from any stream reach that is a Type 4 Water. Type 5 Waters must be physically connected by an above-ground channel system to Type 1, 2, 3, or 4 Waters. streams are all ephemeral streams within the city of Yakima not classified as Type 1, 2, 3 or 4. Type 5 streams are not regulated as streams. (See YMC 15.27.200, "ephemeral stream"); and

F. Lakes and Ponds.

1. Lakes and ponds not designated as a shoreline that receive water from the OHWM of a Type 2, 3, or 4 stream shall have the same surface water type as the highest stream type from which the lake or pond receives water.

2. Natural lakes and ponds, not designated as a shoreline, that do not receive water from the OHWM of a Type 1, 2, 3, or 4 stream shall be Type 3 ponds.

3. Lakes or ponds not designated as a shoreline that are connected to a Type 1 stream shall be Type 1 ponds. (Ord. 2008 46 § 1 (part), 2008).

15.27.506 Wetland rating system.

A. Wetlands within the city of Yakima are defined in YMC 15.27.200 and are shown on the data maps referenced in YMC 15.27.507. Most, but not all, of the wetlands within the city of Yakima occur near streams. The functional properties for wetlands are identified in YMC 15.27.504 and 15.27.603.

B. For regulatory purposes, wetlands are classified into four categories according to the wetland rating system found in YMC 15.27.603(B). (Ord. 2008 46 § 1 (part), 2008).

15.27.507 Maps.

Certain fish and wildlife habitat and hydrologically related critical conservation areas have been inventoried and are depicted on a series of paper and electronic maps. The maps do not officially define the extent or characteristics of specific critical areas, but rather the potential physical boundaries and characteristics. Maps may be both regulatory and nonregulatory in nature as described below:

Article IV. Water Dependency Development Standards and Buffer Requirements

15.27.510 Use classifications.

For purposes of this section, the components of any development, construction, or use requiring a critical area development authorization shall be classified as provided below, and shall conform to the development standards applicable to the classification provided in YMC 15.27.511 through 15.27.513:

A. Water oriented uses are one of the following two categories of uses:

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 19/69 1. Water dependent uses include dams, water diversion facilities, marinas, boat launching facilities, water intakes and outfalls, aquaculture, log booming, stream and wetland crossings for roads and railroads, stream and wetland crossings for utilities, swimming beaches, fishing sites, in water or on land shore stabilization structures, livestock watering sites, and other uses that cannot exist in any other location and are dependent on the water by reason of the intrinsic nature of their operations. This provision applies only to the specific portion of a project that is demonstrably dependent upon the water or shore.

2. A water-related use is one not intrinsically dependent on a waterfront location but whose economic viability is enhanced by a waterfront location, either because it requires large quantities of water or because it provides services for water dependent uses and the proximity to its customers makes such services less expensive and/or more convenient. Examples would include thermal power plants, sewage treatment plants, water processing and treatment plants, support services for fish hatcheries or aquaculture, fly shops and boat rental shops.

B. Non water oriented uses include any use not qualifying as uses in subsection A of this section. (Ord. 2008 46 § 1 (part), 2008).

15.27.511 Water-dependent uses.

The following provisions shall apply to water dependent uses:

A. Structures shall be clustered at locations on the water's edge having the least impact to the surface water and shore.

B. Use areas and structures which require direct shore locations shall be located and constructed to minimize impacts to the shore area and the vegetative buffer specified in YMC 15.27.514.

C. Use areas and structures requiring direct shore locations shall minimize any obstruction or impairment of normal public navigation of the surface water. (Ord. 2008 46 § 1 (part), 2008).

15.27.512 Water-related uses.

The following provisions shall apply to water related uses:

A. Structures and use areas shall be located as far landward from the ordinary high water mark or wetland edge as is possible and still preserve the essential or necessary relationship with the surface water.

B. Structures and use areas shall not be located within the vegetative buffer specified in YMC 15.27.514 except where existing development or the requirements associated with the use make such a location unavoidable. (Ord. 2008 46 § 1 (part), 2008).

15.27.513 Non-water-oriented uses.

The following provisions shall apply to non-water oriented uses:

A. Structures and use areas shall be set back so as not to be located within the vegetative buffer specified in YMC 15.27.514.

B. Construction abutting the vegetative buffer specified in YMC 15.27.514 shall be designed and scheduled to ensure there will not be permanent damage or loss of the vegetative buffer. (Ord. 2008 46 § 1 (part), 2008).

15.27.514510 Vegetative buffers.

The establishment of a vegetative buffer system is necessary to protect the functions and values of certain hydrologically related critical areas. Standard and minimum buffers for streams, lakes, and ponds, and wetlands are listed in (Tables 27.5-1 and 27.5-2). Buffers associated with wetlands are listed in YMC 15.27.604.

A. Vegetative buffers shall be measured from the ordinary high water mark for streams, lakes, and ponds, and from the edge of the wetlands. The width of the buffer shall be determined according to the stream or wetland<u>water</u> type. Buffer width may be reduced through an adjustment permit process (YMC 15.27.317) <u>using one of the following methods-:</u>

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 20/69 1. Where a legally established road or railway crosses a critical area buffer, the administrative official or designee may approve a modification of the minimum required buffer width to the waterward edge of the improved road if a study submitted by the applicant and prepared by a qualified professional demonstrates that the part of the buffer on the upland side of the road sought to be reduced:

a. Does not provide additional protection of the waterbody; and

b. Provides insignificant biological, geological or hydrological buffer functions relating to the waterward portion of the buffer adjacent to the waterbody.

If the improved roadway corridor is wider than twenty feet, a study is not required.

2. Buffer averaging to improve stream protection may be permitted when all of the following conditions are met:

a. The buffer has significant differences in characteristics that affect its habitat functions.

b. The buffer is increased adjacent to the higher-functioning area of habitat or more sensitive portion of the stream and decreased adjacent to the lower-functioning or less sensitive portion as demonstrated by a critical areas report from a qualified professional.

c. The total area of the buffer after averaging is equal to the area required without averaging.

d. The buffer at its narrowest point is never less than three-quarters of the required width.

3. Buffer averaging to allow reasonable use of a parcel may be permitted when all of the following are met:

a. There are no feasible alternatives to the site design that could be accomplished without buffer averaging.

b. The averaged buffer will not result in degradation of the stream's functions and values as demonstrated by a critical areas report from a qualified professional.

c. The total buffer area after averaging is equal to the area required without averaging.

d. The buffer at its narrowest point is never less than three-quarters of the required width.

However, the administrative official may not approve reductions to the standard buffer widths for wetlands that score medium (twenty through twenty eight points) or high (twenty nine through thirty six points) for wetland habitat function, except where it can be shown that a particular wildlife species' needs within the buffer can be met with a smaller buffer.

B. Type 1 streams, lakes, and ponds<u>waters</u> are protected by the shoreline master program and are not part of this title.

<u>CB</u>. The minimum buffer widths listed in Tables 27.5-1-and 27.5-2 are the lowest possible buffer widths allowed by means of the adjustment process. Adjustments below the minimum buffer width must meet additional approval criteria as provided in YMC 15.27.317(C)(4).

D. The adequacy of these standard buffer widths presumes the existence of a relatively intact native vegetative community within the buffer zone that is deemed adequate to protect the identified critical area.

- 1. If the vegetation is degraded, then revegetation may be considered with any adjustment to the buffer width.
- 2. Where the use is being intensified, a degraded buffer may be revegetated to maintain the standard width.

Stream-Water_Type	Buffer Width—standard/(minimum adjustment)
Type 1 shoreline streams, lakes, and ponds	100'See Table 09.030-1 in YMC 17.09.030.P.
Type 2 streams, lakes, and pondsor 3	75' /(25')/(56.25')
Type 3 streams (perennial), lakes, and ponds <u>or 4</u>	50'/(25')<u>50'/(37.5')</u>
Type 4 and 5streams (intermittent), lakes, and ponds	25'/(15')<u>25'/(18.75')</u>
Type 5 streams (ephemeral)	No buffer standards. Type 5 streams are not regulated as streams, but may be protected under geologically hazardous area, floodplain, stormwater, construction, grading or other development regulations. <u>Not Applicable</u>

Table 27.5-1

—The administrative official may not approve reductions to the standard buffer widths for wetlands that score medium (twenty through twenty eight points) or high (twenty nine through thirty six points) for wetland habitat function, except where it can be shown that a particular wildlife species' needs within the buffer can be met with a smaller buffer.

Table 27.5-2

		Type 3 Wetlands (standard/minimum)	Type 4 Wetlands (standard/minimum)
200'/100'	150'/75'	100'/50'	50'/25'

(Ord. 2008-46 § 1 (part), 2008).

Article V. Land Modification Development Standards

15.27.515511 Roads, railroads, and parking.

The following provisions shall apply to the location and construction of roads, railroads, and parking within a designated <u>hydrologically related criticalfish and wildlife habitat conservation</u> area:

A. Roads and railroads shall not be located within a <u>fish and wildlife habitat conservation area</u> designated stream <u>corridor</u> except where it is necessary to cross the <u>corridor critical area</u> or where existing development, topography, and other conditions preclude locations outside the <u>stream corridor critical area</u>;

1. Construction of roadways across stream corridors shall be by the most direct route possible having the least impact to the <u>fish and wildlife habitat conservation areastream corridor</u>;

2. Roadways that must run parallel to streams or wetlands shall be along routes having the greatest possible distance from stream or wetland and the least impact;

3. Roadways within the <u>fish and wildlife habitat conservation area or its buffer stream corridor</u> shall not hydrologically obstruct, cut off or isolate stream corridor features, unless it is clearly unavoidable;

B. Material excavated from the roadway area to achieve the design grade shall be used as fill where necessary to maintain grade or shall be transported outside the <u>fish and wildlife habitat conservation areastream corridor</u>;

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 22/69 C. Necessary fill to elevate roadways shall not impede the normal flow of floodwaters or cause displacement that would increase the elevation of flood waters such that it would cause properties not in the floodplain to be flood-prone;

D. Spoil, construction waste, and other debris shall not be used as road fill or buried within the <u>fish and wildlife</u> <u>habitat conservation areastream corridor</u>;

15.27.5162 Utility transmission lines and facilities.

The following provisions shall apply to the location, construction, and installation of utility transmission lines (such as those for wastewater, water, communication, natural gas) within a designated hydrologically related critical fish and wildlife habitat conservation area:

15.27.5173 BankShore stabilization.

The following provisions shall apply to shore bank stabilization projects located outside of shoreline jurisdiction:

A. <u>ShoreBank</u> stabilization projects shall be allowed only where there is evidence of erosion which clearly threatens existing property, structures, or facilities, and which stabilization will not jeopardize other upstream or downstream properties;

B. Stabilization projects shall be developed under the supervision of, or in consultation with, agencies or professionals with appropriate expertise;

C. Stabilization projects shall be confined to the minimum protective measures necessary to protect the threatened property;

D. The use of fill to restore lost land may accompany stabilization work, provided the resultant <u>shore-bank</u> does not extend beyond the <u>new-original</u> ordinary high water mark, finished grades are consistent with abutting properties, a restoration plan is approved for the area, and the fill material is in compliance with YMC 15.27.519;

E. Stabilization projects shall use design, material, and construction alternatives that do not require high or continuous maintenance, and which prevent or minimize the need for subsequent stabilization of the shore's other segments;

F. Alternative Preferences. Vegetation, berms, bioengineering techniques, and other nonstructural alternatives which preserve the natural character of the <u>shore-bank</u> shall be preferred over riprap, concrete revetments, bulkheads, breakwaters, and other structural stabilization, while riprap, rock or other natural materials shall be preferred over concrete revetments, bulkheads, breakwaters and other structural stabilization;

G. Applications to construct or enlarge dikes or levees shall meet the requirements of YMC 15.27.411(G);

H. Revetments and bulkheads shall be no higher than necessary to protect and stabilize the shorebank;

I. Breakwaters shall be constructed of floating or open-pile designs rather than fill, riprap, or other solid construction methods; and

J. All new flood control projects shall define maintenance responsibilities and a funding source for operations, maintenance and repairs for the life of the project. (Ord. 2008-46 § 1 (part), 2008).

15.27.5184 Dredging and excavation.

The following provisions shall apply to dredging and excavation within a designated hydrologically related eritical aquatic fish and wildlife habitat conservation area outside of shoreline jurisdiction:

E. <u>Entries across shore and wetland edgesAccess</u> to accomplish dredging or excavation shall be confined to the minimum area necessary to gain entry and shall be confined to locations with the least potential for site disturbance and damage.

G. Dredge spoils are also considered fill, and shall not be deposited within the <u>stream-waterbody</u> except where such deposit is in accordance with approved procedures intended to preserve or enhance wildlife habitat, natural drainage, or other naturally occurring conditions. (Ord. 2008-46 § 1 (part), 2008).

15.27.5195 Filling.

The following provisions shall apply to filling activities within a designated hydrologically related critical fish and wildlife habitat conservation area outside of shoreline jurisdiction:

A. Fill within surface waters or wetlands shall be allowed only where necessary in conjunction with waterdependent uses or an approved <u>reclamation mitigation or restoration</u> plan under YMC <u>15.27.307</u>, 15.27.521, or approved compensatory mitigation plan under YMC <u>15.27.604</u>.

B. Fill for the purpose of increasing elevation may be permitted if it can be accomplished in a manner consistent with this chapter's policies.

C. Fill shall be the minimum necessary to accomplish the use or purpose and shall be confined to areas having the least impact to the <u>fish and wildlife habitat conservation areastream corridor</u>. Other alternatives should be preferred over fill to elevate new homes in the floodplain, such as increasing foundation height or zero-rise methods such as piers, posts, columns, or other methods.

G. Fill and finished surface material shall require low maintenance, provide high resistance to erosion, and prevent or control the migration of sediments and other material from the fill area to surrounding water, shore, and wetlandswaterbodies, unless the Washington Department of Fish and Wildlife indicates other options are preferred.

I. Fill should not obstruct, cut off, or isolate stream corridor features aquatic fish and wildlife habitat conservation areas. (Ord. 2008-46 § 1 (part), 2008).

15.27.52016 Commercial mining of gravel.

The following provisions shall apply to the commercial mining of gravel within a designated hydrologically related eritical fish and wildlife habitat conservation area outside of shoreline jurisdiction:

A. Prior to the authorization of a commercial gravel mining operation, the project proponent shall provide maps to scale which illustrate the following:

1. The extent to which gravel excavation and processing will affect or modify existing <u>-fish and wildlife</u> <u>habitat conservation areasstream corridor features</u>, including existing riparian vegetation;

B. Wherever feasible, the operations and any subsequent use or uses shall not cause permanent impairment or loss of floodwater storage, wetland, or other stream corridor featurescritical area functions and values. Mitigation shall <u>be provided consistent with YMC 15.27.307, 15.27.521, or 15.27.604</u> for the feature's replacement at equal value, except wetlands which shall be mitigated according to guidance in the Washington State Department of Ecology's Wetland Mitigation in Washington State, Parts 1 and 2 (March 2006 or as updated).

D. Except where authorized by the city of Yakima in consultation with the State Department of Fish and Wildlife and Department of Ecology, the following shall apply:

1. The excavation zone for the removal of gravels shall be located a minimum of one hundred feet upland from the ordinary high water mark (OHWM) of the stream channel<u>a waterbody</u>.

15.27.52117 Restorationclamation.

The following guidelines shall apply to the reclamation restoration of disturbed sites resulting from development activities within a designated hydrologically related critical fish and wildlife habitat conservation area:

B. Large-scale projects that extend over several months shall be phased to allow <u>reclamation-restoration</u> of areas where work or operations have been completed;

C. <u>Reclamation-Restoration</u> shall be scheduled to address precipitation, meltwater runoff, the growing season, and other seasonal variables that influence restoration and recovery;

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 24/69 E. Where existing development and construction prevent return of a site to its natural condition, sites may be finished to conditions comparable to surrounding properties provided suitable protective measures are used to prevent stream corridor degradation of fish and wildlife habitat conservation areas;

F. Cut-and-fill slopes shall be stabilized at, or at less than, the normal angle of repose for the materials involved; and

G. For the replacement or enhancement of vegetation within <u>fish and wildlife habitat conservation areas and their</u> wetlands and required vegetative buffers naturally occurring, native plant species shall be used; and

H. In other parts of the stream, naturally occurring, native plant species shall be used, unless a showing of good cause acceptable to the administrative official or designee is provided. Should good cause be shown, then self-maintaining or low-maintenance plant species compatible with the native vegetation shall be used in place of non-native and high-maintenance species. (Ord. 2008-46 § 1 (part), 2008).

Part Six. Wetlands

15.27.601 Designating and mapping.

A. Wetlands are all areas meeting the definition for wetlands as defined in YMC 15.27.200 and are hereby designated critical areas which are subject to this chapter, except the following: Wetlands shall be delineated used the procedures outlines in the approved federal wetland delineation manual and applicable regional supplements.

B. Wetlands are all areas meeting the definition of wetlands as defined in YMC 15.27.200 and are hereby designated critical areas which are subject to this chapter, except the following:

- 1. Irrigation systems that create an artificial wetland; and
- 2. Areas where changes in irrigation practices have caused wetland areas to dry up.

B<u>C</u>. The approximate location and extent of wetlands are shown on maps maintained by the city of Yakima. These maps may include information from the National Wetlands Inventory produced by the U.S. Fish and Wildlife Service and are to be used as a guide for the city of Yakima. (Ord. 2008-46 § 1 (part), 2008).

15.27.602 Protection approach.

Wetlands will be protected using the protection approach for hydrologically related critical areasfish and wildlife habitat conservation areas found in YMC 15.27.501. Wetlands and their functions will be protected using the standards found in Part Four. (Ord. 2008-46 § 1 (part), 2008).

15.27.603 Wetland functions and rating.

B. Wetlands shall be rated based on categories that reflect the functions and values of each wetland and shall be based on the criteria provided in the *Washington State Wetland Rating System for Eastern Washington*, revised <u>August 2004October 2014</u> (Ecology Publication No. <u>14-06-03004 06-15</u>, or as revised) which are summarized below:

1. Category I wetlands are more sensitive to disturbance than most wetlands; relatively undisturbed; and contain ecological attributes that are difficult to replace. Generally, these wetlands are not common and make up a very small percentage of the wetlands within the city of Yakima. The following types of wetlands are classified as Category I:

a. Wetlands scoring seventy points or more (out of one hundred) in the Eastern Washington Wetland Rating System (EWWRS);

b. Alkali wetlands;

c. Natural heritage wetlands (wetlands identified by Washington Department of Natural Resources Natural Heritage Program scientists); and

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 25/69 d. Bogs.those 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 in a human lifetime; or 4) provide a high level of functions. Risk of any degradation to these wetlands must be avoided because their functions and values are too difficult to replace. Generally, these wetlands are not common and make up a small percentage of the wetlands in the region.

2. Category II wetlands are difficult, but not impossible, to replace and provide high levels of some functions. Category II wetlands include:

a. Wetlands scoring between fifty one and sixty nine points (out of one hundred) in the EWWRS;

b. Unassociated vernal pools; and

c. Forested wetlands. These wetlands occur more commonly than Category 1 wetlands, but still need a relatively high level of protection.

3. Category III wetlands are often smaller, less diverse, and/or more isolated from other natural resources. Category III wetlands include:

a. Wetlands with a moderate level of functions (scoring between thirty and fifty points) in the EWWRS; and

b. Associated vernal pools. wetlands with a moderate level of functions and can often be adequately replaced with a well-planned mitigation project. These wetlands generally have been disturbed in some ways and are often less diverse or more isolated from other natural resources in the landscape than Category II wetlands.

4. Category IV wetlands have the lowest levels of functions, scoring less than thirty points in the EWWRS. Category IV wetlands and are often heavily disturbed, and are wetlands that should be able to be replaced. These are wetlands that should be able to be replaced and, in some cases, improved. However, experience has shown that replacement cannot be guaranteed in any specific case. These wetlands may provide some important functions and also need to be protected.

C. Wetlands shall be rated as they exist on the day of project application submission. Information regarding the original condition of illegally modified wetlands that <u>can not_cannot</u> be discerned from aerial photographs or other reliable information sources shall use the highest appropriate points value within each missing data field of the <u>Washington State Wetland Rating System for Eastern Washington: 2014 UpdateEWWRS</u> rating sheet to complete the rating. (Ord. 2008-46 § 1 (part), 2008).

15.27.604 Wetland Buffers

A. Buffer Requirements. The following buffer widths have been established in accordance with the best available science. They are based on the category of wetland and the habitat score as determined by a qualified professional using the *Washington State Wetland Rating System for Eastern Washington: 2014 Update* (Ecology Publication #14-06-030, or as revised). The adjacent land use intensity is assumed to be high.

1. For wetlands that score 5 points or more for habitat function, the buffers in Table 27.6-1 can be used if both of the following criteria are met:

a. A relatively undisturbed, vegetated corridor at least 100 feet wide is protected between the wetland and any other Priority Habitats as defined by the Washington State Department of Fish and Wildlife (http://wdfw.wa.gov/hab/phshabs.htm).

The corridor must be protected for the entire distance between the wetland and the Priority Habitat by some type of legal protection such as a conservation easement.

<u>Presence or absence of a nearby habitat must be confirmed by a qualified biologist. If no option for providing a corridor is available, Table 27.6-1 may be used with the required measures in Table 27.6-2 alone.</u>

b. The measures in Table 27.6-2 are implemented, where applicable, to minimize the impacts of the adjacent land uses.

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 26/69 2. For wetlands that score 3-4 habitat points, only the measures in Table 27.6-2 are required for the use of Table 27.6-1.

3. If an applicant chooses not to apply the mitigation measures in Table 27.6-2, or is unable to provide a protected corridor where available, then Table 27.6-3 shall be used.

4. The buffer widths in Table 27.6-1 and 27.6-3 assume that the buffer is vegetated with a native plant community appropriate for the ecoregion. If the existing buffer is unvegetated, sparsely vegetated, or vegetated with invasive species that do not perform needed functions, the buffer should either be planted to create the appropriate plant community or the buffer should be widened to ensure that adequate functions of the buffer are provided.

