



City of Mountlake Terrace

# Shoreline Master Program



PERIODIC REVIEW UPDATE  
Adopted September 2019

City of Mountlake Terrace

## **Shoreline Master Program 2019**

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# Shoreline Master Program

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# CHAPTER 1

## INTRODUCTION

### 1.1 USER'S GUIDE TO THE MASTER PROGRAM

A Shoreline Master Program (SMP) is prepared in accordance with the Washington State Shoreline Management Act (SMA or Act) of 1971 (Chapter 90.58 RCW), the State Master Program Approval/Amendment Procedures and Master Program Guidelines (Chapter 173-26 WAC), the Shoreline Management Permit and Enforcement Procedures (Chapter 173-27 WAC), and Washington State Department of Ecology SMP guidelines.

The City of Mountlake Terrace Shoreline Master Program (Master Program) consists of goals, policies, and regulations, together with explanatory text and maps, consistent with the state requirements, as informed by local conditions, to guide development of designated shorelines in the City.

The purposes of this Shoreline Master Program are:

- A. To carry out the responsibilities the City of Mountlake Terrace has as established by the Shoreline Management Act (Chapter 90.58 RCW), within the City's shoreline jurisdiction.
- B. To promote uses and development of the City of Mountlake Terrace shoreline, consistent with this Master Program n, while protecting and restoring environmental resources.
- C. To promote the public health, safety, and general welfare, by providing a guide and regulation for future development of the shoreline resources, of the City of Mountlake Terrace.

### 1.2 AUTHORITY

Authority for enactment and administration of the program is the Shoreline Management Act (SMA or Act) of 1971, Chapter 90.58 RCW, as now or hereafter amended.

### 1.3 APPLICABILITY

The City's Master Program must regulate all "shorelines of the state" and their associated "shorelands", as defined by RCW 90.58.030. Shorelines of the state means all "shorelines" and "shorelines of statewide significance". Shorelands means those lands extending landward for two hundred feet in all directions as measured on a horizontal plane from the ordinary high water mark of a shoreline of the state, as well as any associated wetlands and floodplain.

An Inventory and Characterization Report, 2010 (ICR) was completed for the 2013 SMP update to identify the shorelines of the state in the City. Consistent with the state definitions, the report concluded there were no shorelines of statewide significance in Mountlake Terrace. The report also concluded that the only designated shoreline of the state was Lake Ballinger.

All proposed uses and development occurring within the shoreline jurisdiction of the City of Mountlake Terrace must conform to the Shoreline Management Act and this Master Program. All uses, even those not meeting the definition of development, are subject to the provisions and development regulations of this Master Program, even though a permit may not be required.

#### **1.4 CITY OF MOUNTLAKE TERRACE SHORELINE JURISDICTION**

Based on the SMA definitions and conclusions of the ICR, the shoreline jurisdiction within the City of Mountlake Terrace consists of:

- That portion of Lake Ballinger and the shoreline of Lake Ballinger within city limits; and
- Ballinger Island; and
- The upland area within 200 feet of the ordinary high water mark of Lake Ballinger, as well as any associated wetlands and floodplain.

See Appendix A for Shoreline Planning Area, Map 1.

All proposed uses and development occurring within the shoreline jurisdiction must conform to Chapter 90.58 RCW (Shoreline Management Act), and this Shoreline Master Program.

#### **1.5 RELATIONSHIP TO OTHER PLANS OR REGULATIONS**

- A. Uses, developments, and activities regulated by this Master Program may also be subject to the provisions of the City of Mountlake Terrace Comprehensive Plan, the Washington State Environmental Policy Act (SEPA), Mountlake Terrace Municipal Code (MTMC), and various other provisions of local, state, and federal law, as may be amended. Project proponents shall comply with all applicable laws prior to commencing any use, development, or activity.
- B. The Shoreline Master Program has been developed as a both a policy and a regulatory program. As such, the Shoreline Master Program is a part of and was developed to be consistent with the City of Mountlake Terrace Comprehensive Plan and its component elements.
- C. The MTMC establishes specific and detailed regulations for most of the uses, development, and activities regulated in this chapter. The MTMC and this Master Program are intended to operate together to produce coherent and thorough shoreline regulations. Uses, developments, and activities must comply with both the MTMC and the Shoreline Master Program in all cases. If there is a conflict between the two, the Shoreline Master Program shall prevail.