	Buffer Width (feet) based on habitat score			
Wetland Category	3-4	<u>5</u>	<u>6-7</u>	<u>8-9</u>
Category 1: Based on total score	75	<u>90</u>	120	<u>150</u>
Category 1: Forested	<u>75</u>	<u>90</u>	<u>120</u>	<u>150</u>
Category 1: Bogs and Wetlands of High Conservation Value	<u>190</u>			
Category 1: Alkali	<u>150</u>			
Category II: Based on total score	<u>75</u>	<u>90</u>	<u>120</u>	<u>150</u>
Category II: Vernal Pool	150			
Category II: Forested	<u>75</u>	<u>90</u>	<u>120</u>	<u>150</u>
Category III (all)	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>
Category IV (all)	<u>40</u>			

Disturbance	Required Measures to Minimize Impacts
Lights	Direct lights away from wetland
Noise	Locate activity that generates noise away from wetland
	• If warranted, enhance existing buffer with native vegetation for plantings adjacent
	to noise source
	• For activities that generate relatively continuous, potentially disruptive noise, such
	as certain heavy industry or mining, establish an additional 10-feet heavily
	vegetated buffer strip immediately adjacent to the outer wetland buffer.
Toxic Runoff	• 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
Stormwater	Retrofit stormwater detention and treatment for roads and existing adjacent
<u>Runoff</u>	development
	Prevent channelized flow from lawns that directly enters the buffer
	Use Low Intensity Development techniques
Changes in water	• Infiltrate or treat, detain, and disperse into buffer new runoff from impervious
regime	surfaces and new lawns.
Pets and human	• Use privacy fencing OR plan dense vegetation to delineate buffer edge and to
disturbance	discourage disturbance using vegetation appropriate for the ecoregion
	• Place wetland and its buffer in a separate tract or protect with a conservation
	easement
Dust	Use best management practices to control dust

Table 27.6-2: Required measures to minimize impacts to wetlands

Table 27.6-3: Wetland Buffer Requirements if Table 27.6-2 is NOT implemented and corridor NOT provided

	Buffer Width (feet) based on habitat score			
Wetland Category	<u>3-4</u>	<u>5</u>	<u>6-7</u>	<u>8-9</u>
Category 1: Based on total score	100	<u>130</u>	<u>180</u>	200
Category 1: Forested	<u>100</u>	<u>130</u>	<u>180</u>	<u>200</u>
Category 1: Bogs and Wetlands of High Conservation Value	<u>250</u>			
Category 1: Alkali	<u>200</u>			
Category II: Based on total score	<u>100</u>	<u>130</u>	<u>180</u>	<u>200</u>
Category II: Vernal Pool	200			
Category II: Forested	<u>100</u>	<u>130</u>	<u>180</u>	<u>200</u>
Category III (all)	<u>80</u>	<u>130</u>	<u>180</u>	<u>200</u>
Category IV (all)	<u>50</u>			

5. Increased Wetland Buffer Area Width. Buffer widths shall be increased on a case-by-case basis as determined by the administrative official when a larger buffer is necessary to protect wetland functions and values. This determination shall be supported by appropriate documentation showing that it is reasonably related to protection of the functions and values of the wetland. This documentation shall include, but not be limited to, the following criteria:

a. The wetland is used by a state or federally listed plant or animal species, or has unusual nesting or resting sites such as heron rookeries or raptor nesting trees; or

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 28/69 b. The adjacent land is susceptible to severe erosion, and erosion-control measures will not effectively prevent adverse wetland impacts; or

c. The adjacent land has minimal vegetative cover or slopes greater than 30 percent.

6. Buffer averaging to *improve wetland protection* may be permitted when **all** of the following conditions are <u>met:</u>

a. The wetland has significant differences in characteristics that affect its habitat functions, such as a wetland with a forested component adjacent to a degraded emergent component or a "dual-rated" wetland with a Category 1 area adjacent to a lower-rated area.

b. The buffer is increased adjacent to the higher-functioning area of habitat or more-sensitive portion of the wetland and decreased adjacent to the lower-functioning or less-sensitive portion as demonstrated by a critical areas report from a qualified wetland professional.

c. The total area of the buffer after averaging is equal to the area required without averaging.

d. The buffer at its narrowest point is never less than either ³/₄ of the required width or 75-feet for Category I and II, 50-feet for Category III, and 25-feet for Category IV, whichever is greater.

7. Averaging to *allow reasonable use* of a parcel may be permitted when **all** of the following are met:

a. There are no feasible alternatives to the site design that could be accomplished without buffer averaging.

b. The averaged buffer will not result in degradation of the wetland's functions and values as demonstrated by a critical areas report from a qualified wetland professional.

c. The total buffer area of the buffer after averaging is equal to the area without averaging.

d. The buffer at its narrowest point is never less than either ³/₄ of the required width or 75-feet for Category I and II, 50-feet for Category III, and 25-feet for Category IV, whichever is greater.

B. To facilitate long-range planning using a landscape approach, the Administrative Official may identify and preassess wetlands using the rating system and establish appropriate wetland buffer widths for such wetlands. The Administrative Official will prepare maps of wetlands that have been pre-assessed in this manner.

C. Measurement of Wetland Buffers. All buffers shall be measured perpendicular from the wetland boundary as surveyed in the field. The buffer for a wetland created, restored, or enhanced as compensation for approved wetland alterations shall be the same as the buffer required for the category of the created, restored, or enhanced wetland. Buffers must be fully vegetated in order to be included in buffer area calculations. Lawns, walkways, driveways, and other mowed or paved areas will not be considered buffers or included in buffer area calculations.

D. Buffers on Mitigation Sites. All wetland mitigation sites shall have buffers consistent with the buffer requirements of this Chapter. Buffers shall be based on the expected or target category of the proposed wetland mitigation site.

E. Buffer Maintenance. Except as otherwise specified or allowed in accordance with this chapter, wetland buffers shall be retained in an undisturbed or enhanced condition. In the case of compensatory mitigation sites, removal of invasive non-native weeds is required for the duration of the mitigation bond, YMC § 15.27.605(10)(b)(i)(10).

F. Impacts to Buffers. Requirements for the compensation for impacts to buffers are outlined in YMC § 15.27.605.

G. Overlapping Critical Area Buffers. If buffers for two contiguous critical areas overlap (such as buffers for a stream and a wetland), the wider buffer applies.

H. Allowed Buffer Uses. The following uses may be allowed within a wetland buffer in accordance with the review procedures of this Chapter, provided they are not prohibited by any other applicable law and they are conducted in a manner so as to minimize impacts to the buffer and adjacent wetland:

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 29/69 1. Conservation and Restoration Activities. Conservation or restoration activities aimed at protecting the soil, water, vegetation, or wildlife.

2. Passive recreation. Passive recreation facilities designed and in accordance with an approved critical area report, including:

a. Walkways and trails, provided that those pathways are limited to minor crossings having no adverse impact on water quality. They should be generally parallel to the perimeter of the wetland, located only in the outer twenty-five percent (25%) of the wetland buffer area, and located to avoid removal of significant trees. They should be limited to pervious surfaces no more than five (5) feet in width for pedestrian use only. Raised boardwalks utilizing non-treated pilings may be acceptable.

b. Wildlife-viewing structures.

3. Educational and scientific research activities.

4. Normal and routine maintenance and repair of any existing public or private facilities within an existing right-of-way, provided that the maintenance or repair does not increase the footprint or use of the facility or right-of-way.

5. The harvesting of wild crops in a manner that is not injurious to natural reproduction of such crops, chemical applications, or alteration of the wetland by changing existing topography, water conditions, or water sources.

6. Drilling for utilities/utility corridors under a buffer, with entrance/exit portals located completely outside of the wetland buffer boundary, provided that the drilling does not interrupt the ground water connection to the wetland or percolation of surface water down through the soil column. Specific studies by a hydrologist are necessary to determine whether the ground water connection to the wetland or percolation of surface water down through the soil column is disturbed.

7. Enhancement of a wetland buffer through the removal of non-native invasive plant species. Removal of invasive plant species shall be restricted to hand removal. All removed plant material shall be taken away from the site and appropriately disposed of. Plants that appear on the Washington State Noxious Weed Control Board list of noxious weeds must be handled and disposed of according to a noxious weed control plan appropriate for that species. Revegetation with appropriate native species at natural densities is allowed in conjunction with removal of invasive plant species.

8. Repair and maintenance of non-conforming uses or structures, where legally established within the buffer, provided they do not increase their degree of nonconformity.

I. Signs and Fencing of Wetlands and Buffers.

1. Temporary markers. The outer perimeter of the wetland buffer and the clearing limits identified by an approved permit or authorization shall be marked in the field with temporary "clearing limits" fencing in such a way as to ensure that no unauthorized intrusion will occur. The marking is subject to inspection by the Administrative Official prior to the commencement of permitted activities. This temporary marking shall be maintained throughout construction and shall not be removed until permanent signs, if required, are in place.

2. Permanent signs. As a condition of any permit or authorization issued pursuant to this chapter, the Administrative Official may require the applicant to install permanent signs along the boundary of a wetland or buffer.

a. Permanent signs shall be made of an enamel-coated metal face and attached to a metal post or other non-treated material of equal durability. Signs must be posted at an interval of one (1) every 50-feet, or one (1) per lot if the lot is less than 50-feet wide, and must be maintained by the property owner in perpetuity. The signs shall be worded as follows or with alternative language approved by the Administrative Official:

Protected Wetland Area <u>Do Not Disturb</u> <u>Contact the City of Yakima</u> <u>Regarding Uses, Restrictions, and Opportunities for Stewardship</u>

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 30/69 b. The provisions of Subsection (a) may be modified as necessary to assure protection of sensitive features or wildlife.

3. Fencing.

a. The applicant shall be required to install a permanent fence around the wetland or buffer when domestic grazing animals are present or may be introduced on site.

b. Fencing installed as part of a proposed activity, or as required in this Subsection, shall be designed so as not to interfere with species mitigation, including fish runs, and shall be constructed in a manner that minimizes impacts to the wetland and associated habitat.

15.27.605 Compensatory mMitigation requirements.

A. Mitigation Sequencing. Before impacting any wetland or its buffer, an applicant shall demonstrate that the following actions have been taken. Actions are listed in the order of preference:

1. Avoid the impact altogether by not taking a certain action or parts of an action.

2. Minimize impacts by limiting the degree or magnitude of the action and its implementation, by using appropriate technology, or by taking affirmative steps to avoid or reduce impacts.

3. Rectify the impact by repairing, rehabilitating, or restoring the affected environment.

4. Reduce or eliminate the impact over time by preservation and maintenance operations.

5. Compensate for the impact by replacing, enhancing, or providing substitute resources or environments.

6. Monitor the required compensation and take remedial or corrective measures when necessary.

B. Requirements for Compensatory Mitigation:

1. Compensatory mitigation for alterations to wetlands shall be used only for impacts that cannot be avoided or minimized and shall achieve equivalent or greater biologic functions. Compensatory mitigation plans shall be consistent with *Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans—Version 1,* (Ecology Publication #06-06-011b, Olympia, WA, March 2006 or as revised), and *Selecting Wetland Mitigation Sites Using a Watershed Approach (Eastern Washington)* (Publication #10-06-07, November 2010).

2. Mitigation ratios may also be determined using the credit/debit tool describe in "*Calculating Credits and Debits for Compensatory Mitigation in Wetlands of Eastern Washington: Final Report* (Ecology Publication #11-06-045, August 2012), consistent with subsection 8 of this Chapter.

3. Compensating for Lost or Affected Functions. Compensatory mitigation shall address the functions affected by the proposed project, with an intention to achieve functional equivalency or improvement of functions. The goal shall be for the compensatory mitigation to provide similar wetland functions as those lost, except when either:

a. The lost wetland provides minimal functions, and the proposed compensatory mitigation action(s) will provide equal or greater functions or will provide functions shown to be limiting within a watershed through a formal Washington state watershed assessment plan or protocol; or

b. Out-of-kind replacement of wetland type or functions will best meet watershed goals formally identified by the City, such as replacement of historically diminished wetland types.

C. Approaches to Compensatory Mitigation. Mitigation for lost or diminished wetland and buffer functions shall rely on the approaches listed below.

1. Wetland mitigation banks. Credits from a certified wetland mitigation bank may be used to compensate for impacts located within the service area specified in the mitigation bank instrument. Use of credits from a wetland mitigation bank certified under Chapter 173-700 WAC is allowed if:

a. The approval authority determines that it would provide appropriate compensation for the proposed impacts; and

b. The impact site is located in the service area of the bank.

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 31/69 c. The proposed use of credits is consistent with the terms and conditions of the certified mitigation bank instrument.

d. Replacement ratios for projects using bank credits is consistent with replacement ratios specified in the certified mitigation bank instrument.

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

a. The approval authority determines that it would provide environmentally appropriate compensation for the proposed impacts.

b. The proposed use of credits is consistent with the terms and conditions of the approved inlieu-fee program instrument.

c. Projects using in-lieu-fee credits shall have debits associated with the proposed impacts calculated by the applicant's qualified wetland professional using the credit assessment method specified in the approved instrument for the in-lieu-fee program.

d. The impacts are located within the service area specified in the approved in-lieu-fee instrument.

3. Permittee-responsible mitigation. In this situation, the permittee performs the mitigation after the permit is issued and is ultimately responsible for implementation and success of the mitigation. Permittee-responsible mitigation may occur at the site of the permitted impacts or at an off-site location within the same watershed. Permittee-responsible mitigation shall be used only if the applicant's qualified wetland professional demonstrates to the approval authority's satisfaction that the proposed approach is ecologically preferable to use of a bank or ILF program, consistent with the criteria in this section.

D. Types of Compensatory Mitigation. Mitigation for lost or diminished wetland and buffer functions shall rely on a type listed below in order of preference. A lower-preference form of mitigation shall be used only if the applicant's qualified wetland professional demonstrates to the approval authority's satisfaction that all higher-ranked types of mitigation are not viable, consistent with the criteria in this section.

1. Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural or historic functions to a former or degraded wetland. For the purpose of tracking net gains in wetland acres, restoration is divided into:

a. Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural or historic functions to a former wetland. Re-establishment results in a gain in wetland acres (and functions). Activities could include removing fill material, plugging ditches, or breaking drain tiles.

b. Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural or historic functions of a degraded wetland. Rehabilitation results in a gain in wetland function but does not result in a gain in wetland acres. Activities could involve breaching a dike to reconnect wetlands to a floodplain or return tidal influence to a wetland.

2. Establishment (Creation): The manipulation of the physical, chemical, or biological characteristics of a site to develop a wetland on an upland or deepwater site where a wetland did not previously exist. Establishment results in a gain in wetland acres. Activities typically involve excavation of upland soils to elevations that will produce a wetland hydroperiod, create hydric soils, and support the growth of hydrophytic plant species.

If a site is not available for wetland restoration to compensate for expected wetland and/or buffer impacts, the approval authority may authorize creation of a wetland and buffer upon demonstration by the applicant's qualified wetland professional that:

a. The hydrology and soil conditions at the proposed mitigation site are conducive for sustaining the proposed wetland and that creation of a wetland at the site will not likely cause hydrologic problems elsewhere;

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

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 32/69 c. The proposed wetland and buffer will eventually be self-sustaining with little or no long-term maintenance.

3. Enhancement. The manipulation of the physical, chemical, or biological characteristics of a wetland site to heighten, intensify, or improve specific function(s) or to change the growth stage or composition of the vegetation present. Enhancement is undertaken for specified purposes such as water quality improvement, flood water retention, or wildlife habitat. Enhancement results in a change in some wetland functions and can lead to a decline in other wetland functions, but does not result in a gain in wetland acres. Activities typically consist of planting vegetation, controlling non-native or invasive species, modifying site elevations or the proportion of open water to influence hydroperiods, or some combination of these activities. Applicants proposing to enhance wetlands or associated buffers shall demonstrate how the proposed enhancement will increase the wetland's/buffer's functions, how this increase in function will adequately compensate for the impacts, and how existing wetland functions at the mitigation site will be protected.

4. Protection/Maintenance (Preservation). Removing a threat to, or preventing the decline of, wetland conditions by an action in or near a wetland. This includes the purchase of land or easements, or repairing water control structures or fences. This term also includes activities commonly associated with the term preservation. Preservation does not result in a gain of wetland acres. Permanent protection of a Category I or II wetland and associated buffer at risk of degradation can be used only if:

a. The approval authority determines that the proposed preservation is the best mitigation option;

b. 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;

c. The area proposed for preservation is of high quality or critical for the health of the watershed or basin due to its location. Some of the following features may be indicative of high-quality sites:

i. Category I or II wetland rating (using the wetland rating system for westernEastern Washington)

ii. Rare or irreplaceable wetland type (for example, bogs, mature forested wetlands, estuarine wetlands) or aquatic habitat that is rare or a limited resource in the area;

iii. The presence of habitat for priority or locally important wildlife species; or also list has provides biological and/or hydrological connectivity;

iv. Provides biological and/or hydrological connectivity;

v. Priority sites in an adopted watershed plan.

d. Permanent preservation of the wetland and buffer will be provided through a conservation easement or tract held by an appropriate natural land resource manager, such as a land trust.

e. The approval authority may approve other legal and administrative mechanisms in lieu of a conservation easement if it determines they are adequate to protect the site.

f. Ratios for preservation in combination with other forms of mitigation generally range from 10:1 to 20:1, as determined on a case-by-case basis, depending on the quality of the wetlands being impacted and the quality of the wetlands being preserved. Ratios for preservation as the sole means of mitigation generally start at 20:1.

E. Location of Compensatory Mitigation. Compensatory mitigation actions shall generally be conducted within the same sub-drainage basin and on the site of the alteration except when the applicant can demonstrate that off-site mitigation is ecologically preferable. The following criteria will be evaluated when determining whether the proposal is ecologically preferable. When considering off-site mitigation, preference should be given to using alternative mitigation, such as a mitigation bank, an in-lieu-fee program, or advance mitigation.

1. There are no reasonable opportunities on site or within the sub-drainage basin (e.g., on-site options would require elimination of high-functioning upland habitat), or opportunities on site or within the sub-drainage basin do not have a high likelihood of success based on a determination of the capacity of the site to compensate for the impacts. Considerations should include: anticipated replacement ratios for wetland mitigation, buffer conditions and proposed widths, available water to maintain anticipated hydrogeomorphic classes of wetlands

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 33/69 when restored, proposed flood storage capacity, and potential to mitigate riparian fish and wildlife impacts (such as connectivity);

2. On-site mitigation would require elimination of high-quality upland habitat.

3. Off-site mitigation has a greater likelihood of providing equal or improved wetland functions than the altered wetland.

4. Off-site locations shall be in the same sub-drainage basin unless:

a. Established watershed goals for water quality, flood storage or conveyance, habitat, or other wetland functions have been established by the City and strongly justify location of mitigation at another site; or

b. Credits from a state-certified wetland mitigation bank are used as compensation, and the use of credits is consistent with the terms of the certified bank instrument;

c. Fees are paid to an approved in-lieu fee program to compensate for the impacts.

d. The design for the compensatory mitigation project needs to be appropriate for its location (i.e., position in the landscape). Therefore, compensatory mitigation should not result in the creation, restoration, or enhancement of an atypical wetland.

F. Timing of Compensatory Mitigation.

1. It is preferred that compensatory mitigation projects be completed prior to activities that will disturb wetlands. At the least, compensatory mitigation shall be completed immediately following disturbance and prior to use or occupancy of the action or development. Construction of mitigation projects shall be timed to reduce impacts to existing fisheries, wildlife, and flora.

2. The Administrator may authorize a one-time temporary delay in completing construction or installation of the compensatory mitigation when the applicant provides a written explanation from a qualified wetland professional as to the rationale for the delay. An appropriate rationale would include identification of the environmental conditions that could produce a high probability of failure or significant construction difficulties (e.g., project delay lapses past a fisheries window, or installing plants should be delayed until the dormant season to ensure greater survival of installed materials). The delay shall not create or perpetuate hazardous conditions or environmental damage or degradation, and the delay shall not be injurious to the health, safety, or general welfare of the public. The request for the temporary delay must include a written justification that documents the environmental constraints that preclude implementation of the compensatory mitigation plan. The justification must be verified and approved by the City.

G. Wetland Mitigation Ratios:

<u>Category and Type of</u> <u>Wetland</u>	<u>Creation or</u> <u>Re-establishment</u>	Rehabilitation	<u>Enhancement</u>
Category I: Bog, Natural Heritage Site	Not considered possible	Case by Case	Case by Case
Category I: Mature Forested	<u>6:1</u>	<u>12:1</u>	<u>24:1</u>
Category I: Based on functions	<u>4:1</u>	<u>8:1</u>	<u>16:1</u>
Category II	<u>3:1</u>	<u>6:1</u>	<u>12:1</u>
Category III	<u>2:1</u>	<u>4:1</u>	<u>8:1</u>
Category IV	<u>1.5:1</u>	<u>3:1</u>	<u>6:1</u>

Ratios for rehabilitation and enhancement may be reduced when combined with 1:1 replacement through creation or re-establishment. See Table 1b. *Wetland Mitigation in Washington State – Part 1: Agency Policies and Guidance--Version 1*, (Ecology Publication #06-06-011a, Olympia, WA, March 2006 or as revised). See also Paragraph D.4 for more information on using preservation as compensation.

H. Credit/Debit Method. To more fully protect functions and values, and as an alternative to the mitigation ratios found in the joint guidance "*Wetland Mitigation in Washington State Parts I and II*" (Ecology Publication #06-06-011a-b, Olympia, WA, March, 2006), the administrator may allow mitigation based on the "credit/debit" method developed by the Department of Ecology in "*Calculating Credits and Debits for Compensatory Mitigation in Wetlands of Eastern Washington: Final Report*" (Ecology Publication #11-06-015, August 2012, or as revised).

L. Compensatory Mitigation Plan. When a project involves wetland and/or buffer impacts, a compensatory mitigation plan prepared by a qualified professional shall be required, meeting the following minimum standards:

<u>1. Wetland Critical Area Report. A critical area report for wetlands must accompany or be included</u> in the compensatory mitigation plan and include the minimum parameters identified in YMC 15.27.314 and 15.27.315.B.