#### **1.6 LIBERAL CONSTRUCTION**

As provided for in RCW 90.58.900, the Shoreline Management Act is exempted from the rule of strict construction; the Act and this Master Program shall, therefore, be liberally construed to give full effect to the purposes, goals, policies, and standards for which the Act and this Master Program were enacted.

## 1.7 MASTER PROGRAM CONTENTS

This Master Program contains the following components:

### A. GOALS AND GENERAL DEVELOPMENT POLICIES

The Goals express the desires of the people of the City of Mountlake Terrace with respect to the long-range development of the City's shorelines. Each element described in RCW 90.58.100(2) is addressed by a Goal and a series of General Development Policies. These goals and policies form the basis for all succeeding levels of the Master Program but, with the exception of the Shoreline Use Element, are not directly used in the Development Evaluation Process.

B. **USE ACTIVITY POLICIES** address each of the activities enumerated in WAC 173-16-060 and are intended to establish citywide policies for the conduct of each such activity in the shoreline jurisdiction.

C. **USE ACTIVITY REGULATIONS** are designed to regulate the Use Activities in a manner compatible with the policies established for each such activity. These regulations establish minimum performance standards for shoreline activity conduct; deviation from these regulations can only be allowed subject to issuance of a Variance.

D. **ENVIRONMENT DESIGNATION CRITERIA** set forth the "ground rules" to be used in determining which Environment is appropriate to assign a given section of shoreline. (These criteria are not used in the Development Evaluation Process for a specific use proposed within an environment.)

### E. ENVIRONMENT DESIGNATIONS (MAP)

The Environment Designations establish the kinds of activities allowed on a given section of shoreline. They also specify the intensity of use and the manner of use of that shoreline. The general philosophy underlying the use of each Environment is contained in the Management Policies of each designation type. Appendix A contains the Shoreline environment map.

## 1.8 DOCUMENT ORGANIZATION

This Master Program is divided into the following eight parts, consistent with the material to be included within a Master Program, as established in Chapter 173-26 WAC:

A. **CHAPTER 1 – INTRODUCTION**, contains basic and general information regarding the Shoreline Master Program.

B. **CHAPTER 2 – SHORELINE MASTER PROGRAM ELEMENT**, contains the city's goals and policies with respect to the program elements established in Chapter 173-26 WAC.

- C. **CHAPTER 3 – ENVIRONMENT DESIGNATIONS AND POLICIES**, contains information regarding the different shoreline environments to be found within the city including goals and policies specific to each of the shoreline environments.
- D. **CHAPTER 4 – SHORELINE POLICIES AND REGULATIONS**, contains policies and regulations with respect to general Master Program provisions identified in Chapter 173-26 WAC.
- E. **CHAPTER 5 – SHORELINE USE AND MODIFICATION POLICIES AND REGULATIONS**, contains policies and regulations that apply to specific uses and modifications that are regulated under the Shoreline Master Program.
- F. **CHAPTER 6 – ADMINISTRATION**, contains administrative procedures for shoreline permitting.
- G. **CHAPTER 7 – ACRONYMS**
- H. **APPENDICES** – The appendices contain the shoreline environments map and reference regulations and documents pertaining to this Master Program Definitions.
- I. **DEFINITIONS** – Definitions applicable to the Shoreline Master Program are contained in Mountlake Terrace Municipal Code (MTMC), Shoreline Management Chapter 16.10 MTMC.

## **CHAPTER 2**

### **SHORELINE MASTER PROGRAM ELEMENTS**

#### **SHORELINE ELEMENT GOALS AND POLICIES**

The Shoreline Management Act of 1971 establishes eight basic land and water use elements that must be incorporated into the City of Mountlake Terrace's Shoreline Master Program. These elements are: shoreline use, economic development, public access, recreation, circulation, historic/cultural/scientific/education, flood damage prevention and minimization, and conservation. Elements for restoration and enhancement, and implementation have also been provided to accomplish the policy of the Shoreline Management Act.

The following comprehensive set of shoreline goals and general development policies provide the foundation and the framework on which the remainder of the Master Program has been developed. These goals and policies reflect the level of achievement believed to be intrinsically desirable for all shoreline uses, resources, needs and developments.

#### **2.1 SHORELINE USE ELEMENT**

##### **A. GOAL**

Assure appropriate conservation and development of City of Mountlake Terrace's shorelines by allowing those uses which are particularly dependent upon their location on and use of shorelines, as well as other development which provides an opportunity for substantial numbers of people to enjoy the shorelines. This must be done in a manner which will achieve an orderly balance of shoreline uses that do not unduly diminish the quality of the environment.

##### **B. POLICIES**

1. Permit only those uses or conditions that protect the opportunity for shorelines to be used in the future for activities that depend upon a shoreline location, unless identified benefits clearly compensate for the physical, social and/or economic loss to future generations.
2. Ensure that activities and facilities are designed and located on the shoreline in such a manner as to maintain or improve the ecological functions of the shoreline environment and assure no net loss of ecological functions.
3. Assure that all uses and developments are compatible with the site, the surrounding area and the environment.
4. Provide site development performance standards and other appropriate criteria to developers indicating minimum acceptable standards to be achieved.
5. Encourage uses which protect and preserve the potential long-term benefits to the public from compromise by short-term economic gain or convenience.

6. Encourage multiple uses of shorelines where location and integration of compatible uses or activities is feasible.
7. Shoreline land and water areas which are particularly suited for specific and appropriate uses should be reserved for such uses whether they are existing or potential.
8. Prohibit nonwater-dependent or non-water-related uses that permanently alter the shoreline in such a way as to conflict with, or preempt future water-dependent or water-related uses.
9. Allow uses, on a limited time basis that are not water-related or water-dependent, if not permanent and if not requiring permanent modifications of natural shorelines.
10. Implement a management system which will plan for and permit all reasonable and appropriate uses by providing a system of priorities. Those priorities will be established for each designated environment using the following criteria, in order of preference:
  - a. Protection and enhancement of natural areas or systems – those identified as containing or having unique geological, ecological, or biological significance;
  - b. Water-dependent uses – all uses that cannot exist in any other location and are dependent on the water by reason of the intrinsic nature of their operations;
  - c. Water-related uses – those uses which do not depend on a waterfront location to continue their operation, but whose operation is facilitated economically by a shoreline location;
  - d. Non-water related uses – those uses which do not need a waterfront location to operate though they may need easement or utility corridors for access to the water; Non water-oriented uses should be allowed only when substantial public benefit is provided with respect to the goals of the Act for public access and ecological restoration.
  - e. Prohibited uses – those uses which have no relation to the water and whose operation is intrinsically harmful to the shoreline.
12. Encourage continuing biological, geological, ecological, and economic studies of shoreline systems, which will provide a continuously updated data base against which the impact of any proposal relative to the City of Mountlake Terrace Master Program can be judged.
13. Require all development to plan for and control runoff and, when necessary, treat it before discharging from the site. The use of Low Impact Development techniques is encouraged.

## **2.2 ECONOMIC DEVELOPMENT ELEMENT**

### **A. GOAL**

Allow only those transportation facilities and commercial and recreational developments particularly dependent upon their location on and use of City of Mountlake Terrace's shoreline, as well as other developments that will provide substantial numbers of the public an

opportunity to enjoy the shorelines. Minimal disruption of the natural environment is envisioned in the implementation of this goal.

**B. POLICIES**

1. Give priority to transportation facilities and commercial and recreational development that is water-surface or shoreline dependent and those developments that will provide substantial numbers of the public an opportunity to enjoy the shorelines.
2. Limit the adverse effects of new transportation facilities and commercial and recreational development upon the physical environment and natural processes.
3. Encourage clustering and the orderly development of commercial uses.
4. Discourage commercial developments from locating in previously undeveloped areas when it is practicable to locate such developments in previously developed areas.
5. Locate commercial development in areas already developed so long as such areas have not reached their carrying capacity.
6. Encourage the development of commercial and recreational activities which can make use of existing public services.
7. Encourage development toward a multi-use concept to provide public access to the shoreline while maintaining the economic viability of the principal use.