2. Compensatory Mitigation Report. The report must include a written report and plan sheets that must contain, at a minimum, the following elements. Full guidance can be found in *Wetland Mitigation in Washington State–Part 2: Developing Mitigation Plans* (Version 1) (Ecology Publication #06-06-011b, Olympia, WA, March 2006 or as revised).

a. The written report must contain, at a minimum:

i. The name and contact information of the applicant; the name, qualifications, and contact information for the primary author(s) of the compensatory mitigation report; a description of the proposal; a summary of the impacts and proposed compensation concept; identification of all the local, state, and/or federal wetland-related permit(s) required for the project; and a vicinity map for the project.

ii. Description of how the project design has been modified to avoid, minimize, or reduce adverse impacts to wetlands.

iii. Description of the existing wetland and buffer areas proposed to be impacted. Include acreage (or square footage), water regime, vegetation, soils, landscape position, surrounding lands uses, and functions. Also describe impacts in terms of acreage by Cowardin classification, hydrogeomorphic classification, and wetland rating, based on Wetland Ratings, YMC 15.27.603.

iv. Description of the compensatory mitigation site, including location and rationale for selection. Include an assessment of existing conditions: acreage (or square footage) of wetlands and uplands, water regime, sources of water, vegetation, soils, landscape position, surrounding land uses, and functions. –Estimate future conditions in this location if the compensation actions are NOT undertaken (i.e., how would this site progress through natural succession?).

v. Surface and subsurface hydrologic conditions, including an analysis of existing and proposed hydrologic regimes for enhanced, created, or restored compensatory mitigation areas. Include illustrations of how data for existing hydrologic conditions were used to determine the estimates of future hydrologic conditions

vi. A description of the proposed actions for compensation of wetland and upland areas affected by the project. Include overall goals of the proposed mitigation, including a description of the targeted functions, hydrogeomorphic classification, and categories of wetlands.

vii. A description of the proposed mitigation construction activities and timing of activities.

viii. Performance standards (measurable standards for years post-installation) for upland and wetland communities, a monitoring schedule, and a maintenance schedule and actions proposed by year.

ix. A discussion of ongoing management practices that will protect wetlands after the development project has been implemented, including proposed monitoring and maintenance programs (for remaining wetlands and compensatory mitigation wetlands).

x. A bond estimate for the entire compensatory mitigation project, including the following elements: site preparation, plant materials, construction materials, installation oversight, maintenance twice per year for up to five (5) years, annual monitoring field work and reporting, and contingency actions for a maximum of the total required number of years for monitoring.

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 35/69 xi. Proof of establishment of Notice on Title for the wetlands and buffers on the project site, including the compensatory mitigation areas.

b. The scaled plan sheets for the compensatory mitigation must contain, at a minimum:

i. Surveyed edges of the existing wetland and buffers, proposed areas of wetland and/or buffer impacts, location of proposed wetland and/or buffer compensation actions.

ii. Existing topography, ground-proofed, at two-foot contour intervals in the zone of the proposed compensation actions if any grading activity is proposed to create the compensation area(s). Also existing cross-sections of on-site wetland areas that are proposed to be impacted, and cross-section(s) (estimated one-foot intervals) for the proposed areas of wetland or buffer compensation.

iii. Conditions expected from the proposed actions on site, including future hydrogeomorphic types, vegetation community types by dominant species (wetland and upland), and future water regimes.

iv. Required wetland buffers for existing wetlands and proposed compensation areas. Also, identify any zones where buffers are proposed to be reduced or enlarged outside of the standards identified in this Chapter.

v. A planting plan for the compensation area, including all species by proposed community type and water regime, size and type of plant material to be installed, spacing of plants, typical clustering patterns, total number of each species by community type, and timing of installation.

3. Buffer Mitigation Ratios. Impacts to buffers shall be mitigated at a minimum 1:1 ratio. Compensatory buffer mitigation shall replace those buffer functions lost from development.

4. Protection of the Mitigation Site. The area where the mitigation occurred and any associated buffer shall be located in a critical area tract or a conservation easement consistent with YMC 15.27 Part six.

5. Monitoring. Mitigation monitoring shall be required for a period necessary to establish that performance standards have been met, but not for a period less than five years. If a scrub-shrub or forested vegetation community is proposed, monitoring may be required for ten years or more. The project mitigation plan shall include monitoring elements that ensure certainty of success for the project's natural resource values and functions. If the mitigation goals are not obtained within the initial five-year period, the applicant remains responsible for restoration of the natural resource values and functions until the mitigation goals agreed to in the mitigation plan are achieved.

6. Advance Mitigation. Mitigation for projects with pre-identified impacts to wetlands may be constructed in advance of the impacts if the mitigation is implemented according to federal rules, state policy on advance mitigation, and state water quality regulations consistent with *Interagency Regulatory Guide: Advance Permittee-Responsible Mitigation* (Ecology Publication #12-06-015, Olympia, WA, December 2012).

7. Alternative Mitigation Plans. The administrative official or designee Administrator-may approve alternative wetland mitigation plans that are based on best available science, such as priority restoration plans that achieve restoration goals identified in the SMP. Alternative mitigation proposals must provide an equivalent or better level of protection of wetland functions and values than would be provided by the strict application of this chapter. The administrative official or designee Administrative Official shall consider the following for approval of an alternative mitigation proposal:

a. The proposal uses a watershed approach consistent with *Selecting Wetland Mitigation Sites Using a Watershed Approach (Eastern Washington)* (Ecology Publication #10-06-07, November 2010).

b. Creation or enhancement of a larger system of natural areas and open space is preferable to the preservation of many individual habitat areas.

c. Mitigation according to Section FYMC 15.27.605(D) is not feasible due to site constraints such as parcel size, stream type, wetland category, or geologic hazards.

d. There is clear potential for success of the proposed mitigation at the proposed mitigation site.

e. The plan shall contain clear and measurable standards for achieving compliance with the specific provisions of the plan. A monitoring plan shall, at a minimum, meet the provisions in <u>Section JYMC</u> <u>15.27.605(I)</u>.

f. The plan shall be reviewed and approved as part of overall approval of the proposed use.

g. A wetland of a different type may be justified based on regional needs or functions and values; the replacement ratios may not be reduced or eliminated unless the reduction results in a preferred environmental alternative.

h. Mitigation guarantees shall meet the minimum requirements as outlined in Section YMC 15.27. <u>10.B.i.8605(I)(2)(a)(viii).</u>

i. Qualified professionals in each of the critical areas addressed shall prepare the plan.

j. The City may consult with agencies with expertise and jurisdiction over the critical areas during the review to assist with analysis and identification of appropriate performance measures that adequately safeguard critical areas.

Projects that propose compensation for wetland acreage and/or functions are subject to state and federal regulations. Compensatory mitigation for alterations to wetlands shall provide for no net loss of wetland functions and values, and must be consistent with the mitigation plan requirements of YMC 15.27.314(M). The following documents were developed to assist applicants in meeting the above requirements:

A. Compensatory mitigation plans must be consistent with "Guidance on Wetland Mitigation in Washington State Part 2: Guidelines for Developing Wetland Mitigation Plans and Proposals" or as revised (Washington State Department of Ecology, U.S. Army Corps of Engineers Seattle District, and U.S. Environmental Protection Agency Region 10; Ecology Publication No. 04 06 013B).

B. Compensatory mitigation application and ratios for mitigation of wetlands shall be consistent with "Wetlands in Washington State Volume 2: Guidance for Protecting and Managing Wetlands Appendix 8 D Section 8 D3" or as revised (Washington State Department of Ecology. Publication No. 05 06 008). (Ord. 2008 46 § 1 (part), 2008).

15.27.605 Wetland mitigation banks.

A. Credits from a wetland mitigation bank may be approved for use as compensation for unavoidable impacts to wetlands when:

1. The bank is certified under RCW Chapter 90.84 or WAC Chapter 173 700;

2. The administrative official determines that the wetland mitigation bank can provide appropriate compensation for the authorized impacts; and

3. The proposed use of credits is consistent with the terms and conditions of the bank's certification.

B. Replacement ratios for projects using bank credits shall be consistent with replacement ratios specified in the bank's certification.

C. Credits from a certified wetland mitigation bank may be used to compensate for impacts located within the service area specified in the bank's certification. In some cases, bank service areas may include portions of more than one adjacent drainage basin for specific wetland functions. (Ord. 2008 46 § 1 (part), 2008).

Part Seven. Geologically Hazardous Areas

15.27.701 Mapping and designation.

A. Geologically hazardous areas are areas that are susceptible to one or more of the following, based on WAC 365-190-080(4)(b) through (h):

- 1. Erosion hazards;
- 2. Landslide hazards, which include:

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- a. Oversteepened slopes;
- b. Alluvial fan/flash flooding;
- c. Avalanche; and
- d. <u>Stream-Channel migration zones and stream</u> undercutting;
- 3. Seismic hazards (referred to below as earthquake hazards); and
- 4. Volcanic hazards.

C. The approximate location and extent of geologically hazardous areas are shown on the city's critical area map titled "Geologically Hazardous Areas of the City of Yakima." The following geologically hazardous areas have been mapped and classified using the criteria found in WAC 365-190-<u>120080(4)(b) through (h)</u>:

15.27.702 Geologically hazardous areas protection approach.

The geologically hazardous areas protection approach can be met by following the guidelines below and by implementing the appropriate sections of the Building Code as adopted in YMC Title 11.

A. Erosion Hazard Areas. Protection measures for erosion hazard areas will be accomplished by implementing the regulatory standards for erosion and drainage control required under YMC Title 11, building code. YMC Title 11 requirements can be met by the application of the Best Management Practices (BMPs) in the <u>Stormwater</u> <u>Management Manual for Eastern Washington Stormwater Manual (WDOEcology</u> publication number 04-10-076, or <u>most recent version</u>); equivalent manual adopted by the city of Yakima; or any other approved manual deemed appropriate by the administrative official.

D. Stream Undercutting Hazard Areas. Protection measures for stream undercutting hazard areas will be accomplished by critical areas review for flood hazards, <u>and streams</u>, and shoreline jurisdiction.

15.27.703 Development review procedure for geologically hazardous areas.

B. Developments that receive an affirmative determination of hazard by the administrative official under subsection A of this section must conduct a geologic hazard report as provided in YMC 15.27.315(C), which may be part of a geotechnical report required below.

1. If the geologic hazard report determines that no hazard exists or that the project area lies outside the hazard, then no geologic hazard review is needed.

2. The administrative official is authorized to waive further geologic hazard review for oversteepened slopes on the basis that the hazards identified by the geologic hazard report will be adequately mitigated through conditions applied to the issuance of a grading or construction permit.

Part Eight. Critical Aquifer Recharge Areas (CARA)

15.27.810 Maps and Reference Documentsping.

A. Mapping Methodology. The CARA is depicted in the map titled "Critical Aquifer Recharge Areas of the City of Yakima" located within the city of Yakima's 2006-2017 Urban Area-Comprehensive Plan 20252040. The CARA map was developed through a geographic information system (GIS) analysis using the methodology outlined in the Washington Department of Ecology-"*Critical Aquifer Recharge Areas Guidance Document* for the Establishment of Critical Aquifer Recharge Area Ordinances" (Publication No. 97-30Morgan 2005). The approximate location and extent of critical aquifer recharge areas are depicted on the above-mentioned map, and are to be used solely as a guide for the city. The CARA map estimates areas of moderate, high, and extreme susceptibility to contamination, as well as wellhead protection areas. In characterizing the hydrogeologic susceptibility of these recharge areas with regard to contamination, the following physical characteristics were utilized:

B. Guidance Documents. The latest guidance documents shall be consulted when updating CARA maps:

1. U.S. Department of Agriculture Soil Survey: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

2. Washington Department of Health Group A and B Maps: https://fortress.wa.gov/doh/eh/maps/SWAP/index.html

3. Soil Survey of Yakima County Area, Washington (report only): http://nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/washington/yakimaWA1985/yakimaWA1985-I.pdf

4. City of Yakima Wellhead Protection Plan: http://www.yakimacounty.us/669/City-of-Yakima-Wellhead-Protection-Plan

5. —Hydrogeologic Framework of Sedimentary Deposits in Six Structural Basins, Yakima River Basin, Washington: http://pubs.usgs.gov/sir/2006/5116/pdf/sir20065116.pdf and Yakima Basin plate http://pubs.usgs.gov/sir/2006/5116/pdf/sir20065116_plate4.pdf

15.27.820 Protection approach.

A. Classification and Rating of Critical Aquifer Recharge Areas. To promote consistent application of the standards and requirements of this section, Critical Aquifer Recharge Areas within the City shall be rated or classified according to their characteristics, function and value, and/or their sensitivity to disturbance.

1. Critical Aquifer Recharge Areas Classification. Critical aquifer recharge areas are those areas with a critical recharging effect on aquifers used for potable water. Wellhead protection involves the management of activities that have a potential to degrade the quality of groundwater produced by a supply well. The City is classified into four wellhead protection zones that are based on proximity to and travel time of groundwater to Group A and Group B water source wells within the City limits, and are designated using guidance from the Washington Department of Health Wellhead Protection Program pursuant to Chapter 246-290 WAC.

a. Wellhead Protection Zone 1 represents the land area overlying the six-month time-of-travel zone of any Group A water source well and/or land area overlying any Group B wellhead protection area.

b. Wellhead Protection Zone 2 represents the land area that overlies the one-year time-of-travel zone of any Group A water source well, excluding the land area contained within Wellhead Protection Zone 1.

c. Wellhead Protection Zone 3 represents the land area that overlies the five-year and ten-year timeof-travel zones of any Group A water source well, excluding the land area contained within Wellhead Protection Zones 1 or 2.

d. Wellhead Protection Zone 4 represents all the remaining land area in the City not included in Wellhead Protection Zones 1, 2, or 3.

2. Classification of wellhead protection zones shall be determined in accordance with the City's Wellhead Protection Plan and the Washington State Department of Health, Office of Drinking Water, Source Water Assessment Program (SWAP) Mapping Application, which designates time of travel and wellhead protection zones that correspond to Zones 1 through 4, noted in subsection 1 above.

B. Prohibited Activities in Wellhead Protection Zones.

1. Land uses or activities for new development or redevelopment that pose a significant hazard to the City's groundwater resources, resulting from storing, handling, treating, using, producing, recycling, or disposing of hazardous materials or other deleterious substances, shall be prohibited in Wellhead Protection Zones 1 and 2. These land uses and activities include, but are not limited to:

a. Large on-site sewage systems, as defined in WAC Chapter 246-272A;

b. Hazardous liquid pipelines as defined in RCW Chapter 81.88;

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 39/69 c. Solid waste landfills or transfer stations, including hazardous or dangerous waste, municipal solid waste, special waste, wood waste, and inert and demolition waste;

d. Liquid petroleum refining, reprocessing, and storage;

e. Bulk storage facilities;

f. Hard rock and sand and gravel mining, unless located within the mineral resource designation;

g. The storage or distribution of gasoline treated with the additive methyl tertiary butyl ether;

h. Hazardous waste treatment, storage, and disposal facilities except those defined under permit by rule for industrial wastewater treatment processes per WAC 173-303-802(5)(a);

i. Chemical manufacturing, including but not limited to, organic and inorganic chemicals, plastics and resins, pharmaceuticals, cleaning compounds, paints and lacquers, and agricultural chemicals;

j. Dry cleaning establishments using the solvent perchloroethylene or similarly toxic compounds;

k. Primary and secondary metal industries that manufacture, produce, smelt, or refine ferrous and nonferrous metals from molten materials;

<u>l.</u> Wood treatment facilities that allow any portion of the treatment process to occur over permeable surfaces (both natural and manmade);

m. Mobile fleet fueling operations;

n. Class I, Class II, Class IV, and the following types of Class V wells: 5A7, 5F01, 5D03, 5F04, 5W09, 5W10, 5W11, 5W31, 5X13, 5X14, 5X15, 5W20, 5X28, and 5N24 as regulated under RCW Chapter 90.48 and WAC Chapters 173-200 and 173-218, as amended;

o. Permanent dewatering of the aquifer for new projects and redevelopment;

p. Facilities that store, process, or dispose of radioactive substances; and

q. Irrigation with graywater or reclaimed water.

2. Other land uses and activities that the City determines would pose a significant groundwater hazard to Group A and Group B groundwater supplies within the City limits, or would significantly reduce the recharge to aquifers currently or potentially used as a potable water source.

C. Wellhead Protection Zone Performance Standards.

1. Activities may only be permitted in a critical aquifer recharge area if the applicant can show that the proposed activity will not cause contaminants to enter the aquifer and that the proposed activity will not adversely affect the recharging of the aquifer.

2. Any uses or activities which involve storing, handling, treating, using, producing, recycling, or disposing of hazardous materials or other deleterious substances shall comply with the following standards that apply to the wellhead protection zone in which they are located. Residential uses of hazardous materials or deleterious substances are exempt from the following standards.

3. If a property is located in more than one wellhead protection zone, the Director of Community Development shall determine which standards shall apply based on an assessment evaluation of the risk posed by the facility or activity. The assessment evaluation shall include, but not be limited to:- (a) the location, type, and quantity of the hazardous materials or deleterious substances on the property; (b) the geographic and geologic characteristics of the site; and (c) the type and location of infiltration on the site.

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 40/69 4. Development within Wellhead Protection Zones 1 or 2, and any facility or activity existing as of adoption of this Title within which hazardous materials or other deleterious substances are present, shall implement the following relevant performance standards:

a. Secondary Containment.

i. The owner or operator of any facility or activity shall provide secondary containment for hazardous materials or other deleterious substances in aggregate quantities equal to or greater than 20 gallons liquid or 200 pounds solid or in quantities specified in the Yakima Fire Code, YMC Chapter 10.05, whichever is smaller.

ii. Hazardous materials stored in tanks that are subject to regulation by the Washington State Department of Ecology (Ecology) under WAC Chapter 173-360, Underground Storage Tank Regulations, are exempt from the secondary containment requirements of this section, provided that documentation is provided to demonstrate compliance with those regulations.

b. Vehicle Fueling, Maintenance, and Storage Areas. Fleet and automotive service station fueling, equipment maintenance, and vehicle washing areas shall have a containment system for collecting and treating all runoff from such areas and preventing release of fuels, oils, lubricants, and other automotive fluids into soil, surface water, or groundwater. Appropriate emergency response equipment and spill kits shall be kept on-site during transfer, handling, treatment, use, production, recycling, or disposal of hazardous materials or other deleterious substances.

c. Loading and Unloading Areas. Secondary containment or equivalent Best Management Practices (BMPs), as approved by the Director of Public Works, shall be required at loading and unloading areas that store, handle, treat, use, produce, recycle, or dispose of hazardous materials or other deleterious substances in aggregate quantities equal to or greater than 20 gallons liquid or 200 pounds solid.

d. Stormwater Infiltration Systems. Design and construction of new stormwater infiltration systems must address site-specific risks of releases posed by all hazardous materials on-site. These risks may be mitigated by physical design means or equivalent BMPs in accordance with an approved Hazardous Materials Management Plan. Design and construction of said stormwater infiltration systems shall also be in accordance with YMC Chapter 7.83 and the latest edition of the Stormwater Management Manual for Eastern Washington, approved local equivalent, or another technical stormwater manual approved by Ecology, and shall be certified for compliance with the requirements of this section by a professional engineer or engineering geologist registered in the State of Washington.

e. The record and construction details of any well regulated under Chapter 173-160 WAC, Construction and Maintenance of Wells, and any well excluded per WAC 173-160-010(2) that is constructed or decommissioned in Zones 1 and 2, shall be provided to the Department of Community Development within 60 days of well completion or decommissioning.

f. Protection Standards During Construction. The following standards shall apply to construction activities occurring where construction vehicles will be refueled on-site and/or the quantity of hazardous materials that will be stored, dispensed, used, or handled on the construction site is in aggregate quantities equal to or greater than 20 gallons liquid or 200 pounds solid, exclusive of the quantity of hazardous materials contained in fuel or fluid reservoirs of construction vehicles. As part of the City's project permitting process, the City may require any or all of the following items:

i. A development agreement;

ii. Detailed monitoring and construction standards;

<u>iii.</u> Designation of a person on-site during operating hours who is responsible for supervising the use, storage, and handling of hazardous materials and who has appropriate knowledge and training to take mitigating actions necessary in the event of fire or spill;

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 41/69 iv. Hazardous material storage, dispensing, refueling areas, and use and handling areas shall be provided with secondary containment adequate to contain the maximum release from the largest volume container of hazardous substances stored at the construction site;

v. Practices and procedures to ensure that hazardous materials left on-site when the site is unsupervised are inaccessible to the public. Locked storage sheds, locked fencing, locked fuel tanks on construction vehicles, or other techniques may be used if they will preclude access;

vi. Practices and procedures to ensure that construction vehicles and stationary equipment that are found to be leaking fuel, hydraulic fluid, and/or other hazardous materials will be removed immediately or repaired on-site immediately. The vehicle or equipment may be repaired in place, provided the leakage is completely contained;

vii. Practices and procedures to ensure that storage and dispensing of flammable and combustible liquids from tanks, containers, and tank trucks into the fuel and fluid reservoirs of construction vehicles or stationary equipment on the construction site are in accordance with the Yakima Fire Code, YMC Chapter 10.05; and

viii. Practices and procedures, and/or on-site materials adequate to ensure the immediate containment and cleanup of any release of hazardous substances stored at the construction site. On-site cleanup materials may suffice for smaller spills whereas cleanup of larger spills may require a subcontract with a qualified cleanup contractor. Releases shall immediately be contained, cleaned up, and reported if required under state or federal law. Contaminated soil, water, and other materials shall be disposed of according to state and local requirements.

g. Fill Materials. Fill material shall comply with the standards in YMC Chapter 7.82 and the following:

i. Fill material shall not contain concentrations of contaminants that exceed cleanup standards for soil specified in WAC 173-340-740, Model Toxics Control Act, regardless of whether all or part of the contamination is due to natural background levels at the fill source site. Where the detection limit (lower limit at which a chemical can be detected by a specified laboratory procedure) for a particular soil contaminant exceeds the cleanup standard for soil specified in WAC 173-340-740, the detection limit shall be the standard for fill material quality.

ii. Fill materials in quantities greater than 10 cubic yards placed directly on or in the ground in excess of six months shall meet the following requirements:

1. A fill material source statement shall be provided to the Department of Community Development and shall be reviewed and accepted by the Department prior to stockpiling or grading imported fill materials at the site. The source statement shall be issued by a professional engineer, geologist, engineering geologist or hydrogeologist licensed in the State of Washington demonstrating the source's compliance with standards of the Model Toxics Control Act. The source statement shall be required for each different source location from which fill will be obtained.

2. Analytical results demonstrating that fill materials do not exceed cleanup standards specified in WAC 173-340-740 may be used in lieu of a fill material source statement, provided the regulated facility submits a sampling plan to, and which is approved by, the Director of Community Development. The regulated facility must then adhere to the approved sampling plan, and maintain analytical data on-site and available for inspection for a minimum of five years from the date that the fill was accepted.

iii. The Department of Community Development may accept a fill material source statement that does not include results of sampling and analysis of imported fill if it determines that adequate

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 42/69 information is provided indicating that the source location is free of contamination. Such information may include, but is not limited to:

1. Results of field testing of earth materials to be imported to the site with instruments capable of detecting the presence of contaminants; or

2. Results of previous sampling and analysis of earth materials to be imported to the site.

iv. A fill material source statement is not required if documents confirm that imported fill will be obtained from a Washington State Department of Transportation approved source.

v. The Director of Community Development shall have the authority to require corrective measures regarding noncompliant fill materials, including independent sampling and analysis, if the property owner or operator fails to accomplish such measures in a timely manner. The property owner or operator shall be responsible for any costs incurred by the City in the conduct of such activities.

h. Cathodic Protection Wells. Cathodic protection wells shall be constructed such that the following do not occur.

i. Vertical cross-connection of aquifers normally separated by confining units;

ii. Migration of contaminated surface water along improperly sealed well borings or casings;

iii. Introduction of electrolytes or related solutions into the subsurface; and

iv. Any of the above conditions caused by improperly abandoned cathodic protection wells that are no longer in use.

i. Underground Hydraulic Elevator Cylinders. All underground hydraulic elevator pressure cylinders shall be encased in an outer plastic casing constructed of Schedule 40 or thicker-wall polyethylene or polyvinyl chloride pipe, or equivalent. The plastic casing shall be capped at the bottom, and all joints shall be solvent- or heat-welded to ensure water tightness. The neck of the plastic casing shall provide a means of inspection to monitor the annulus between the pressurized hydraulic elevator cylinder and the protective plastic casing.

j. Best Management Practices (BMPs). All development or redevelopment shall implement BMPs for water quality and quantity, as approved by the Director of Community Development, such as biofiltration swales and use of oil-water separators, BMPs appropriate to the particular use proposed, clustered development, and limited impervious surfaces.

5. Development within Wellhead Protection Zone 3 shall implement appropriate BMPs and comply with the performance standards for vehicle fueling, maintenance, and storage areas; loading and unloading areas; well construction and operation; fill materials; cathodic protection wells; and underground hydraulic elevator cylinders in applicable subsections in C.4 of this section.

6. Development within Wellhead Protection Zone 4 shall implement BMPs for water quality and quantity.

7. An incremental environmental improvement to a system protective of groundwater shall not alter, expand, or intensify an existing legal nonconformance, but may proceed without having to meet the following <u>City codes:</u>

a. Restrictions associated with critical areas and critical area buffers, if the footprint of the original system protective of groundwater is located within the same critical area buffer, and it can be demonstrated through BAS that there will be no significant adverse impacts to the critical area and its buffer;

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 43/69 b. Any requirement to bring all or any portion of the facility or the development it serves up to current building, fire, or land use codes that is triggered by the value or design of the incremental environmental improvement to a system protective of groundwater; and

c. The incremental improvement shall not qualify as a redevelopment that would otherwise be prohibited by Title 15 YMC.

A. Maps shall be used only as an informational resource to communicate with applicants regarding potential problems in meeting the applicable laws on a particular site. The maps indicate that areas of high susceptibility tend to be located in valley bottoms and follow along floodplain and stream corridors. Extreme susceptibility locations are located largely within floodplains and along streams and wetlands.

B. Land uses are subject to many existing federal, state, local, or tribal laws regarding the handling of substances that may contaminate CARAs. Disclosure, educational information, and coordination of existing laws during existing review processes can accomplish the requirement to protect the CARA. Consequently, the city of Yakima's protection of the CARA shall be accomplished through normal project permit review under various Yakima Municipal Code sections, especially the stream protection standards in this chapter (Part Five, Fish and Wildlife Habitat and the Stream Corridor System); YMC Title 11, which provides detailed construction, use, and fire/life safety standards for the storage and handling of dangerous and hazardous substances to a greater extent than most existing state and federal laws.

C. The administrative official shall develop and maintain a list of the relevant laws noted above. This list shall be informational and it is intended to be used in coordination with development permit review. This list shall be periodically reviewed and updated so as to provide the most comprehensive list possible to inform project applicants of the requirements of other agencies.

D. The administrative official shall also develop and maintain a table of land uses with the potential of being subject to the relevant laws noted above. The table shall be generated and maintained using the intent stated in YMC 15.27.800(D).

E. The administrative official and water/irrigation manager shall cooperatively develop questionnaires, to be filled out by new development permit applicants, which comprehensively establish the potential use, storage, and handling methods within the project for substances that have the potential to contaminate groundwater. The questionnaires are intended to ensure full application of existing building and construction codes related to such substances in order to forestall new regulations.

F. The administrative official and water/irrigation manager shall develop technical assistance and information materials to assist landowners and developers with understanding and meeting relevant existing federal, state, and local laws relating to CARAs. (Ord. 2009 42 § 12, 2009: Ord. 2008 46 § 1 (part), 2008).

YMC Title 17 SHORELINES

17.01.090 Definitions.

"Fill" means the addition of soil, sand, rock, gravel, sediment, earth retaining structure, or other material to an area waterward of the OHWM, in wetlands, or on shorelands in a manner that raises the elevation or creates dry land. The physical structure of a shore-bank stabilization structure shall not be considered fill. However, fill placed behind the structure is considered fill. Stream bed manipulation for irrigation diversions or restoration shall not be considered fill.

"Fish and wildlife habitat conservation" means land management for maintaining populations of species in suitable habitats within their natural geographic distribution so that the habitat available is sufficient to support viable populations over the long term and isolated subpopulations are not created. This does not mean maintaining all individuals of all species at all times, but it does mean not degrading or reducing populations or habitats so that they

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 44/69 are no longer viable over the long term. Counties and cities should engage in cooperative planning and coordination to help assure long term population viability.

"Fish and wildlife habitat conservation areas" are areas that serve a critical role in sustaining needed habitats and species for the functional integrity of the ecosystem, and which, if altered, may reduce the likelihood that the species will persist over the long term. These areas may include, but are not limited to, rare or vulnerable ecological systems, communities, and habitat or habitat elements including seasonal ranges, breeding habitat, winter range, and movement corridors; and areas with high relative population density or species richness. Counties and cities may also designate locally important habitats and species. Fish and wildlife habitat conservation areas does not include such artificial features or constructs as irrigation delivery systems, irrigation infrastructure, irrigation canals, or drainage ditches that lie within the boundaries of, and are maintained by, a port district or an irrigation district or company.

"Habitats of local importance" are designated as fish and wildlife habitat conservation areas based on a finding by the city that they are locally important.

<u>"Hydrologically related critical areas (HRCA)" include all those areas identified in YMC 17.09.030(C) within the city of</u> Yakima which are important and deserving of protection by nature of their value for the functional properties found in <u>YMC 17.09.030(E)</u>.

"Ordinary high water mark" (OHWM) means that mark on lakes and streams which will be found by examining the bed and banks and ascertaining where the presence and action of waters are so common and usual, and so long continued in ordinary years, as to mark upon the soil or vegetation a character distinct from that of the abutting upland. Provided, that in any area where the ordinary high water line cannot be found, the ordinary high water line is the elevation of the mean annual flood.

"Scour" means the removal of underwater material by waves and currents, especially at the base or toe of a shore-bank stabilization or other in-water structure.

"Species of local importance" are those species that are of local concern due to their population status or their sensitivity to habitat alteration or that are game species.

"Stream corridor," as used in this title, means those features listed and described in YMC 17.09.030(C).

"Vegetative buffer" or "buffer" means an area extending landward from the ordinary high water mark of a lake or stream and/or from the edge of a wetland which is maintained or otherwise allowed to provide, under optimal conditions, adequate soil conditions and native vegetation for the performance of the basic functional properties of a fish and wildlife conservation areastream corridor, wetland and other hydrologically related critical areas as set forth in YMC 17.09.030(E) (Functional Properties) and YMC 17.09.040(D) (Wetland Functions and Rating). It is understood that optimal conditions do not always exist due to degradation of the vegetative buffer before establishment of this title, or due to colonization by nonnative species. Such conditions still provide functional properties, though at a lower level, depending on the difference from natural conditions.

"Waters of the state" are all lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

17.09.020 Flood hazard areas.

FLOODWAY FRINGE USES

J. Permitted Uses. The following uses are permitted in the floodway fringe areas:

1. Permitted Uses. Any use permitted in the zoning district in accordance with YMC Title 15 and in the environment designation in accordance with this title, unless prohibited by subsection K of this section; that said use is in compliance with the flood hazard protection standards of YMC 17.09.020(H) and other applicable provisions of this Title and will have a negligible effect upon the floodway in accordance with the floodway encroachment provisions of YMC 17.09.020(J)(2).

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- 2. All new encroachments, including fill, new construction and other development, if certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall not materially cause water to be diverted upland of the established floodway fringe, cause erosion, obstruct the natural flow of water, reduce the carrying capacity of the floodway, or result in any increase in flood levels during the occurrence of the base flood discharge;
- 3. All new encroachments, including fill, new construction and other development if:
 - a. The new encroachment is separated from the waterbody by an existing public roadway or legal development.
 - b. The new encroachment is located in a residential zone with a density of greater than 1 unit per acre.
- 4. Utility Transmission Lines. Utility transmission lines shall be permitted when consistent with YMC Title 15 and where not otherwise inconsistent with this section; except that when the primary purpose of such a transmission line is to transfer bulk products or energy through a floodway fringe or special flood hazard area, such transmission line shall conform to the following:

a. Electric transmission lines shall cross floodway fringe and special flood hazard areas by the most direct route feasible. When support towers must be located within floodway fringe or special flood hazard areas, they shall be placed to avoid high floodwater velocity and/or depth areas, and shall be adequately floodproofed.

b. Buried utility transmission lines transporting hazardous materials, including but not limited to crude and refined petroleum products and natural gas, shall be buried a minimum of four feet. Such burial depth shall be maintained within the floodway fringe or special flood hazard area to the maximum extent of potential channel migration as determined by hydrologic analyses. All such hydrologic analyses shall conform to requirements of YMC 17.05.060(C)(3)(c).

c. Beyond the maximum extent of potential channel migration, utility transmission lines transporting hazardous and nonhazardous materials shall be buried below existing natural and artificial drainage features.
 d. Aboveground utility transmission lines, not including electric transmission lines, shall only be allowed for the transportation of nonhazardous materials. In such cases, applicants must demonstrate that line placement will have no appreciable effect upon flood depth, velocity or passage. Such lines shall be adequately protected from flood damage.

e. Aboveground utility transmission line appurtenant structures, including valves, pumping stations or other control facilities, shall not be permitted in floodway fringe or special flood hazard areas except where no other alternative is available, or in the event a floodway fringe or special flood hazard location is environmentally preferable. This does not apply to domestic water and regional wastewater transmission pipes. In such instances, aboveground structures shall be located so that no appreciable effect upon flood depth, velocity or passage is created, and shall be adequately floodproofed.

5. Any use permitted in the zoning district in accordance with YMC Title 15, unless prohibited by YMC 17.09.020(J)(1-4) above may be permitted if a study is prepared by a qualified individual, in accordance with this Title, that addresses whether the encroachment would have an adverse impact on fish and wildlife and/or floodplain functions.

K. Prohibited Uses.

The following uses are prohibited in the floodway fringe areas:

1. Any structure, including manufactured homes and the expansion of manufactured home/parks, designed for or to be used for human habitation of a permanent nature (including temporary dwellings authorized by YMC 15.04.130 and 15.04.140) that does not meet the criteria in YMC 17.09.020(J)(1-5); New manufactured home parks and the expansion of manufactured home/parks are prohibited in floodway fringe areas.

2. Any new encroachments, including fill, new construction and other development, unless certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall not materially cause water to be diverted upland of the established floodway fringe, cause erosion, obstruct the natural flow of water,

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 46/69 reduce the carrying capacity of the floodway fringe, or result in any increase in flood levels during the occurrence of the base flood discharge;

<u>3. Construction or reconstruction of residential structures within the designated floodway fringe, except for:</u>
 <u>a. Repairs, reconstruction, or improvements to a structure which do not increase the ground floor area;</u>
 <u>and</u>

b. Repairs, reconstruction or improvements to a structure, the cost of which does not exceed fifty percent of the assessed value of the structure either:

1. Before the repair, reconstruction or improvement is started; or

2. If the structure has been damaged and is being restored, before the damage occurred.

c. Work done on structures to correct existing violations of existing health, sanitary or safety codes, or to structures identified as historic places, shall not be included in the fifty percent.

d. If subsection 2 of this section is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Part Four.

FLOODWAY USES

L. Permitted Uses. Permitted uses include any use permitted in the zoning district in accordance with YMC Title 15 and in the environment designation in accordance with this title; provided, that said use is in compliance with the flood hazard protection standards of subsections H and I of this section, YMC 17.05.050 and other applicable provisions of this title, and will have a negligible effect upon the floodway as certified by a registered professional engineer through hydrologic and hydraulic analysis performed in accordance with standard engineering practice. The analysis must demonstrate that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall not:

1. Materially cause water to be diverted from the established floodway;

2. Cause erosion;

3. Obstruct the natural flow of water;

4. Reduce the carrying capacity of the floodway; or

5. Result in any increase in flood levels during the occurrence of the base flood discharge.

M. Prohibited Uses. The following uses/developments are prohibited in the floodway:

1. Any structure, including manufactured homes, designed for or to be used for human habitation of a permanent nature (including temporary dwellings authorized by YMC 15.04.130 and 15.04.140);

2. Any encroachments, including fill, new construction and other development unless demonstrated by a registered professional engineer through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the effect of the subject encroachment together with the cumulative effects of all similar potential encroachments shall materially cause water to be diverted from the established floodway, cause erosion, obstruct the natural flow of water, reduce the carrying capacity of the floodway, or result in any increase in flood levels during the occurrence of the base flood discharge;

3. Aboveground utility transmission line appurtenant structures, including valves, pumping stations, or other control facilities, shall not be permitted in the floodway, except for domestic water and regional wastewater facilities where necessary:

4. Where a floodway has not been determined by preliminary Corps of Engineers' investigations or official designation, a floodway shall be defined by qualified engineering work by the applicant on the basis of a verified one-hundred-year flood event;

5. Construction or reconstruction of residential structures within designated floodways, except as allowed under Chapter 17.11 YMC;

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 47/69 6. The construction or storage of any object subject to flotation or movement during flood level periods;

7. The following uses, due to their high degree of incompatibility with the purpose of establishing and maintaining a functional floodway, are specifically prohibited:

a. The filling of wetlands, except as authorized under YMC 17.09.030, Fish and wildlife habitat and the stream corridor system, and YMC 17.09.040, Wetlands;

b. Solid waste landfills, dumps, junkyards, outdoor storage of vehicles, and/or materials; and

c. Damming or relocation of any watercourse that will result in any downstream increase in flood levels during the occurrence of the base flood discharge (see YMC 17.09.030(J)).

8. The listing of prohibited uses in this section shall not be construed to alter the general rule of statutory construction that any use not permitted is prohibited.

N. Nonconforming Uses and Structures. Existing structures and uses within the special flood hazard areas established by this section or amendments thereto, which were lawful before these sections were adopted or amended, but which would be prohibited, or restricted under the terms of this section or future amendment, are governed under Chapter 17.11 YMC.

17.09.030 Fish and wildlife habitat and the stream corridor system conservation areas.

A. Purpose and Intent. The stream corridor system includes hydrologically related critical areas, streams, lakes, ponds, and wetlands and is part of a fragile and highly complex relationship of geology, soils, water, vegetation, and wildlife. Policies and standards to help conserve and protect fish and wildlife habitat conservation areas are designed to accomplish the following:

1. Meet the requirements of the Shoreline Management Act (Chapter 90.58 RCW) regarding the use of the most eurrent, accurate, and complete scientific and technical information available best available science that is applicable to the issues of concern;

2. Follow the requirements pursuant to flood resistant construction in the adopted building code;

3. Provide a zero net loss of natural wetland functions and values;

<u>4. Provide possible Require consideration of alternatives for necessary development, construction, and uses</u> within a designated stream corridor and other hydrologically related critical areas fish and wildlife habitat conservation areas;

53. Prevent decline in the quantity and quality of surface and subsurface waters;

64. Conserve, restore, and protect fish and wildlife habitats, vegetation, and ecological relationships;

75. Protect sensitive areas of the stream corridor fish and wildlife habitat conservation areas from the potential negative effects of development through coordinated land use planning; and,

<u>86.</u> Provide protection of natural wetland functions and values Protect fish and wildlife habitat conservation areas through voluntary agreements or government incentives.; and

9. Recognize wildlife area conservation habitats within their natural geographic location through coordinated land use planning.

B. Protection Approach.

1. To maintain fish and wildlife habitat, there must be adequate environmental conditions for reproduction, foraging, resting, cover, and dispersal of animals. Factors affecting both habitat and its quality include the presence of essential resources such as food, water, covernest building materials, and lack of disturbance and diseases. The city of Yakima protects fish and wildlife habitat through:

a. Protection of habitat for aquatic species Designation of fish and wildlife habitat conservation areas; and

<u>b.</u> Protection of habitat for species located near the water Application of development standards based on best available science to proposed activity and development in or near fish and wildlife habitat conservation areas.
 <u>2.</u> The City of Yakima's approach to protecting threatened, endangered, and sensitive species habitat is by using

the protection approach sections of this chapter.

DESIGNATION AND MAPPING

C. Hydrologically Related Critical Area Features. Stream corridors and other hydrologically related critical areas include one or more of the following features Designation: Fish and wildlife habitat conservation areas are those habitat areas that meet any of the criteria listed below:

1. Areas with which state and federal endangered, threatened, and sensitive species have a primary association;

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 48/69 2. Habitats and species of local importance;

- 3. Naturally occurring ponds under 20 acres and their submerged aquatic beds that provide fish or wildlife habitat;
- 4. Waters of the state, including any required buffers and associated Federal Emergency Management Agency-mapped floodplains and floodways;
- 5. Lakes, ponds, streams, and rivers planted with game fish by a governmental or tribal entity; and
- 6. State natural area preserves, natural resource conservation areas, and state wildlife areas.

<u>1. Any floodway or floodplain identified as a special flood hazard area identified by the Federal Emergency</u> <u>Management Agency (FEMA), as identified in the flood insurance study or corresponding maps, is hereby adopted</u> <u>by reference and declared to be part of this chapter;</u>

2. Perennial and intermittent streams, excluding ephemeral streams, including the stream main channel and all secondary channels within the ordinary high water mark;

3. Naturally occurring ponds under twenty acres and associated submerged aquatic beds; and manmade lakes and ponds created within a stream channel;

4. All wetlands as defined in YMC 17.01.090;

5. Any flood prone area indicated by U.S. Soil Conservation Service soil survey data; and

<u>6. A buffer area for a stream channel, lake, or pond or from the edge of a wetland.</u>

D. Habitat and Habitats of Local Importance.

1. Habitats of local importance are habitats or species that due to their declining population, sensitivity to habitat manipulation or other values make them important on a local level. Habitats of local importance may include a seasonal range or habitat element with which a given species has a primary association, and which, if altered, may reduce the likelihood that the species will maintain and reproduce over the long term. All species and habitats identified by WDFW's *Priority Habitats and Species* program that may be found in the city of Yakima are designated as fish and wildlife habitat conservation areas and afforded protection under this chapter.

3. Development Standards. Projects located within habitats of local importance, or within 200 feet of species of local importance, as designated in subsection (D)(1) of this section, shall meet the standards below, rather than comply with the applicable development standards in subsections I through P of this section, unless review is also needed for a hydrologically related critical area. In addition, pProjects shall be designated using management recommendations established for the species or habitat by federal and state agencies, or those adopted for species and habitats of local importance by the city of Yakima. The department shall consider the extent such recommendations are used in its decision on the proposal, and may consider recommendations and advice from agencies with expertise.

E. Functional Properties.

1. Streams, lakes, ponds and wetlandsAquatic fish and wildlife habitat conservation areas require a sufficient riparian area to support one or more of the following functional properties:

a. Stream-Stabilizing banksbank and shore stabilization;

- b. Providing a sufficient shade canopy to maintain water temperatures that support fish and their habitat;
- c. Moderating the impact of stormwater runoff;

d. Filtering solids, nutrients and harmful substances;

e. Preventing Surface erosion prevention;

f. Providing and maintaining migratory corridors for wildlife;

g. Providing food in the form of various insects and other benthic macroinvertebrates;

h. Supporting a diversity of wildlife habitats; or

i. Allowing for the natural occurrence of woody debris and organic matter to collect in the aquatic environment.