**2.3 PUBLIC ACCESS ELEMENT**

**A. GOAL**

Assure and regulate safe, convenient, and diversified access for the public to the shorelines of Mountlake Terrace and assure that the intrusions created by public access will recognize the rights of private property owners, will not endanger life, and will not adversely affect fragile natural areas.

**B. POLICIES**

1. Respect and protect the enjoyment of private rights in shoreline property when considering public access development.
2. Locate, design, and maintain public access development so as to protect the natural environment and natural processes.
3. Provide for the public health and safety when developing public access.
4. Purchase, or otherwise make available to the public, shoreline properties if their value for public use merits such action.
5. Provide for and design various types of access which are appropriate to the shoreline environment and its specific uses.

6. Control and regulate public access on the publicly-owned shorelines to ensure that it is located, designed, managed, and maintained in a manner that protects shoreline processes and assures no net loss of ecological functions.

## **2.4 CIRCULATION ELEMENT**

### **A. GOAL**

Permit safe and convenient circulation systems appropriate to the shoreline environment that cause minimum disruption to shoreline access, shoreline environment, and minimum conflict between the different users.

### **B. POLICIES**

1. Locate and design circulation systems so as to provide for multiple modes of transportation and to allow for the future incorporation of alternate modes of transportation.
2. Locate and design circulation systems so as to ensure the overall integrity of other social and economic activities and natural systems.
3. Design circulation systems that provide safe and efficient movement of people and products while providing for alternative modes of transportation.
4. Locate, design, and manage circulation systems and activities in a manner that protects shoreline processes and assures no net loss of ecological functions.
5. Ensure that circulation systems and activities do not take private property for public use without just compensation.
6. Locate and design major vehicular circulation systems away from the shoreline so that natural shorelines and floodplains remain substantially unmodified, except for necessary crossings.
7. Encourage corridors for transportation and utilities when they must cross shorelines.

## **2.5 HISTORIC, CULTURAL, SCIENTIFIC AND EDUCATION ELEMENT**

### **A. GOAL**

Protect, preserve, and encourage restoration of those sites and areas on the shorelines of Mountlake Terrace which have significant historic, cultural, educational, or scientific values, in accordance with applicable state and federal laws regarding historic and archaeological resources.

### **B. POLICIES**

1. Preserve and protect to the maximum extent all shoreline area sites, buildings, structures, and objects that have been placed on the national or state historical register.
2. Encourage the preservation for scientific study and public observation all areas known to contain significant archaeological data.

3. Encourage the preservation for the public benefit, with opportunity for appropriate public utilization, significant historic, scientific, and educational areas of the shorelines.

## **2.6 RECREATIONAL ELEMENT**

### **A. GOAL**

Preserve, enlarge, and provide additional opportunities and space for diverse forms of recreation for the public.

### **B. POLICIES**

1. Identify, preserve, protect, and purchase, if feasible, areas with unique recreational characteristics before other development makes such action impossible.
2. Encourage recreational use consistent with the ability of the site to support such use.
3. Locate, design, manage, and maintain recreational uses to assure no net loss of shoreline ecological functions or shoreline processes.
4. Encourage location, design, and operation of recreational development for maximum compatibility with other uses and activities.
5. Provide a balanced choice of recreational opportunities.
6. Encourage innovation and cooperative techniques among public agencies and private persons which increase and diversify recreation opportunities.
7. Encourage private investment in recreational facilities open to the public.
8. Do not substantially impair original natural or recreational values when developing or redeveloping recreational uses.
9. Give recognition to the recreational values of shorelines in their natural state.
10. Recreational development and shoreline restoration and habitat enhancement projects should be coordinated where feasible.
11. Encourage compatible recreational uses in transportation and utility corridors.
12. Encourage development that is consistent with the City's Recreation, Parks, and Open Space Master Plan, and other relevant City planning documents.

## **2.7 CONSERVATION ELEMENT**

### **A. GOAL**

Assure preservation, protection, and restoration of Mountlake Terrace's unique and nonrenewable resources while encouraging the best management practices for the conservation of renewable resources of the shorelines.