F. <u>Streams, Lakes and Ponds</u>Water Typing System. For purposes of this chapter, the city of Yakima hereby adopts-a stream, lake and pond typing system the WAC 222-16-031 Interim water typing system, for those features designated as critical areas in subsection C of this section as follows:

1. Type 1 streams waters are those waters, within their ordinary high water mark (OHWM), meeting the criteria as "shorelines of the state" and "shorelines of statewide significance" under Chapter 90.58 RCW. Other waters associated with Type 1 waters are not considered Type 1 waters;

2. Type 2 streams waters means segments of natural waters which are not classified as Type 1 Water and have a high fish, wildlife, or human use. These are segments of natural waters and periodically inundated areas of their associated wetlands, which:

a. Are diverted for domestic use by more than 100 residential or camping units or by a public accommodation facility licensed to serve more than 10 persons, where such diversion is determined by the department to be a valid appropriation of water and only considered Type 2 Water upstream from the point of such diversion for 1,500 feet or until the drainage area is reduced by 50 percent, whichever is less:

b. Are diverted for use by federal, state, tribal or private fish hatcheries. Such waters shall be considered Type 2 Water upstream from the point of diversion for 1,500 feet, including tributaries if highly significant for protection of downstream water quality. The department may allow additional harvest beyond the requirements of Type 2 Water designation provided by the department of fish and wildlife, department of ecology, the affected tribes and interested parties that:

1. The management practices proposed by the landowner will adequately protect water quality for the fish hatchery; and

2. Such additional harvest meets the requirements of the water type designation that would apply in the absence of the hatchery;

 Are within a federal, state, local or private campground having more than 30 camping units: Provided, That the water shall not be considered to enter a campground until it reaches the boundary of the park lands available for public use and comes within 100 feet of a camping unit.
 Are used by fish for spawning, rearing or migration. Waters having the following characteristics are presumed to have highly significant fish populations:

i. Stream segments having a defined channel 20 feet or greater within the bankfull width and having a gradient of less than 4 percent.

ii. Lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water; or

5. Are used by fish for off-channel habitat. These areas are critical to the maintenance of optimum survival of fish. This habitat shall be identified based on the following criteria:

i. The site must be connected to a fish bearing stream and be accessible during some period of the year; and

ii. The off-channel water must be accessible to fish through a drainage with less than a 5% gradient.

are those surface water features which require protection due to the nature of their contributions to the functional properties listed in subsection E of this section and are considered "streams, lakes and/or ponds of local importance," as listed in Appendix B of this title;

3. Type 3 waters means segments of natural waters which are not classified as Type 1 or 2 Waters and have a moderate to slight fish, wildlife, or human use. These are segments of natural waters and periodically inundated areas of their associated wetlands which:

a. Are diverted for domestic use by more than 10 residential or camping units or by a public accommodation facility licensed to serve more than 10 persons, where such diversion is determined by the department to be a valid appropriation of water and the only practical water source for such users. Such waters shall be considered to be Type 3 Water upstream from the point of such diversion for 1,500 feet or until the drainage area is reduced by 50 percent, whichever is less;

b. Are used by fish for spawning, rearing or migration. The requirements for determining fish use are described in the board manual section 13. If fish use has not been determined:

1. Waters having any of the following characteristics are presumed to have fish use:

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 50/69 a. Stream segments having a defined channel of 3 feet or greater in width, and having a gradient of 16 percent or less;

b. Stream segments having a defined channel of 3 feet or greater within the bankfull width, and having a gradient greater than 16 percent and less than or equal to 20 percent, and having greater than 175 acres contributing basin size, based on hydrographic boundaries;

c. Ponds or impoundments having a surface area of less than 1 acre at seasonal low water and having an outlet to a fish stream;

d. Ponds of impoundments having a surface area greater than 0.5 acre at seasonal low water.

<u>2.</u> The department shall waive or modify the characteristics in (i) of this subsection where:

 <u>a.</u> Waters have confirmed, long term, naturally occurring water quality parameters incapable of supporting fish;

b. Snowmelt streams have short flow cycles that do not support successful life history phases of fish. These streams typically have no flow in the winter months and discontinue flow by June 1; or

c. Sufficient information about a geomorphic region is available to support a departure from the characteristics in (i) of this subsection, as determined in consultation with the department of fish and wildlife, department of ecology, affected tribes and interested parties.

streams include all perennial streams within the city of Yakima not classified as Type 1 or 2 (see YMC 17.01.090, <u>"perennial stream");</u>

4. Type 4 streams waters means all segments of natural waters within the bankfull width of defined channels that are perennial nonfish habitat streams. Perennial streams are flowing waters that do not go dry any time of a year of normal rainfall and include the intermittent dry portions of the perennial channel below the uppermost point of perennial flow.are all intermittent streams within the city of Yakima not classified as Type 1, 2 or 3 (see YMC 17.01.090, "intermittent stream");

5. Type 5 waters means all segments of natural waters within the bankfull width of the defined channels that are not Type 1, 2, 3, or 4 Waters. These are seasonal, nonfish habitat streams in which surface flow is not present for at least some portion of the year and are not located downstream from any stream reach that is a Type 4 Water. Type 5 Waters must be physically connected by an above-ground channel system to Type 1, 2, 3, or 4 Waters. streams are all ephemeral streams within the city of Yakima not classified as Type 1, 2, 3 or 4. Type 5 streams are not regulated as streams (see YMC 17.01.090, "ephemeral stream"); and

6. Lakes and Ponds.

a. Lakes and ponds not designated as a shoreline that receive water from the OHWM of a Type 2, 3, or 4 stream shall have the same surface water type as the highest stream type from which the lake or pond receives water.

b. Natural lakes and ponds, not designated as a shoreline, that do not receive water from the OHWM of a Type 1, 2, 3, or 4 stream shall be Type 3 ponds.

c. Lakes or ponds not designated as a shoreline that are connected to a Type 1 stream shall be Type 2 ponds.

G. Wetland Rating System.

1. Wetlands within the city of Yakima are defined in YMC 17.01.090 and are shown on the data maps referenced in subsection H of this section.

<u>2. For regulatory purposes, wetlands are classified into four categories according to the wetland rating system</u> found in YMC 17.09.040(D)(2).

H. Maps. Certain fish and wildlife habitat and hydrologically related critical conservation areas have been inventoried and are depicted on a series of paper and electronic maps. The maps do not officially define the extent or characteristics of specific critical areas, but rather the potential physical boundaries and characteristics. Maps may be both regulatory and nonregulatory in nature as described below:

1. Regulatory maps include any floodway or floodplain identified as a special flood hazard area by the Federal Emergency Management Agency (FEMA) as identified in the flood insurance studies (FIRMs).

2. Informational maps indicate the approximate presence, location and/or typing of the potential critical area. Informational maps include, but are not limited to, the following:

a. Wetlands;

b. Streams;

c. Channel migration zone; and

d. Species and habitats of local importance. Note: This map will be generated at such a time when the city of Yakima formally adopts a species or habitat of local importance.

3. Other nonregulatory information sources include maps or other data sources, but are not limited to:

a. Comprehensive flood hazard management plans;

b. Soil survey of the city of Yakima;

c. Surface geologic maps;

d. Historic and current aerial photo series; and

e. Geohydraulic studies—geologic cross-sections showing aquifers and confining units.

GENERAL DEVELOPMENT STANDARDS

Prohibited Uses. The following uses and activities are prohibited within a designated hydrologically related critical fish and wildlife habitat conservation area:

1. Storage, handling, and disposal of material or substances that are dangerous or hazardous with respect to water quality and life safety;

2. The placement of mining tailings, spoilage, and mining waste materials, except for that associated with the mining of gravel;

The draining or filling of a wetland, lake or pond, except as provided for in YMC 17.07.060(B); 3.

The removal and transport of material for fill outside of the stream corridor;

Site runoff storage ponds, holding tanks and ponds, and other similar waste disposal facilities. Note: This

provision does not include regional wastewater plant facilities, collection pipes, septic systems approved by a local or state agency, and other related facilities;

6. Solid waste disposal sites;

7. Automobile wrecking yards;

8. Fill for the sole purpose of increasing land area within the stream corridor;

9. Uses located within the floodway fringe that are listed in YMC 17.09.020(K); and

10. Uses located within the floodway that are listed in YMC 17.09.020(M).

J. General Policies and Standards. The following policies and standards shall apply to any development, construction, or use carried out within a designated hydrologically related critical area:

1. The ordinary high water mark of a stream or lake, and the edge of a wetland, shall be marked on the ground before any development, construction, or use is initiated;

2. Existing vegetation and any vegetative species pertinent to the critical area identified on the project site within the stream corridor shall only be disturbed to the minimum extent possible;

Nesting areas and other sensitive habitat identified within a stream corridor shall be disturbed to the minimum 3. extent possible;

4. Projects within the stream corridor shall be scheduled to occur at times and during seasons having the least impact to spawning, nesting, or other sensitive wildlife activities. Scheduling recommendations from the appropriate state and/or federal agency may be considered;

5. The following measures are incorporated into stormwater permits approved by a local, state or federal agency and transportation projects using the Stormwater Management Manual for Eastern Washington. Developments that do not require a stormwater permit shall also incorporate the following elements into project design:

a. Excavation, grading, cut/fills, compaction, and other modifications which contribute to erosion of soils shall be confined to the minimum necessary to complete the authorized work and avoid increased sediment lo<u>ad;</u>

b. The removal of ground-cover vegetation, excavation, and grading shall be scheduled for periods when soils are the least vulnerable to erosion, compaction and movement unless suitable protective measures are used to prevent erosion;

c. Increases in impervious surface area, compaction of soil, changes in topography, and other modifications of land within a stream corridor shall provide on-site facilities for detention, control, and filtration if potential increases have been identified to occur;

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<u>d.</u> The discharge point for controlled stormwater runoff shall be designed and constructed to avoid erosion; and

e. Matting or approved temporary ground cover shall be used to control erosion until natural vegetative ground cover is successfully established;

Prior to the approval of development, construction, or uses within a designated stream corridor, any existing source of biochemical or thermal degradation identified as originating on the project property shall be corrected;
 Facilities which use fertilizers, pesticides or herbicides shall use landscaping, low-risk products, application schedules, and other protective methodology to minimize the surface and subsurface transfer of biochemical materials into the stream corridor;

8. Modifications to natural channel gradient, channel morphology, drainage patterns, and other stream features shall not permanently alter or obstruct the natural volume or flow of surface waters;

9. Development, construction, or uses within the stream corridor shall not alter or divert flood flows, cause channel shift, erosion, and increase or accelerate the flooding of upstream or downstream flood hazard areas;

10. Structures placed in close proximity to the outer edge of bends in stream channels shall be located to minimize the hazard from stream undercutting and stream bank erosion stemming from potential future stream migration;

 The Department of Ecology and adjacent communities shall be notified prior to any alteration or relocation of a watercourse and evidence of such notification shall be submitted to the Federal Emergency Management Agency;
 Maintenance shall be provided for the altered or relocated portion of said watercourse so that the floodcarrying capacity is not diminished;

13. Development shall not obstruct, cut off, or isolate stream corridor features;

14. Nothing in these regulations shall constitute authority of any person to trespass or in any way infringe upon the rights of private ownership;

15. Projects located within the floodway must meet the requirements of YMC 17.09.020(L); and

16. Any portion of the vegetative buffer temporarily damaged or disturbed as a result of construction activities (excluding approved permanent use areas) shall be repaired at the completion of construction using the reclamation found in subsection Q of this section.

WATER DEPENDENCY DEVELOPMENT STANDARDS AND BUFFER REQUIREMENTS

K. Use Classifications. For purposes of this section, the components of any development, construction, or use requiring a critical area development authorization shall be classified as provided below, and shall conform to the development standards applicable to the classification provided in subsections L through O of this section:

1. Water-oriented uses are one of the following three categories of uses, as defined in YMC 17.01.090: waterdependent, water-related, or water-enjoyment, or a combination of such uses.

2. Nonwater-oriented uses include any use not qualifying as uses in subsection (K)(1) of this section.

L. Water-Dependent Uses. The following provisions shall apply to water-dependent uses:

1. Structures shall be clustered at locations on the water's edge having the least impact to the surface water and shore.

2. Use areas and structures which require direct shore locations shall be located and constructed to minimize impacts to the shore area and the vegetative buffer specified in subsection P of this section.

3. Use areas and structures requiring direct shore locations shall minimize any obstruction or impairment of normal public navigation of the surface water.

M. Water-Related Uses. The following provisions shall apply to water-related uses:

1. Structures and use areas shall be located as far landward from the ordinary high water mark or wetland edge as is possible and still preserve the essential or necessary relationship with the surface water.

2. Structures and use areas shall not be located within the vegetative buffer specified in subsection P of this section except where existing development or the requirements associated with the use make such a location unavoidable.

N. Water-Enjoyment Uses. The following provisions shall apply to water-enjoyment uses:

1. Structures and use areas shall be located as far landward from the ordinary high water mark or wetland edge as is possible and still preserve the essential or necessary relationship with the surface water.

2. Structures and use areas may be located within the vegetative buffer specified in subsection P of this section; provided, that the location and construction shall be conducted to minimize impacts to the shore area and the vegetative buffer.

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O. Nonwater-Oriented Uses. The following provisions shall apply to nonwater-oriented uses:

1. Structures and use areas shall be set back so as not to be located within the vegetative buffer specified in subsection P of this section.

2. Construction abutting the vegetative buffer specified in subsection P of this section shall be designed and scheduled to ensure there will not be permanent damage or loss of the vegetative buffer.

P. Vegetative Buffers. The establishment of a vegetative buffer system is necessary to protect the functions and values of <u>eertain hydrologically related critical areas</u>. Standard and minimum buffers for streams, lakes, and ponds (-are listed in Table 09.030-1). See YMC 17.09.040 for wetland buffer regulations.

1. Vegetative buffers shall be measured from the ordinary high water mark for streams, lakes, and ponds. The width of the buffer shall be determined according to the stream-water type.

2. The adequacy of these standard buffer widths presumes the existence of a relatively intact native vegetative community within the buffer zone that is deemed adequate to protect the identified critical area.

a. If the vegetation is degraded, then revegetation may be considered with any adjustment to the buffer width.

b. Where the use is being intensified, a degraded buffer may be revegetated to maintain the standard width.

Stream Type	Buffer Width
Type 1 shoreline streams	High Intensity:
and lakes, and ponds	Streams: 75'
	Lakes: 50'
	Essential Public Facilities: 100'
	Floodway/CMZ: 100'
	Shoreline Residential:
	Streams: 80'
	Lakes: 20'
	Urban Conservancy: 100'
Type 2 streams, lakes, and ponds	<u>75'</u>
Type 3 streams (perennial), lakes, and ponds	<u>50'</u>
Type 4 streams	<u>25'</u>
<u>(intermittent), lakes, and</u> <u>ponds</u>	
<u> Type 5 streams (ephemeral)</u>	No buffer standards. Type 5 streams are not regulated as streams, but may be protected under
	geologically hazardous area, floodplain, stormwater, construction, grading or other development regulations.
	uevelopment regulations.

Table 09.030-1. Standard Stream Buffers

17.09.040 Wetlands.

A. Purpose and Intent. The purpose and intent of the provisions protecting wetland critical areas is equivalent to the purpose and intent for YMC 17.09.030.

B. Designating and Mapping.

<u>Consistent with WAC 173 22 035, wWetlands in shoreline jurisdiction shall be delineated using the procedure outlined in the approved federal wetland delineation manual and applicable regional supplements.</u>
 Wetlands are all areas meeting the definition for wetlands as defined in YMC 17.01.090 and are hereby designated critical areas which are subject to this chapter, except the following:

 a. Irrigation systems that create an artificial wetlands; and

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 54/69 b. Areas where changes in irrigation practices have caused wetland areas to dry up.

3. The approximate location and extent of wetlands are shown on maps maintained by the city of Yakima. These maps may include information from the National Wetlands Inventory produced by the U.S. Fish and Wildlife Service and are to be used as a guide for the city of Yakima.

C. Protection Approach. Wetlands will be protected using the protection approach for hydrologically related critical areas found in YMC 17.09.030(B). Wetlands and their functions will be protected using the standards found in this section and in YMC 17.09.030.

D. Wetland Functions and Rating.

1. Wetlands are unique landscape features that are the interface between the aquatic and terrestrial environments. Wetlands provide the following functions:

a. Biogeochemical functions, which improve water quality in the watershed (such as nutrient retention and transformation, sediment retention, metals, and toxics retention and transformation).

b. Hydrologic functions, which maintain the water regime in a watershed, such as: flood flow attenuation, decreasing erosion, and groundwater recharge.

c. Food and habitat functions, which include habitat for invertebrates, amphibians, anadromous fish, resident fish, birds, and mammals.

2. Wetlands shall be rated based on categories that reflect the functions and values of each wetland and shall be based on the criteria provided in the Washington State Wetland Rating System for Eastern Washington, revised March 2007October 2014 (Ecology Publication Number 04-06-1514-06-030, or as revised) which are summarized below.

a. Category I wetlands are those 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 in a human lifetime; or 4) provide a high level of functions. Risk of any degradation to these wetlands must be avoided because their functions and values are too difficult to replace. Generally, these wetlands are not common and make up a small percentage of the wetlands in the region.

more sensitive to disturbance than most wetlands, relatively undisturbed, and contain ecological attributes that are difficult to replace. Generally, these wetlands are not common and make up a very small percentage of the wetlands within the city of Yakima. The following types of wetlands are classified as Category I:

i. Wetlands scoring seventy points or more (out of one hundred) in the Washington State Wetland Rating System for Eastern Washington (WRSEW);

ii. Alkali wetlands;

iii. Natural heritage wetlands (wetlands identified by Washington Department of Natural Resources Natural Heritage Program scientists); and

<u>iv. Bogs.</u>

b. Category II wetlands are difficult but not impossible to replace and provide high levels of some functions. These wetlands occur more commonly than Category 1 wetlands, but still need a relatively high level of protection. Category II wetlands include:

<u>i.</u> Wetlands scoring between fifty one to sixty nine (out of one hundred) in the WRSEW;
 <u>ii.</u> Unassociated vernal pools; and

iii. Forested wetlands.

c. Category III wetlands are wetlands with a moderate level of functions and can often be adequately replaced with a well-planned mitigation project. These wetlands generally have been disturbed in some ways and are often less diverse or more isolated from other natural resources in the landscape than Category II wetlands.

often smaller, less diverse, and/or more isolated from other natural resources. Category III wetlands include:

i. Wetlands with a moderate level of functions (scoring between thirty to fifty points) in the WRSEW; and

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ii. Associated vernal pools.

d. Category IV wetlands have the lowest levels of functions, scoring less than thirty points in the <u>WRSEW. Category IV wetlands and are often heavily disturbed and are wetlands that should be able to</u> <u>be replaced</u>. These are wetlands that should be able to be replaced and, in some cases, improved. However, experience has shown that replacement cannot be guaranteed in any specific case. These wetlands may provide some important functions and also need to be protected.

3. Wetlands shall be rated as they exist on the day of project application submission. Information regarding the original condition of illegally modified wetlands that cannot be discerned from aerial photographs or other reliable information sources shall use the highest appropriate points value within each missing data field of the WRSEW rating sheet to complete the rating.

E. Wetland Buffers.

8. Buffer Requirements. The following buffer widths have been established in accordance with the best available science. They are based on the category of wetland and the habitat score as determined by a qualified professional using the *Washington State Wetland Rating System for Eastern Washington: 2014 Update* (Ecology Publication #14-06-030, or as revised). The adjacent land use intensity is assumed to be high.

a. For wetlands that score 5 points or more for habitat function, the buffers in Table 27.6-1 can be used if both of the following criteria are met:

1. A relatively undisturbed, vegetated corridor at least 100 feet wide is protected between the wetland and any other Priority Habitats as defined by the Washington State Department of Fish and Wildlife (http://wdfw.wa.gov/hab/phshabs.htm).

The corridor must be protected for the entire distance between the wetland and the Priority Habitat by some type of legal protection such as a conservation easement.

Presence or absence of a nearby habitat must be confirmed by a qualified biologist. If no option for providing a corridor is available, Table 27.6-1 may be used with the required measures in Table 27.6-2 alone.

- 2 The measures in Table 27.6-2 are implemented, where applicable, to minimize the impacts of the adjacent land uses.
- b. For wetlands that score 3-4 habitat points, only the measures in Table 27.6-2 are required for the use of Table 27.6-1.
- c. If an applicant chooses not to apply the mitigation measures in Table 27.6-2, or is unable to provide a protected corridor where available, then Table 27.6-3 shall be used.
- d. The buffer widths in Table 27.6-1 and 27.6-3 assume that the buffer is vegetated with a native plant community appropriate for the ecoregion. If the existing buffer is unvegetated, sparsely vegetated, or vegetated with invasive species that do not perform needed functions, the buffer should either be

planted to create the appropriate plant community or the buffer should be widened to ensure that adequate functions of the buffer are provided.

Table 27.6-1: Wetland Buffer Requirements if Table 27.6-2 is implemented and corridor provided

	Buffer Width (feet) based on habitat score			
Wetland Category	<u>3-4</u>	<u>5</u>	<u>6-7</u>	<u>8-9</u>
Category 1: Based on total score	<u>75</u>	<u>90</u>	<u>120</u>	<u>150</u>
Category 1: Forested	<u>75</u>	<u>90</u>	<u>120</u>	<u>150</u>
<u>Category 1: Bogs and</u> <u>Wetlands of High</u> <u>Conservation Value</u> <u>Category 1: Alkali</u>		_	<u>90</u> 50	
<u>Category II: Based on total</u> <u>score</u> <u>Category II: Vernal Pool</u>	<u>75</u>	<u>90</u> <u>1</u>	<u>120</u>	<u>150</u>
Category II: Forested	<u>75</u>	<u>90</u>	<u>120</u>	<u>150</u>
Category III (all)	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>
Category IV (all)		2	<u>10</u>	

Table 27.6-2: Required measures to minimize impacts to wetlands

Disturbance	Required Measures to Minimize Impacts
Lights	Direct lights away from wetland
Noise	 Locate activity that generates noise away from wetland
	• If warranted, enhance existing buffer with native vegetation for plantings adjacent
	to noise source
	• For activities that generate relatively continuous, potentially disruptive noise, such
	as certain heavy industry or mining, establish an additional 10-feet heavily
	vegetated buffer strip immediately adjacent to the outer wetland buffer.
Toxic Runoff	• 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
Stormwater	• Retrofit stormwater detention and treatment for roads and existing adjacent
<u>Runoff</u>	development
	Prevent channelized flow from lawns that directly enters the buffer
	Use Low Intensity Development techniques
Changes in water	• Infiltrate or treat, detain, an disperse into buffer new runoff from impervious
<u>regime</u>	surfaces and new lawns.
Pets and human	• Use privacy fencing OR plan dense vegetation to delineate buffer edge and to
disturbance	discourage disturbance using vegetation appropriate for the ecoregion
	• Place wetland and its buffer in a separate tract or protect with a conservation
	easement
<u>Dust</u>	Use best management practices to control dust

Table 27.6-3: Wetland Buffer Requirements if Table 27.6-2 is NOT implemented and corridor NOT provided

	Buffer Width (feet) based on habitat score			
Wetland Category	<u>3-4</u>	<u>5</u>	<u>6-7</u>	<u>8-9</u>
Category 1: Based on total score	<u>100</u>	<u>130</u>	<u>180</u>	<u>200</u>
Category 1: Forested	<u>100</u>	<u>130</u>	<u>180</u>	<u>200</u>
Category 1: Bogs and Wetlands of High Conservation Value		<u>2:</u>	<u>50</u>	
Category 1: Alkali		<u>20</u>	<u>00</u>	
Category II: Based on total score	<u>100</u>	<u>130</u>	<u>180</u>	<u>200</u>
Category II: Vernal Pool		<u>20</u>	<u>00</u>	
Category II: Forested	<u>100</u>	<u>130</u>	<u>180</u>	<u>200</u>
Category III (all)	<u>80</u>	<u>130</u>	<u>180</u>	<u>200</u>
Category IV (all)		<u>5</u>	0	

e. Increased Wetland Buffer Area Width. Buffer widths shall be increased on a case-by-case basis as determined by the administrative official when a larger buffer is necessary to protect wetland functions and values. This determination shall be supported by appropriate documentation showing that it is

reasonably related to protection of the functions and values of the wetland. This documentation shall include, but not be limited to, the following criteria:

- i. The wetland is used by a state or federally listed plant or animal species, or has unusual nesting or resting sites such as heron rookeries or raptor nesting trees; or
- ii. The adjacent land is susceptible to severe erosion, and erosion-control measures will not effectively prevent adverse wetland impacts; or
- iii. The adjacent land has minimal vegetative cover or slopes greater than 30 percent.
- <u>f.</u> Buffer averaging to *improve wetland protection* may be permitted when **all** of the following conditions <u>are met:</u>
 - i. The wetland has significant differences in characteristics that affect its habitat functions, such as a wetland with a forested component adjacent to a degraded emergent component or a "dualrated" wetland with a Category 1 area adjacent to a lower-rated area.
 - ii. The buffer is increased adjacent to the higher-functioning area of habitat or more-sensitive portion of the wetland and decreased adjacent to the lower-functioning or less-sensitive portion as demonstrated by a critical areas report from a qualified wetland professional.
 - iii. The total area of the buffer after averaging is equal to the area required without averaging.
 - iv. The buffer at its narrowest point is never less than either ³/₄ of the required width or 75-feet for Category I and II, 50-feet for Category III, and 25-feet for Category IV, whichever is greater.
- g. Averaging to *allow reasonable use* of a parcel may be permitted when **all** of the following are met:
 - i. There are no feasible alternatives to the site design that could be accomplished without buffer averaging.
 - ii. The averaged buffer will not result in degradation of the wetland's functions and values as demonstrated by a critical areas report from a qualified wetland professional.
 - iii. The total buffer area of the buffer after averaging is equal to the area without averaging.
 - iv. The buffer at its narrowest point is never less than either ³/₄ of the required width or 75-feet for Category I and II, 50-feet for Category III, and 25-feet for Category IV, whichever is greater.
- 2. To facilitate long-range planning using a landscape approach, the Administrative Official may identify and pre-assess wetlands using the rating system and establish appropriate wetland buffer widths for such wetlands. The Administrative Official will prepare maps of wetlands that have been pre-assessed in this manner.
- 3. Measurement of Wetland Buffers. All buffers shall be measured perpendicular from the wetland boundary as surveyed in the field. The buffer for a wetland created, restored, or enhanced as compensation for approved wetland alterations shall be the same as the buffer required for the category of the created, restored, or enhanced wetland. Buffers must be fully vegetated in order to be included in buffer area calculations. Lawns, walkways, driveways, and other mowed or paved areas will not be considered buffers or included in buffer area calculations.
- 4. Buffers on Mitigation Sites. All wetland mitigation sites shall have buffers consistent with the buffer requirements of this Chapter. Buffers shall be based on the expected or target category of the proposed wetland mitigation site.
- 5. Buffer Maintenance. Except as otherwise specified or allowed in accordance with this chapter, wetland buffers shall be retained in an undisturbed or enhanced condition. In the case of compensatory mitigation sites, removal of invasive non-native weeds is required for the duration of the mitigation bond, YMC § 15.27.605(10)(b)(i)(10).

- 6. Impacts to Buffers. Requirements for the compensation for impacts to buffers are outlined in YMC § 15.27.605.
- 7. Overlapping Critical Area Buffers. If buffers for two contiguous critical areas overlap (such as buffers for a stream and a wetland), the wider buffer applies.
- 8. Allowed Buffer Uses. The following uses may be allowed within a wetland buffer in accordance with the review procedures of this Chapter, provided they are not prohibited by any other applicable law and they are conducted in a manner so as to minimize impacts to the buffer and adjacent wetland:
 - a. Conservation and Restoration Activities. Conservation or restoration activities aimed at protecting the soil, water, vegetation, or wildlife.
 - b. Passive recreation. Passive recreation facilities designed and in accordance with an approved critical area report, including:
 - Walkways and trails, provided that those pathways are limited to minor crossings having no adverse impact on water quality. They should be generally parallel to the perimeter of the wetland, located only in the outer twenty-five percent (25%) of the wetland buffer area, and located to avoid removal of significant trees. They should be limited to pervious surfaces no more than five (5) feet in width for pedestrian use only. Raised boardwalks utilizing non-treated pilings may be acceptable.
 - 2. Wildlife-viewing structures.
 - c. Educational and scientific research activities.
 - d. Normal and routine maintenance and repair of any existing public or private facilities within an existing right-of-way, provided that the maintenance or repair does not increase the footprint or use of the facility or right-of-way.
 - e. The harvesting of wild crops in a manner that is not injurious to natural reproduction of such crops, chemical applications, or alteration of the wetland by changing existing topography, water conditions, or water sources.
 - <u>f.</u> Drilling for utilities/utility corridors under a buffer, with entrance/exit portals located completely outside of the wetland buffer boundary, provided that the drilling does not interrupt the ground water connection to the wetland or percolation of surface water down through the soil column. Specific studies by a hydrologist are necessary to determine whether the ground water connection to the wetland or percolation of surface water down through the soil column is disturbed.
 - g. Enhancement of a wetland buffer through the removal of non-native invasive plant species. Removal of invasive plant species shall be restricted to hand removal. All removed plant material shall be taken away from the site and appropriately disposed of. Plants that appear on the Washington State Noxious Weed Control Board list of noxious weeds must be handled and disposed of according to a noxious weed control plan appropriate for that species. Revegetation with appropriate native species at natural densities is allowed in conjunction with removal of invasive plant species.
 - h. Repair and maintenance of non-conforming uses or structures, where legally established within the buffer, provided they do not increase their degree of nonconformity.
- 9. Signs and Fencing of Wetlands and Buffers.
 - a. Temporary markers. The outer perimeter of the wetland buffer and the clearing limits identified by an approved permit or authorization shall be marked in the field with temporary "clearing limits" fencing in such a way as to ensure that no unauthorized intrusion will occur. The marking is subject to inspection by the Administrative Official prior to the commencement of permitted activities. This temporary marking shall be maintained throughout construction and shall not be removed until permanent signs, if required, are in place.
 - b. Permanent signs. As a condition of any permit or authorization issued pursuant to this chapter, the Administrative Official may require the applicant to install permanent signs along the boundary of a wetland or buffer.
 - 1. Permanent signs shall be made of an enamel-coated metal face and attached to a metal post or other non-treated material of equal durability. Signs must be posted at an interval of one (1) every 50-feet, or one (1) per lot if the lot is less than 50-feet wide, and must be maintained by the

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 60/69 property owner in perpetuity. The signs shall be worded as follows or with alternative language approved by the Administrative Official:

Protected Wetland Area <u>Do Not Disturb</u> <u>Contact the City of Yakima</u> Regarding Uses, Restrictions, and Opportunities for Stewardship

- 2. The provisions of Subsection (a) may be modified as necessary to assure protection of sensitive features or wildlife.
- c. Fencing.
 - <u>1. The applicant shall be required to install a permanent fence around the wetland or buffer when</u> <u>domestic grazing animals are present or may be introduced on site.</u>
 - 2. Fencing installed as part of a proposed activity, or as required in this Subsection, shall be designed so as not to interfere with species mitigation, including fish runs, and shall be constructed in a manner that minimizes impacts to the wetland and associated habitat.

1. Vegetative buffers shall be measured from the edge of the wetland. The width of the buffer shall be determined according to the wetland type. The standard buffer widths are provided in Table 09.040 1 below.

2. The use of the standard buffer widths requires the implementation of the measures in Table 09.040 2, where applicable, to minimize the impacts of the adjacent land uses.

<u>3. If an applicant chooses not to apply the mitigation measures in Table 09.040 2, then a thirty three percent increase in the width of all buffers is required. For example, a seventy five foot buffer with the mitigation measures would be a one-hundred-foot buffer.</u>

<u>4. The adequacy of these standard buffer widths presumes the existence of a relatively intact native</u> <u>vegetative community within the buffer zone that is deemed adequate to protect the identified</u> <u>eritical area.</u>

<u>a. If the vegetation is degraded, then revegetation may be considered with any adjustment to</u> <u>the buffer width.</u>

b. Where the use is being intensified, a degraded buffer may be revegetated to maintain the standard width.

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Wetland Category	<u>Standard</u> Buffer Width	Additional buffer width if wetland seores 21-25 habitat points	Additional buffer width if wetland scores 26-29 habitat points	Additional buffer width if wetland seores 30-36 habitat points
Category I: Based on total score	<u>75-ft</u>	Add 15 ft	Add 45 ft	Add 75 ft
Category I: Forested	<u>75-ft</u>	<u>Add 15 ft</u>	<u>Add 45 ft</u>	<u>Add 75 ft</u>
Category I: Bogs	<u>190 ft</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
Category I: Alkali	<u>150-ft</u>	<u>N/A</u>	<u>NA</u>	<u>NA</u>
<u>Category I: Natural Heritage</u> Wetlands	<u>190 ft</u>	<u>N/A</u>	<u>NA</u>	<u>NA</u>
Category II: Based on total score	<u>75 ft</u>	Add 15 ft	<u>Add 45 ft</u>	Add 75 ft
Category II: Vernal pool	<u>150</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
Category II: Forested	<u>75-ft</u>	Add 15 ft	Add 45 ft	Add 75 ft
Category III (all)	<u>60-ft</u>	Add 30 ft	Add 60 ft	NA
Category IV (all)	<u>40-ft</u>	NA	NA	<u>NA</u>

Table 09.040-1. Standard Wetland Buffers-

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Disturbance	Required Measures to Minimize Impacts
Lights	Direct lights away from wetland
Noise	Locate activity that generates noise away from wetland
	 If warranted, enhance existing buffer with native vegetation plantings adjacent to noise
	Source
	 For activities that generate relatively continuous, potentially disruptive noise, such as certain
	heavy industry or mining, establish an additional 10 foot heavily vegetated buffer strip
	immediately adjacent to the outer wetland buffer
Toxic runoff	• 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
	<u>Apply integrated pest management</u>
Stormwater runoff	<u>Retrofit stormwater detention and treatment for roads and existing adjacent development</u>
	Prevent channelized flow from lawns that directly enters the buffer
	Use low intensity development techniques (per PSAT publication on LID techniques)
Change in water	Infiltrate or treat, detain, and disperse into buffer new runoff from impervious surfaces and new
regime	lawns
Pets and human	• Use privacy fencing OR plant dense vegetation to delineate buffer edge and to discourage
disturbance	disturbance using vegetation appropriate for the ecoregion.
	Place wetland and its buffer in a separate tract or protect with a conservation easement
Dust	Use best management practices to control dust
Disruption of	<u>Maintain connections to offsite areas that are undisturbed</u>
<u>corridors or</u> connections	 <u>Restore corridors or connections to offsite habitats by replanting</u>
	uffer averaging to improve wetland protection may be permitted when all of the following
condi	tions are met:
	a. The wetland has significant differences in characteristics that affect its habitat functions,
	such as a wetland with a forested component adjacent to a degraded emergent component or a
	<u>"dual rated" wetland with a Category I area adjacent to a lower rated area.</u> b. The buffer is increased adjacent to the higher-functioning area of habitat or more
	sensitive portion of the wetland and decreased adjacent to the lower functioning or less
	sensitive portion of the wentand and decreased adjacent to the lower functioning of less
	professional.
	c. The total area of the buffer after averaging is equal to the area required without averaging.
	d. The buffer at its narrowest point is never less than either three quarters of the required
	width or seventy-five feet for Category I and II, fifty feet for Category III and twenty-five feet
	for Category IV, whichever is greater.
	he shoreline administrator may not approve averaging reductions to the standard buffer widths
	etlands that score medium (twenty six through twenty nine points) or high (thirty through
	six points) for wetland habitat function, except where it can be shown that a particular wildlife
	<u>es' needs within the buffer can be met with a smaller buffer.</u>
	ll other proposals to reduce a wetland buffer may only be approved through the shoreline we process.
valiat	

Table (9.040-2. Require	d measures to minim	ize impacts to wetlands
whore	nnlicable to a spe	cific proposal)	

- F. Compensatory Mitigation-Requirements.
 - 6. Mitigation Sequencing. Before impacting any wetland or its buffer, an applicant shall demonstrate that the following actions have been taken. Actions are listed in the order of preference:
 - a. Avoid the impact altogether by not taking a certain action or parts of an action.

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- b. Minimize impacts by limiting the degree or magnitude of the action and its implementation, by using appropriate technology, or by taking affirmative steps to avoid or reduce impacts.
- c. Rectify the impact by repairing, rehabilitating, or restoring the affected environment.
- d. Reduce or eliminate the impact over time by preservation and maintenance operations.
- e. Compensate for the impact by replacing, enhancing, or providing substitute resources or environments.
- f. Monitor the required compensation and take remedial or corrective measures when necessary.
- 7. Requirements for Compensatory Mitigation:
 - a. Compensatory mitigation for alterations to wetlands shall be used only for impacts that cannot be avoided or minimized and shall achieve equivalent or greater biologic functions. Compensatory mitigation plans shall be consistent with *Wetland Mitigation in Washington State – Part 2: Developing* <u>Mitigation Plans—Version 1</u>, (Ecology Publication #06-06-011b, Olympia, WA, March 2006 or as revised), and <u>Selecting Wetland Mitigation Sites Using a Watershed Approach (Eastern Washington)</u> (Publication #10-06-07, November 2010).
 - b. Mitigation ratios may also be determined using the credit/debit tool describe in "Calculating Credits and Debits for Compensatory Mitigation in Wetlands of Eastern Washington: Final Report (Ecology Publication #11-06-045, August 2012), consistent with subsection 8 of this Chapter.
- 8. Compensating for Lost or Affected Functions. Compensatory mitigation shall address the functions affected by the proposed project, with an intention to achieve functional equivalency or improvement of functions. The goal shall be for the compensatory mitigation to provide similar wetland functions as those lost, except when either:
 - a. The lost wetland provides minimal functions, and the proposed compensatory mitigation action(s) will provide equal or greater functions or will provide functions shown to be limiting within a watershed through a formal Washington state watershed assessment plan or protocol; or
 - b. Out-of-kind replacement of wetland type or functions will best meet watershed goals formally identified by the City, such as replacement of historically diminished wetland types.
- 9. Approaches to Compensatory Mitigation. Mitigation for lost or diminished wetland and buffer functions shall rely on the approaches listed below.
 - a. Wetland mitigation banks. Credits from a certified wetland mitigation bank may be used to compensate for impacts located within the service area specified in the mitigation bank instrument. Use of credits from a wetland mitigation bank certified under Chapter 173-700 WAC is allowed if:
 i. The approval authority determines that it would provide appropriate compensation for the proposed impacts; and
 - ii. The impact site is located in the service area of the bank.
 - iii. The proposed use of credits is consistent with the terms and conditions of the certified mitigation bank instrument.
 - iv. Replacement ratios for projects using bank credits is consistent with replacement ratios specified in the certified mitigation bank instrument.
 - b. In-Lieu Fee Mitigation: Credits from an approved in-lieu-fee program may be used when all of the following apply:
 - i. The approval authority determines that it would provide environmentally appropriate compensation for the proposed impacts.
 - ii. The proposed use of credits is consistent with the terms and conditions of the approved in-lieu-fee program instrument.
 - iii. Projects using in-lieu-fee credits shall have debits associated with the proposed impacts calculated by the applicant's qualified wetland professional using the credit assessment method specified in the approved instrument for the in-lieu-fee program.
 - iv. The impacts are located within the service area specified in the approved in-lieu-fee instrument.
 - c. Permittee-responsible mitigation. In this situation, the permittee performs the mitigation after the permit is issued and is ultimately responsible for implementation and success of the mitigation. Permittee-responsible mitigation may occur at the site of the permitted impacts or at an off-site location within the same watershed. Permittee-responsible mitigation shall be used only if the applicant's qualified wetland professional demonstrates to the approval authority's satisfaction

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- 10. Types of Compensatory Mitigation. Mitigation for lost or diminished wetland and buffer functions shall rely on a type listed below in order of preference. A lower-preference form of mitigation shall be used only if the applicant's qualified wetland professional demonstrates to the approval authority's satisfaction that all higher-ranked types of mitigation are not viable, consistent with the criteria in this section.
 - a. Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural or historic functions to a former or degraded wetland. For the purpose of tracking net gains in wetland acres, restoration is divided into:
 - <u>i.</u> Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural or historic functions to a former wetland. Re-establishment results in a gain in wetland acres (and functions). Activities could include removing fill material, plugging ditches, or breaking drain tiles.
 - <u>ii.</u> Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural or historic functions of a degraded wetland. Rehabilitation results in a gain in wetland function but does not result in a gain in wetland acres. Activities could involve breaching a dike to reconnect wetlands to a floodplain or return tidal influence to a wetland.
 - <u>b.</u> Establishment (Creation): The manipulation of the physical, chemical, or biological characteristics of a site to develop a wetland on an upland or deepwater site where a wetland did not previously exist. Establishment results in a gain in wetland acres. Activities typically involve excavation of upland soils to elevations that will produce a wetland hydroperiod, create hydric soils, and support the growth of hydrophytic plant species.
 - i. If a site is not available for wetland restoration to compensate for expected wetland and/or buffer impacts, the approval authority may authorize creation of a wetland and buffer upon demonstration by the applicant's qualified wetland professional that:
 - 1. The hydrology and soil conditions at the proposed mitigation site are conducive for sustaining the proposed wetland and that creation of a wetland at the site will not likely cause hydrologic problems elsewhere;
 - 2. Adjacent land uses and site conditions do not jeopardize the viability of the proposed wetland and buffer (e.g., due to the presence of invasive plants or noxious weeds, stormwater runoff, noise, light, or other impacts); and
 - 3. The proposed wetland and buffer will eventually be self-sustaining with little or no long-term maintenance.
 - c. Enhancement. The manipulation of the physical, chemical, or biological characteristics of a wetland site to heighten, intensify, or improve specific function(s) or to change the growth stage or composition of the vegetation present. Enhancement is undertaken for specified purposes such as water quality improvement, flood water retention, or wildlife habitat. Enhancement results in a change in some wetland functions and can lead to a decline in other wetland functions, but does not result in a gain in wetland acres. Activities typically consist of planting vegetation, controlling non-native or invasive species, modifying site elevations or the proportion of open water to influence hydroperiods, or some combination of these activities. Applicants proposing to enhance wetland's/buffer's functions, how this increase in function will adequately compensate for the impacts, and how existing wetland functions at the mitigation site will be protected.
 - d. Protection/Maintenance (Preservation). Removing a threat to, or preventing the decline of, wetland conditions by an action in or near a wetland. This includes the purchase of land or easements, or repairing water control structures or fences. This term also includes activities commonly associated with the term preservation. Preservation does not result in a gain of wetland acres. Permanent protection of a Category I or II wetland and associated buffer at risk of degradation can be used only if:
 - i. The approval authority determines that the proposed preservation is the best mitigation <u>option;</u>

- 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 of the watershed or basin due to its location. Some of the following features may be indicative of high-quality sites:
 - 1. Category I or II wetland rating (using the wetland rating system for western Washington)
 - Rare or irreplaceable wetland type (for example, bogs, mature forested wetlands, estuarine wetlands) or aquatic habitat that is rare or a limited resource in the area;
 - 3. The presence of habitat for priority or locally important wildlife species; or also list has provides biological and/or hydrological connectivity;
 - 4. Provides biological and/or hydrological connectivity;
 - 5. Priority sites in an adopted watershed plan.
- iv. Permanent preservation of the wetland and buffer will be provided through a conservation easement or tract held by an appropriate natural land resource manager, such as a land trust.
- v. The approval authority may approve other legal and administrative mechanisms in lieu of a conservation easement if it determines they are adequate to protect the site.
- vi. Ratios for preservation in combination with other forms of mitigation generally range from 10:1 to 20:1, as determined on a case-by-case basis, depending on the quality of the wetlands being impacted and the quality of the wetlands being preserved. Ratios for preservation as the sole means of mitigation generally start at 20:1.
- 11. Location of Compensatory Mitigation. Compensatory mitigation actions shall generally be conducted within the same sub-drainage basin and on the site of the alteration except when the applicant can demonstrate that off-site mitigation is ecologically preferable. The following criteria will be evaluated when determining whether the proposal is ecologically preferable. When considering off-site mitigation, preference should be given to using alternative mitigation, such as a mitigation bank, an in-lieu-fee program, or advance mitigation.
 - a. There are no reasonable opportunities on site or within the sub-drainage basin (e.g., on-site options would require elimination of high-functioning upland habitat), or opportunities on site or within the sub-drainage basin do not have a high likelihood of success based on a determination of the capacity of the site to compensate for the impacts. Considerations should include: anticipated replacement ratios for wetland mitigation, buffer conditions and proposed widths, available water to maintain anticipated hydrogeomorphic classes of wetlands when restored, proposed flood storage capacity, and potential to mitigate riparian fish and wildlife impacts (such as connectivity);
 - b. On-site mitigation would require elimination of high-quality upland habitat.
 - c. Off-site mitigation has a greater likelihood of providing equal or improved wetland functions than the altered wetland.
 - d. Off-site locations shall be in the same sub-drainage basin unless:
 - i. Established watershed goals for water quality, flood storage or conveyance, habitat, or other wetland functions have been established by the City and strongly justify location of mitigation at another site; or
 - ii. Credits from a state-certified wetland mitigation bank are used as compensation, and the use of credits is consistent with the terms of the certified bank instrument;
 iii. Fees are paid to an approved in-lieu fee program to compensate for the impacts.
 - e. The design for the compensatory mitigation project needs to be appropriate for its location (i.e., position in the landscape). Therefore, compensatory mitigation should not result in the creation, restoration, or enhancement of an atypical wetland.
- 12. Timing of Compensatory Mitigation. It is preferred that compensatory mitigation projects be completed prior to activities that will disturb wetlands. At the least, compensatory mitigation shall be completed immediately following disturbance and prior to use or occupancy of the action or development.

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 a. The Administrator may authorize a one-time temporary delay in completing construction or installation of the compensatory mitigation when the applicant provides a written explanation from a qualified wetland professional as to the rationale for the delay. An appropriate rationale would include identification of the environmental conditions that could produce a high probability of failure or significant construction difficulties (e.g., project delay lapses past a fisheries window, or installing plants should be delayed until the dormant season to ensure greater survival of installed materials). The delay shall not create or perpetuate hazardous conditions or environmental damage or degradation, and the delay shall not be injurious to the health, safety, or general welfare of the public. The request for the temporary delay must include a written justification that documents the environmental constraints that preclude implementation of the compensatory mitigation plan. The justification must be verified and approved by the City.

13. Wetland Mitigation Ratios:

Category and Type of Wetland	<u>Creation or</u> <u>Re-establishment</u>	Rehabilitation	Enhancement
<u>Category I: Bog, Natural</u> <u>Heritage Site</u>	Not considered possible	Case by Case	Case by Case
<u>Category I: Mature</u> <u>Forested</u>	<u>6:1</u>	<u>12:1</u>	<u>24:1</u>
Category I: Based on functions	<u>4:1</u>	<u>8:1</u>	<u>16:1</u>
Category II	<u>3:1</u>	<u>6:1</u>	<u>12:1</u>
Category III Category IV	<u>2:1</u> <u>1.5:1</u>	$\frac{4:1}{3:1}$	<u>8:1</u> <u>6:1</u>

Ratios for rehabilitation and enhancement may be reduced when combined with 1:1 replacement through creation or re-establishment. See Table 1b, *Wetland Mitigation in Washington State – Part 1: Agency Policies and Guidance-Version 1,* (Ecology Publication #06-06-011a, Olympia, WA, March 2006 or as revised). See also Paragraph D.4 for more information on using preservation as compensation.

<u>14.</u> Credit/Debit Method. To more fully protect functions and values, and as an alternative to the mitigation ratios found in the joint guidance "Wetland Mitigation in Washington State Parts I and II" (Ecology Publication #06-06-011a-b, Olympia, WA, March, 2006), the administrator may allow mitigation based on the "credit/debit" method developed by the Department of Ecology in "Calculating Credits and Debits for Compensatory Mitigation in Wetlands of Eastern Washington: Final Report" (Ecology Publication #11-06-015, August 2012, or as revised).

<u>15. Compensatory Mitigation Plan. When a project involves wetland and/or buffer impacts, a compensatory mitigation plan prepared by a qualified professional shall be required, meeting the following minimum standards:</u>

a. Wetland Critical Area Report. A critical area report for wetlands must accompany or be included in the compensatory mitigation plan and include the minimum parameters described in Minimum Standards for Wetland Reports (Section XX.060.B) of this Chapter.

 <u>b.</u> Compensatory Mitigation Report. The report must include a written report and plan sheets that must contain, at a minimum, the following elements. Full guidance can be found in Wetland Mitigation in Washington State–Part 2: Developing Mitigation Plans (Version 1) (Ecology Publication #06-06-011b, Olympia, WA, March 2006 or as revised).

- i. The written report must contain, at a minimum:
 - 1. The name and contact information of the applicant; the name, qualifications, and contact information for the primary author(s) of the compensatory mitigation report; a description of the proposal; a summary of the impacts and proposed compensation concept; identification of all the local, state, and/or federal wetland-related permit(s) required for the project; and a vicinity map for the project.

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- 2. Description of how the project design has been modified to avoid, minimize, or reduce adverse impacts to wetlands.
- 3. Description of the existing wetland and buffer areas proposed to be impacted. Include acreage (or square footage), water regime, vegetation, soils, landscape position, surrounding lands uses, and functions. Also describe impacts in terms of acreage by Cowardin classification, hydrogeomorphic classification, and wetland rating, based on Wetland Ratings, YMC 15.27.603.
- 4. Description of the compensatory mitigation site, including location and rationale for selection. Include an assessment of existing conditions: acreage (or square footage) of wetlands and uplands, water regime, sources of water, vegetation, soils, landscape position, surrounding land uses, and functions. Estimate future conditions in this location if the compensation actions are NOT undertaken (i.e., how would this site progress through natural succession?).
- 5. Surface and subsurface hydrologic conditions, including an analysis of existing and proposed hydrologic regimes for enhanced, created, or restored compensatory mitigation areas. Include illustrations of how data for existing hydrologic conditions were used to determine the estimates of future hydrologic conditions
- 6. A description of the proposed actions for compensation of wetland and upland areas affected by the project. Include overall goals of the proposed mitigation, including a description of the targeted functions, hydrogeomorphic classification, and categories of wetlands.
- 7. A description of the proposed mitigation construction activities and timing of activities.
- 8. Performance standards (measurable standards for years post-installation) for upland and wetland communities, a monitoring schedule, and a maintenance schedule and actions proposed by year.
- 9. A discussion of ongoing management practices that will protect wetlands after the development project has been implemented, including proposed monitoring and maintenance programs (for remaining wetlands and compensatory mitigation wetlands).
- 10. A bond estimate for the entire compensatory mitigation project, including the following elements: site preparation, plant materials, construction materials, installation oversight, maintenance twice per year for up to five (5) years, annual monitoring field work and reporting, and contingency actions for a maximum of the total required number of years for monitoring.
- <u>11. Proof of establishment of Notice on Title for the wetlands and buffers on the project site, including the compensatory mitigation areas.</u>
- ii. The scaled plan sheets for the compensatory mitigation must contain, at a minimum:
 - 1. Surveyed edges of the existing wetland and buffers, proposed areas of wetland and/or buffer impacts, location of proposed wetland and/or buffer compensation actions.
 - 2. Existing topography, ground-proofed, at two-foot contour intervals in the zone of the proposed compensation actions if any grading activity is proposed to create the compensation area(s). Also existing cross-sections of on-site wetland areas that are proposed to be impacted, and cross-section(s) (estimated one-foot intervals) for the proposed areas of wetland or buffer compensation.
 - 3. Conditions expected from the proposed actions on site, including future hydrogeomorphic types, vegetation community types by dominant species (wetland and upland), and future water regimes.
 - 4. Required wetland buffers for existing wetlands and proposed compensation areas. Also, identify any zones where buffers are proposed to be reduced or enlarged outside of the standards identified in this Chapter.
 - 5. A planting plan for the compensation area, including all species by proposed community type and water regime, size and type of plant material to be

installed, spacing of plants, typical clustering patterns, total number of each species by community type, and timing of installation.

- 16. Buffer Mitigation Ratios. Impacts to buffers shall be mitigated at a minimum 1:1 ratio. Compensatory buffer mitigation shall replace those buffer functions lost from development.
- 17. Protection of the Mitigation Site. The area where the mitigation occurred and any associated buffer shall be located in a critical area tract or a conservation easement consistent with YMC 15.27 Part six.
- 18. Monitoring. Mitigation monitoring shall be required for a period necessary to establish that performance standards have been met, but not for a period less than five years. If a scrub-shrub or forested vegetation community is proposed, monitoring may be required for ten years or more. The project mitigation plan shall include monitoring elements that ensure certainty of success for the project's natural resource values and functions. If the mitigation goals are not obtained within the initial five-year period, the applicant remains responsible for restoration of the natural resource values and functions until the mitigation goals agreed to in the mitigation plan are achieved.
- 19. Advance Mitigation. Mitigation for projects with pre-identified impacts to wetlands may be constructed in advance of the impacts if the mitigation is implemented according to federal rules, state policy on advance mitigation, and state water quality regulations consistent with *Interagency Regulatory Guide: Advance Permittee-Responsible Mitigation* (Ecology Publication #12-06-015, Olympia, WA, December 2012).
- 20. Alternative Mitigation Plans. The Administrator may approve alternative wetland mitigation plans that are based on best available science, such as priority restoration plans that achieve restoration goals identified in the SMP. Alternative mitigation proposals must provide an equivalent or better level of protection of wetland functions and values than would be provided by the strict application of this chapter. The Administrative Official shall consider the following for approval of an alternative mitigation proposal:
 - a. The proposal uses a watershed approach consistent with *Selecting Wetland Mitigation Sites Using* a Watershed Approach (Eastern Washington)(Ecology Publication #10-06-07, November 2010).
 - <u>b.</u> Creation or enhancement of a larger system of natural areas and open space is preferable to the preservation of many individual habitat areas.
 - c. Mitigation according to Section E is not feasible due to site constraints such as parcel size, stream type, wetland category, or geologic hazards.
 - d. There is clear potential for success of the proposed mitigation at the proposed mitigation site.
 - e. The plan shall contain clear and measurable standards for achieving compliance with the specific provisions of the plan. A monitoring plan shall, at a minimum, meet the provisions in Section J.
 - f. The plan shall be reviewed and approved as part of overall approval of the proposed use.
 - g. A wetland of a different type may be justified based on regional needs or functions and values; the replacement ratios may not be reduced or eliminated unless the reduction results in a preferred environmental alternative.
 - h. Mitigation guarantees shall meet the minimum requirements as outlined in Section 10.B.i.8.
 - i. Qualified professionals in each of the critical areas addressed shall prepare the plan.
 - j. The City may consult with agencies with expertise and jurisdiction over the critical areas during the review to assist with analysis and identification of appropriate performance measures that adequately safeguard critical areas.

Projects that propose compensation for wetland acreage and/or functions are subject to state and federal regulations. Compensatory mitigation for alterations to wetlands shall provide for no net loss of wetland functions and values, and must be consistent with the mitigation plan requirements of YMC 17.09.010(P)(13). The following documents were developed to assist applicants in meeting the above requirements.

1. Compensatory mitigation plans must be consistent with Guidance on Wetland Mitigation in Washington State Part 2: Guidelines for Developing Wetland Mitigation Plans and Proposals or as revised (Washington State Department of Ecology, U.S. Army Corps of Engineers Seattle District, and U.S. Environmental Protection Agency Region 10; Ecology Publication Number 04-06-013B).

2. Compensatory mitigation application and ratios for mitigation of wetlands shall be consistent with Wetlands in Washington State Volume 2: Guidance for Protecting and Managing Wetlands Appendix 8 D § 8 D3 or as revised (Washington State Department of Ecology. Publication Number 05 06 008).

The Yakima Municipal Code is current through Ordinance 2015-047, passed December 8, 2015. Page 68/69 G. Wetland Mitigation Banks.

1. Credits from a wetland mitigation bank may be approved for use as compensation for unavoidable impacts to wetlands when:

a. The bank is certified under Chapter 90.84 RCW or Chapter 173 700 WAC;

b. The shoreline administrator determines that the wetland mitigation bank can provide appropriate compensation for the authorized impacts; and

c. The proposed use of credits is consistent with the terms and conditions of the bank's certification.

2. Replacement ratios for projects using bank credits shall be consistent with replacement ratios specified in the bank's certification.

<u>3. Credits from a certified wetland mitigation bank may be used to compensate for impacts located within the service area specified in the bank's certification. In some cases, bank service areas may include portions of more than one adjacent drainage basin for specific wetland functions. (Ord. 2015 002 § 1 (Exh. A)(part)).</u>



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Appendix E Periodic Update Checklist for Cities – Updated June 2016

Covers laws through 2016

This checklist is intended to help cities that are fully planning under the Growth Management Act (GMA) to conduct the "periodic review and update" of comprehensive plans and development regulations required by RCW 36.70A.130(4). Cities can use the checklist to identify components of their comprehensive plan and development regulations that may need to be updated to reflect the latest local conditions or to comply with changes to the GMA since their last update.

This checklist includes components of the comprehensive plan and development regulations that are specifically <u>required</u> by the GMA. Statutory requirements adopted since 2003 are emphasized in highlighted text to help identify new components of the GMA that may not have been addressed in annual updates or other amendments outside of the required periodic update process. Cities within the Puget Sound Regional Council boundaries may want to use this checklist in tandem with PSRC checklists. A separate checklist is available for counties.

How to fill out the checklist

With the most recent version of your comprehensive plan and development regulations in hand, fill out each item in the checklist. Select the check box or type in text fields, answering the following questions:

Is this item addressed in your current plan or regulations? If YES, fill in the form with citation(s) to where in the plan or code the item is addressed. We recommend using citations rather than page numbers because they stay the same regardless of how the document is printed. If you have questions about the requirement, follow the hyperlinks to the relevant statutory provision or rules. If you still have questions, visit the Commerce Web page or the Commerce planner assigned to your region.

Is amendment needed to meet current statute? Check YES to indicate a change to your plan or regulations will be needed. Check NO to indicate that the GMA requirement has already been met. Local updates may not be needed if the statute hasn't changed since your previous update, if your county has kept current with required inventories, or if there haven't been many changes in local circumstances.

Use the "Notes" column to add additional information to note areas where your county may elect to work on or amend sections of your plan or development regulations that are not strictly required by the GMA, or to indicate if the item is not applicable to your jurisdiction.

Addressed	Changes	Notes
in current	needed to	
plan or	meet	
regs? If yes,	current	
where?	statute?	

How to use the completed checklist

Commerce strongly encourages you to use the completed checklist to develop a detailed work plan (see *Appendix B*) for your periodic update. The checklist can be used to inform the contents of a council resolution that defines what actions will be taken as part of the GMA periodic update.

Addressed	Changes	Notes
in current	needed to	
plan or	meet	
regs? If yes,	current	
where?	statute?	

I. Required Comprehensive Plan Elements and Components

	 A Land Use Element that is consistent with countywide planning policies (CWPPs) and RCW 36.70A.070(1). 				
a.	A future land use map showing city limits and urban growth area (UGA) boundaries. RCW 36.70A.070(1) and RCW 36.70A.110(6) WAC 365-196-400(2)(d), WAC 365-196-405(2)(i)(ii)	X Yes No Location(s) Exhibit 1.1	□ Yes □ No		
b.	Consideration of urban planning approaches that increase physical activity . RCW 36.70A.070(1), Amended in 2005 WAC 365-196-405 (2)(j)	X Yes No Location(s) Goals 1.3, 1.4, 1.5, 1.10	□ Yes □ No		
с.	A consistent population projection throughout the plan which should be consistent with the Office of Financial Management forecast for the county or the county's sub- county allocation of that forecast. RCW 43.62.035, WAC 365-196-405(f)	X Yes No Location(s) Various	☐ Yes ☐ No		
d.	Estimates of population densities and building intensities based on future land uses. RCW 36.70A.070(1); WAC 365-196-405(2)(i)	X Yes No Location(s) Various	□ Yes □ No		
e.	Provisions for protection of the quality and quantity of groundwater used for public water supplies. RCW 36.70A.070(1)	X Yes No Location(s) Natural Systems Element	□ Yes □ No		
f.	Identification of lands useful for public purposes such as utility corridors, transportation corridors, landfills, sewage treatment facilities, stormwater management facilities, recreation, schools, and other public uses. RCW 36.70A.150 and WAC 365-196-340	X Yes No Location(s) Utilities Element, Capital	□ Yes □ No		

		Addressed in current plan or regs? If yes, where?	Changes needed to meet current statute?	Notes
		Facilities Element, Parks and Recreation Element, Transporta tion Element		
g.	Identification of open space corridors within and between urban growth areas, including lands useful for recreation, wildlife habitat, trails, and connection of critical areas. RCW 36.70A.160 and WAC 365-196-335	X Yes No Location(s) Parks and Recreation Element	☐ Yes ☐ No	
h.	<i>If</i> there is an airport within or adjacent to the city: policies , land use designations <i>(and zoning)</i> to discourage the siting of incompatible uses adjacent to general aviation airports . [RCW 36.70A.510, RCW 36.70.547, New in 1996)] <i>Note:</i> The plan <i>(and associated regulations)</i> must be filed with the Aviation Division of WSDOT. WAC 365-196-455	X Yes No Location(s) Goal 1.14	□ Yes □ No	
i.	<i>If</i> there is a Military Base within or adjacent to the jurisdiction employing 100 or more personnel: policies, land use designations , <i>(and consistent zoning)</i> to discourage the siting of incompatible uses adjacent to military bases. RCW 36.70A.530(3), New in 2004. See WAC 365-196-475	☐ Yes ☐ No Location(s)	☐ Yes ☐ No	N/A
j.	Where applicable, a review of drainage, flooding, and stormwater run-off in the area and nearby jurisdictions and provide guidance for corrective actions to mitigate or cleanse those discharges that pollute waters of the state. RCW 36.70A.70(1) and WAC 365-196-405(2)(c) <i>Note:</i> RCW 90.56.010(26) defines waters of the state.	X Yes No Location(s) Natural Systems Element, CAO, SMP	☐ Yes ☐ No	
k.	Policies to designate and protect critical areas including wetlands, fish and wildlife habitat protection areas, frequently flooded areas, critical aquifer recharge areas, and geologically hazardous areas. In developing these policies,	X Yes □ No Location(s)	□ Yes □ No	

		Addressed in current plan or regs? If yes, where?	Changes needed to meet current statute?	Notes
	the city must have included the best available science (BAS) to protect the functions and values of critical areas, and give "special consideration" to conservation or protection measures necessary to preserve or enhance anadromous fisheries. RCW 36.70A.030(5), RCW 36.70A.172, BAS added in 1995. See WAC 365-195-900 through -925, WAC 365-190-080 <i>Note:</i> A voluntary stewardship program was created in 2011 as an alternative for protecting critical areas in areas used for agricultural activities. Counties had the opportunity to opt into this voluntary program before January 22, 2012. See requirements of the voluntary stewardship program. RCW 36.70A.700 through .904.	Natural Systems Elements, CAO, SMP		
Ι.	<i>If</i> forest or agricultural lands of long-term commercial significance are designated <i>inside</i> city: a program authorizing Transfer (or Purchase) of Development Rights. RCW 36.70A.060(4), Amended in 2005	☐ Yes ☐ No Location(s)	☐ Yes ☐ No	N/A
2.	A Housing Element to ensure the vitality and character of esta is consistent with relevant CWPPs, and RCW 36.70A.070(2).	blished reside	ntial neighbo	rhoods and
a.	Goals, policies, and objectives for the preservation, improvement, and development of housing. RCW 36.70A.070(2)(b) and WAC 365-196-410(2)(a)	X Yes No Location(s) Housing Element Section 4.4	□ Yes □ No	
b.	An inventory and analysis of existing and projected housing needs over the planning period. RCW 36.70A.070(2)(a) and WAC 365-196-410(2)(b) and (c)	X Yes No Location(s) Existing Conditions Report and SEIS	□ Yes □ No	
C.	Identification of sufficient land for housing , including but not limited to, government-assisted housing, housing for low-income families, manufactured housing, multifamily	X Yes No Location(s)	□ Yes □ No	

	housing, group homes, and foster care facilities. RCW 36.70A.070(2)(c)	Addressed in current plan or regs? If yes, where? Existing Conditions Report, Future Land Use Map	Changes needed to meet current statute?	Notes
d.	Adequate provisions for existing and projected housing needs for all economic segments of the community. RCW 36.70A.070(2)(d) and WAC 365-196-410	X Yes No Location(s) Existing Conditions Report, Future Land Use Map	□ Yes □ No	
e.	<i>If</i> enacting or expanding an affordable housing program under RCW 36.70A.540: identification of land use designations within a geographic area where increased residential development will assist in achieving local growth management and housing policies. RCW 36.70A.540, New in 2006 . WAC 365-196-870	X Yes No Location(s) Future Land Use Map, ONDS Annual Action Plan	□ Yes □ No	
f.	Policies so that manufactured housing is not regulated differently than site built housing. RCW 35.21.684, 35.63.160, 35A.21.312, and 36.01.225, Amended in 2004	X Yes No Location(s) YMC 15.04.160	□ Yes □ No	
g.	<i>If</i> the city has a population of over 20,000: provisions for accessory dwelling units (ADUs) to be allowed in single- family residential areas. RCW 36.70A.400, RCW 43.63A.215(3)	X Yes No Location(s) YMC 15.09.045	□ Yes □ No	
3.	A Capital Facilities Plan (CFP) Element to serve as a check on t	he practicality	of achieving	other

3. A Capital Facilities Plan (CFP) Element to serve as a check on the practicality of achieving other elements of the plan, covering all capital facilities planned, provided, and paid for by public entities including local government and special districts, etc.; including water systems, sanitary sewer systems, storm water facilities, schools, parks and recreational facilities, police and fire protection

Addressed	Changes	Notes
in current	needed to	
plan or	meet	
regs? If yes,	current	
where?	statute?	

facilities. Capital expenditures from Park and Recreation elements, if separate, should be included in the CFP Element. The CFP Element must be consistent with CWPPs, and RCW 36.70A.070(3), and include:

a.	Policies or procedures to ensure capital budget decisions are in conformity with the comprehensive plan . RCW 36.70A.120	X Yes No Location(s) Capital Facilities Element (CFE), all sections; Capital Facilities Plan (CFP) § 1.0	☐ Yes ☐ No	
b.	An inventory of existing capital facilities owned by public entities. RCW 36.70A.070(3)(a) and WAC 365-196-415(2)(a)	X Yes No Location(s) CFP § 3.0	□ Yes □ No	
с.	A forecast of needed capital facilities. RCW 36.70A.070(3)(b) and WAC 365-196-415 (b) <i>Note:</i> The forecast of future need should be based on projected population and adopted levels of service (LOS) over the planning period.	X Yes No Location(s) CFP §§ 2.0, 4.0	☐ Yes ☐ No	
d.	Proposed locations and capacities of expanded or new capital facilities. RCW 36.70A.070(3)(c) and WAC 365-196-415 (3)(C)	X Yes No Location(s) CFP § 4.0	□ Yes □ No	
e.	A six-year plan (at least) identifying sources of public money to finance planned capital facilities. RCW 36.70A.070(3)(d) and RCW 36.70A.120 WAC 365-196-415	X Yes No Location(s) Capital Improveme nt Program	□ Yes □ No	
f.	A policy or procedure to reassess the Land Use Element if probable funding falls short of meeting existing needs. RCW 36.70A.070(3)(e) WAC 365-196-415(2)(d)	X Yes No Location(s)	☐ Yes ☐ No	

		Addressed in current plan or regs? If yes, where?	Changes needed to meet current statute?	Notes
		CFW Policy 6.1.11		
g.	<i>If</i> impact fees are collected: identification of public facilities on which money is to be spent. RCW 82.02.050(4) and WAC 365-196-850	 Yes No Location(s) 	□ Yes □ No	N/A
4.	A Utilities Element which is consistent with relevant CWPPs a	nd RCW 36.70/	4.070(4) and	includes:
а.	The general location, proposed location and capacity of all existing and proposed utilities. RCW 36.70A.070(4) and WAC 365-196-420	X Yes No Location(s) Utilities Element	☐ Yes ☐ No	
5.	5. A Transportation Element which is consistent with relevant CWPPs and RCW 36.70A.070(6) and includes:			
a.	An inventory of air, water, and ground transportation facilities and services, including transit alignments, state- owned transportation facilities, and general aviation airports. RCW 36.70A.070(6)(a)(iii)(A) and WAC 365-196-430(2)(c).	X Yes No Location(s) TSP Chapter 2	X Yes No TSP Chapter 2	
b.	Adopted levels of service (LOS) standards for all arterials, transit routes and highways. RCW 36.70A.070(6)(a)(iii)(B), New in 1997. WAC 365-196-430	X Yes No Location(s) TSP § 1.6 and Ch. 4; Transporta tion Element §	☐ Yes ☐ No	
с.	Identification of specific actions to bring locally-owned transportation facilities and services to established LOS. RCW 36.70A.070(6)(a)(iii)(D), Amended in 2005. WAC 365-196-430	X Yes No Location(s) TSP Ch. 4, YMC Ch. 12.08	☐ Yes ☐ No	
d.	A forecast of traffic for at least 10 years, including land use assumptions used in estimating travel. RCW 36.70A.070(6)(a)(i), RCW 36.70A.070(6)(a)(iii)(E) WAC 365-196-430(2)(f).	X Yes No Location(s)	□ Yes □ No	

		Addressed in current plan or regs? If yes, where?	Changes needed to meet current statute?	Notes
		TSP and Element, Various		
e.	A projection of state and local system needs to meet current and future demand. RCW 36.70A.070(6)(a)(iii)(F) and WAC 365-196-430(2)(f)	X Yes No Location(s) TSP Ch. 4	X Yes No TSP Ch. 4	
f.	A pedestrian and bicycle component. RCW 36.70A.070(6)(a)(vii), Amended 2005 WAC 365-196-430(2)(j)	X Yes No Location(s) TSP and Element, Various; Bike Plan	X Yes ☐ No TSP and Element, Various; Bike Plan	
g.	A description of any existing and planned transportation demand management (TDM) strategies , such as HOV lanes or subsidy programs, parking policies, etc. RCW 36.70A.070(6)(a)(vi) and WAC 365-196-430(2)(i)	 Yes No Location(s) 	X Yes ❑ No TSP § 4.4	
h.	An analysis of future funding capability to judge needs against probable funding resources. RCW 36.70A.070(6)(a)(iv)(A) and WAC 365.196-430(2)(k)(iv)	 Yes No Location(s) 	X Yes No TSP Ch 5	
i.	A multiyear financing plan based on needs identified in the comprehensive plan, the appropriate parts of which serve as the basis for the 6-year street, road or transit program. RCW 36.70A.070(6)(a)(iv)(B) and RCW 35.77.010 WAC 365-196-430(2)(k)(ii)	☐ Yes ☐ No Location(s)	X Yes No TSP Ch 5; 2017-2022 TIP	
ј.	<i>If</i> probable funding falls short of meeting identified needs: a discussion of how additional funds will be raised , or how land use assumptions will be reassessed to ensure that LOS standards will be met. RCW 36.70A.070(6)(a)(iv)(C) and WAC 365-196-430(2)(I)(ii)	☐ Yes ☐ No Location(s)	X Yes ☐ No TSP § 5.4	
k.	A description of intergovernmental coordination efforts , including an assessment of the impacts of the transportation	X Yes D No	X Yes No	

	plan and land use assumptions on the transportation systems of adjacent jurisdictions and how it is consistent with the regional transportation plan. RCW 36.70A.070(6)(a)(v); WAC 365-196-430(2)(a)(iv)	Addressed in current plan or regs? If yes, where? Location(s) TSP § 1.4	Changes needed to meet current statute? TSP § 1.4	Notes
6.	Provisions for siting essential public facilities (EPFs), consister This section can be included in the Capital Facilities Element, La element. Sometimes the identification and siting process for E	and Use Eleme	ent, or in its o	
a.	A process or criteria for identifying and siting essential public facilities (EPFs). [RCW 36.70A.200, Amended in 1997 and 2001] <i>Notes:</i> EPFs are defined in RCW 71.09.020(14). Cities should consider OFM's list of EPFs that are required or likely to be built within the next six years. Regional Transit Authority facilities are included in the list of essential public facilities RCW 36.70A.200, amended 2010. WAC 365-196-550(d)	X Yes No Location(s) Land Use Element Goal 1.13	□ Yes □ No	
b.	Policies or procedures that ensure the comprehensive plan does not preclude the siting of EPFs. RCW 36.70A.200(5) <i>Note:</i> If the EPF siting process is in the CWPPs, this policy may be contained in the comprehensive plan as well. WAC 365-196-550(3)	X Yes No Location(s) CWPP, Land Use Element Goal 1.13	☐ Yes ☐ No	
7.	Consistency is required by the GMA.			
а.	All plan elements must be consistent with relevant county- wide planning policies (CWPPs) and, where applicable, Multicounty Planning Policies (MPPs), and the GMA. RCW 36.70A.100 and 210 WAC 365-196-400(2)(c), 305 and 520	X Yes No Location(s) Various locations throughout the plan	☐ Yes ☐ No	
b.	All plan elements must be consistent with each other . RCW 36.70A.070 (preamble), and WAC 365-197-400(2)(f)	X Yes No Location(s) 2040 Comprehe nsive Plan	☐ Yes ☐ No	

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Addressed	Changes	Notes
in current	needed to	
plan or	meet	
regs? If yes,	current	
where?	statute?	

c.	The plan must be coordinated with the plans of adjacent jurisdictions. RCW 36.70A.100 and WAC 365-196-520	X Yes □ No Location(s)	□ Yes □ No	
a.	Shoreline Provisions			
	Comprehensive plan acknowledges that for shorelines of the state, the goals and policies of the shoreline management act as set forth in RCW 90.58.020 are added as one of the goals of this chapter as set forth in RCW 36.70A.020 without creating an order of priority among the fourteen goals. The goals and policies of the shoreline master program approved under RCW 90.58 shall be considered an element of the comprehensive plan. RCW 36.70A.480, WAC 365-196-580	X Yes No Location(s) Natural Environme nt Element, YMC Title 17	☐ Yes ☐ No	
b.	Public participation, plan amendments and monitoring. <i>Note</i> : House Bill 2834, passed in 2012, eliminates the requirer GMA to report every 5 years on its progress in implementing			der the
a.	A process to ensure public participation in the comprehensive planning process. RCW 36.70A.020(11), .035, and .140; WAC 365-196-600(3) The process should address annual amendments (if the jurisdiction allows for them) [RCW 36.70A.130(2), Amended in 2006], emergency amendments [RCW 36.70A.130(2)(b)], and may include a specialized periodic update process. Plan amendment processes may be coordinated among cities within a county [RCW 36.70A.130(2)(a)] and should be well publicized.	X Yes No Location(s) Public Participatio n Plan, YMC Ch. 16.10	□ Yes □ No	
b.	A process to assure that proposed regulatory or administrative actions do not result in an unconstitutional taking of private property . See Attorney General's Advisory Memorandum: Avoiding Unconstitutional Takings of Private Property for guidance. RCW 36.70A.370	X Yes No Location(s) YMC Ch. 15.10	□ Yes □ No	

II. Required Components of Development Regulations WAC 365-196-810

Addressed	Changes	Notes
in current	needed to	
plan or	meet	
regs? If yes,	current	
where?	statute?	

	10. Regulations designating and protecting critical areas are readed and a second s	B 1886 (2011) ties. Counties	as an alterna may choose t	tive for to opt into
a.	Classification and designation of each of the five types of critical areas (wetlands, critical aquifer recharge areas, fish and wildlife habitat conservation areas, frequently flooded areas, and geologically hazardous areas), if they are found within your city. RCW 36.70A.170 ; WAC 365-196-830(2) <i>Note</i> : Senate Bill 5292 adopted in 2012 clarified that certain water-based artificial features or constructs are excluded from being considered part of a fish and wildlife habitat conservation areas.	X Yes No Location(s) YMC Ch. 15.27	☐ Yes ☐ No	
b.	Findings that demonstrate Best Available Science (BAS) was included in developing policies and development regulations to protect the function and values of critical areas. In addition, findings should document special consideration given to conservation or protection measures necessary to preserve or enhance anadromous fisheries. RCW 36.70A.172(1); WAC 365-195, WAC 365-195	X Yes No Location(s) Natural Environme nt Element, YCM Ch. 15.27	☐ Yes ☐ No	
C.	Regulations that protect the functions and values of wetlands. RCW 36.70A.060(2) and RCW 36.70A.172(1) WAC 365-190-090	X Yes No Location(s)	☐ Yes ☐ No	
d.	A definition of wetlands consistent with RCW 36.70A.030(21) WAC 365-190-090, WAC 173-22-035	X Yes No Location(s) YMC 15.27.200	☐ Yes ☐ No	
e.	Delineation of wetlands using the approved federal wetlands delineation manual and applicable regional supplements [RCW 36.70A.175, RCW 90.58.380 (1995) (2011)] WAC 173-22-035	☐ Yes ☐ No Location(s)	X Yes No YMC 17.09.040. D.2; 15.27.603.B	

		Addressed in current plan or regs? If yes, where?	Changes needed to meet current statute?	Notes
f.	Regulations that protect the functions and values of critical aquifer recharge areas ("areas with a critical recharging effect on aquifers used for potable water" RCW 36.70A.030(5)(b)). RCW 36.70A.060(2), RCW 36.70A.172(1) and WAC 365-190-100	X Yes No Location(s) YMC 15.27.820	X Yes No YMC 15.27.820	
g.	Regulations to protect the quality and quantity of ground water used for public water supplies. RCW 36.70A.070(1)	X Yes No Location(s) YMC 15.27.820	X Yes No YMC 15.27.820	
h.	Regulations that protect the functions and values of fish and wildlife habitat conservation areas. RCW 36.70A.060(2) and RCW 36.70A.172(1) WAC 365-195-925(3), 365-190-130	X Yes No Location(s) YMC 15.27 Part 5	X Yes No YMC 15.27 Part 5	
i.	Regulations that protect the functions and values of frequently flooded areas. RCW 36.70A.060(2) and RCW 36.70A.172(1) WAC 365-190-110, WAC 173-158-040	X Yes No Location(s) YMC 15.27 Part 4	X Yes No YMC 15.27 Part 4	
j.	Definition of "fish and wildlife habitat conservation areas" does not include such artificial features or constructs as irrigation delivery systems, irrigation infrastructure, irrigation canals, or drainage ditches that lie within the boundaries of and are maintained by a port district or an irrigation district or company. New in 2012 . RCW 36.70A.030(5)	 Yes No Location(s) 	X Yes No YMC 15.27.200	
k.	Provisions to ensure water quality and stormwater drainage regulations are consistent with applicable Land Use Element policies. RCW 36.70A.070(1)	X Yes No Location(s) YMC 15.27, Land Use Element Goal 1.7	☐ Yes ☐ No	
I.	Regulation of geologically hazardous areas consistent with public health and safety concerns. RCW 36.70A.030(9), RCW 36.70A.060(2) and RCW 36.70A.172(1) WAC 365-190-120	X Yes No Location(s) YMC 15.27 Part 7	X Yes No YMC 15.27 Part 7	

	Addressed in current plan or regs? If yes, where?	Changes needed to meet current statute?	Notes
 m. Provisions that allow "reasonable use" of properties constrained by presence of critical areas. RCW 36.70A.370. See Attorney General's Advisory Memorandum: Avoiding Unconstitutional Takings of Private Property for guidance 	X Yes No Location(s) YMC 15.27.318	☐ Yes ☐ No	
 <i>If</i> your city is assuming regulation of forest practices as provided in RCW 76.09.240: forest practices regulations that protect public resources, require appropriate approvals for all phases of conversion of forest lands, are guided by GMA planning goals, and are consistent with adopted critical areas regulations. RCW 36.70A.570, Amended in 2007, 2010 and RCW 76.09.240 Amended in 2007, 2010 Note: Applies only to counties fully planning under the GMA with a population greater than 100,000 and the cities and towns within those counties where a certain number of Class IV applications have been filed within a certain timeframe. 	Location(s)	☐ Yes ☐ No	N/A
11. Shoreline Master Program See Washington State Department of Ecology's SMP Submittal C	hecklist		
a. Zoning is consistent with Shoreline Master Program (SMP) environmental designations. RCW 36.70A.070; RCW 36.70A.480 and WAC 365-196-580	X Yes No Location(s) YMC Title 17	☐ Yes ☐ No	
 b. If SMP regulations have been updated to meet Ecology's shoreline regulations: protection for critical areas in shorelines is accomplished solely through the SMP. RCW 36.70A.480(4), Amended in 2003 and 2010 and RCW 90.58.090(4). WAC 365-196-580 	 Yes No Location(s) 	X Yes No YMC 15.27.120	
12. The Zoning Code should contain the following provisions:			•
 a. Family daycare providers are allowed in areas zoned for residential or commercial uses. Zoning conditions should be no more restrictive than those imposed on other residential dwellings in the same zone, but may address drop-off and pickup areas and hours of operation. RCW 36.70A.450, WAC 365-196-865 	X Yes No Location(s) YMC Ch. 15.04, Table 4-2	□ Yes □ No	

		Addressed in current plan or regs? If yes, where?	Changes needed to meet current statute?	Notes
b.	Manufactured housing is regulated the same as site-built housing. RCW 35.21.684, 35.63.160, 35A.21.312 and 36.01.225, All Amended in 2004	X Yes No Location(s) YMC 15.04.160	☐ Yes ☐ No	
c.	<i>If</i> the city has a population over 20,000 accessory dwelling units (ADUs) are allowed in single-family residential areas. RCW 43.63A.215(3)	X Yes No Location(s) YMC 15.09.045	□ Yes □ No	
d.	<i>If</i> there is an airport within or adjacent to the city: zoning that discourages the siting of incompatible uses adjacent to general aviation airports. RCW 36.70A.510, RCW 36.70.547, New in 1996) <i>Note:</i> The zoning regulations must be filed with the Aviation Division of WSDOT. WAC 365-196-455	X Yes No Location(s) YMC Ch. 15.30	□ Yes □ No	
e.	<i>If</i> there is a Military Base within or adjacent to the jurisdiction employing 100 or more personnel: zoning that discourages the siting of incompatible uses adjacent to military bases. RCW 36.70A.530(3), New in 2004. WAC 365-196-475	 Yes No Location(s) 	□ Yes □ No	N/A
0.	Residential structures that are occupied by persons with handicaps must be regulated the same as a similar residential structure occupied by a family or other unrelated individuals. RCW 36.70A.410, WAC 365-196-860	X Yes No Location(s) YMC Title 15	□ Yes □ No	
p.	Cities adjacent to I-5, I-90, I-405, or SR 520 and counties for lands within 1 mile of these highways must adopt regulations that allow electric vehicle infrastructure (EVI) as a use in all areas except those zoned for residential or resource use, or critical areas by July 1, 2011. RCW 36.70A.695, New in 2009	 Yes No Location(s) 	☐ Yes ☐ No	N/A
q.	Development regulations of all jurisdictions must allow electric vehicle battery charging stations in all areas except those zoned for residential or resource use, or critical areas by July 1, 2011 . RCW 36.70A.695, New in 2009	 Yes No Location(s) 	X Yes No New language added to YMC Ch. 15.06	

Addressed	Changes	Notes
in current	needed to	
plan or	meet	
regs? If yes,	current	
where?	statute?	

13	. Subdivision Code regulations			
а.	Subdivision code is consistent with and implements comprehensive plan policies . RCW 36.70A.030(7)and 36.70A.040(4)(d), WAC 365-196-820	X Yes No Location(s) YMC Title 14	□ Yes □ No	
b.	Code requires written findings documenting that proposed subdivisions provide appropriate provision under RCW 58.17.110(2)(a) for: Streets or roads, sidewalks, alleys, other public ways, transit stops, and other features that assure safe walking conditions for students; potable water supplies [RCW 19.27.097], sanitary wastes, and drainage ways (stormwater retention and detention); open spaces, parks and recreation, and playgrounds; and schools and school grounds. WAC 365-196-820(1)	X Yes No Location(s) YMC 14.15.060, 14.20.100	□ Yes □ No	
c.	Subdivision regulations may implement traffic demand management (TDM) policies. RCW 36.70A.070(6)(a)(vi)	 Yes No Location(s) 	□ Yes □ No	N/A
d.	Preliminary subdivision approvals under RCW 58.17.140 are valid for a period of five, seven, or nine years. [RCW 58.17.140 and RCW 58.17.170. Amended 2010 by SB 6544. Expires 2014. Amended 2012 by HB 2152 <i>Note</i> : House Bill 2152, adopted by the Legislature in 2012, modified timelines. The preliminary plat approval is valid for: seven years if the date of preliminary plat approval is on or before December 31, 2014; five years if the preliminary plat approval is issued on or after January 1, 2015; and ten years if the project is located within city limits, not subject to the shoreline management act, and the preliminary plat is approved on or before December 31, 2007.	☐ Yes ☐ No Location(s)	X Yes No New language added to YMC 14.20.160	
14	. Concurrency , Impact Fees, and TDM		•	
a.	The transportation concurrency ordinance includes specific language that prohibits development when level of service standards for transportation facilities cannot be met. RCW 36.70A.070(6)(b)	X Yes No Location(s) YMC Ch. 12.08	□ Yes □ No	

	Addressed in current plan or regs? If yes, where?	Changes needed to meet current statute?	Notes
ESB 5923 (laws of 2015) requires counties, cities, and towns to delay the starting of the six-year time frame until after deferred impact fees are due. For more information see MRSCs Impact Fee Deferral Program web page. Adopted in 2015			
 b. <i>If</i> adopted: impact fee methods are consistent with RCW 82.02.050 through 100 <i>Note:</i> The timeframe for expending or encumbering impact fees has been extended to ten years. RCW 82.02.070 and RCW 82.02.080, Amended in 2011. WAC 365-196-850 ESB 5923 (laws of 2015) requires counties, cities, and towns to adopt a deferral system for the collection of impact fees for new single-family detached and attached residential construction. by September 1, 2016. Adopted in 2015For more information see MRSCs Impact Fee Deferral Program web page. 	☐ Yes ☐ No Location(s)	☐ Yes ☐ No	N/A
If required by RCW 70.94.527: a commute trip reduction (CTR)ordinance to reduce the proportion of single-occupant vehicle commute trips. RCW 70.94.521-551, Amended in 2006. WAC 468-63 Note: See WSDOT's CTR web page for more information.	X Yes No Location(s) YMC Ch. 5.90	☐ Yes ☐ No	
15. Siting Essential Public Facilities (EPFs)			
Regulations are consistent with Essential Public Facility siting process in countywide planning policies or city comprehensive plan, and do not preclude the siting of EPFs. RCW 36.70A.200(5) and WAC 365-196-550	X Yes No Location(s) LU Element Goal 1.13 and subsequen t policies	☐ Yes ☐ No	
16. Project Review Procedures	1		
Project review processes integrate permit and environmental review for: notice of application; notice of complete application; one open-record public hearing; allowing applicants to combine public hearings and decisions for multiple permits; notice of decision; one closed-record appeal. RCW 36.70A.470, RCW 36.70B and RCW 43.21C	X Yes No Location(s) YMC Title 16	☐ Yes ☐ No	

	Addressed in current plan or regs? If yes, where?	Changes needed to meet current statute?	Notes
WAC 365-196-845			
17. General Provisions: The GMA requires that development regulations be consistent with and implement the comprehensive plan. RCW 36.70A.030(7) and .040(4)(d). Regulations should also include:			
 a. A process for early and continuous public participation in the development regulation development and amendment process. RCW 36.70A.020(11),.035, .130 and .140 	X Yes No Location(s) YMC Ch. 15.23	□ Yes □ No	
 b. A process to assure that proposed regulatory or administrative actions do not result in an unconstitutional taking of private property. RCW 36.70A.370, WAC 365-196- 855 Note: See Attorney General's Advisory Memorandum: Avoiding Unconstitutional Takings of Private Property. 	X Yes No Location(s) YMC Ch. 15.10	□ Yes □ No	

This checklist covers the requirements of the Growth Management Act through the laws of 2016. It does not address related issues, or things that are not required but that are commonly found in comprehensive plans and the implementing regulations. http://www.commerce.wa.gov/serving-communities/growth-management/periodic-update/