**B. POLICIES**

1. Protect the scenic and aesthetic qualities of shorelines and vistas to the fullest extent practicable.
2. Provide for a beneficial utilization of shoreline resources in a way that ensures no net loss of shoreline ecological functions or processes.
3. Identify those areas that have a potential for restoration of damaged features or ecosystems to a higher quality than may currently exist, develop standards for improvement of the conditions in those areas, and provide incentives for achieving such standards.
4. Provide incentives to preserve unique, rare, and fragile natural features and resources as well as scenic vistas, parkways, and wildlife habitats.
5. Encourage the best management practices for the conservation of renewable resources.
6. Identify those areas that are necessary for the support of wild and aquatic life and those having unique geological/biological or historical significance and establish regulations to minimize adverse impact on those areas.
7. Encourage public and private shoreline owners to manage their lands in a way that promotes the proliferation of wildlife, fish, and plants without unduly interfering with existing activities so long as the management of these lands is consistent with this SMP.
8. Protect critical areas and shoreline ecological processes and functions through regulatory and non-regulatory means. Protection may include acquisition of key properties, regulation of development, and incentives to encourage ecologically sound design.
9. The City shall ensure that uses and development in shoreline areas is compatible with the shoreline environments designated in this Shoreline Master Program. Adherence to these designations will ensure that sensitive habitat, ecological systems, and other shoreline resources are protected.
10. New development or redevelopment should avoid or mitigate additional loss of shoreline ecological functions. Developments should be encouraged to improve ecological functions and restore riparian buffers.

**2.8 FLOOD DAMAGE PREVENTION AND MINIMIZATION ELEMENT**

**A. GOAL**

Give consideration to statewide interests in the prevention and minimization of flood damage. Establish and implement applicable floodplain management strategies to minimize private property damage, improve ecological function and prevent species and habitat loss in wetlands and streams.

**B. POLICIES**

1. Require all development to comply with applicable stormwater management regulations.

2. Stormwater source control Best Management Practices that minimize the potential for downstream flooding should be implemented to the maximum extent practicable.
3. Encourage the use of Low Impact Development techniques where practicable.
4. Discourage the cutting of trees, removing of natural soils and vegetation, and alteration of floodplains and wetlands, where such actions could increase the potential for downstream flooding.
5. Support future efforts identify causes of flooding and make recommendations for actions to minimize flooding.
6. Support reassessment and modification, when necessary, of the management of the Lake Ballinger inlet and outlet weirs to maintain the lake level at an elevation that will minimize flooding potential, based on best available science.

## **2.9 RESTORATION AND ENHANCEMENT ELEMENT**

### **A. GOAL**

Support the restoration and enhancement of shoreline ecological functions within the City of Mountlake Terrace through vegetation conservation and timely restoration and enhancement of impaired shoreline areas to achieve a net gain in shoreline ecological functions over time.

### **B. POLICIES**

1. The goals and objectives of the City of Mountlake Terrace Restoration Plan should be supported and pursued to achieve a net gain in shoreline ecological functions.
2. Areas of existing native vegetation should be protected and allowed to mature to enhance shoreline functions and ecological processes.
3. Cooperative restoration programs between local, state, and federal agencies, tribes, non-profit organizations, and landowners should be encouraged to address shorelines with impaired ecological functions and/or processes.
4. Restoration actions should be prioritized to restore native vegetation in riparian and estuarine areas, improve water quality, and restore native vegetation and natural hydrologic functions of degraded areas.
5. Restoration and enhancement efforts should be targeted towards improving habitat requirements of sensitive, priority and/or locally important fish and wildlife species.
6. Shoreline ecological functions and processes and features should be restored and enhanced through voluntary and incentive-based public and private programs.

## **2.10 IMPLEMENTATION ELEMENT**

### **A. GOAL**

Further the intent and policy of the Shoreline Management Act of 1971 through a fair, balanced, and impartial administration of the substantial development permit process and other legal requirements of the act.

### **B. POLICIES**

1. Base all official actions relating to Substantial Development Permits upon the Shoreline Management Act and this Shoreline Master Program.
2. Employ the performance standards of the Master Program equitably to ensure the highest degree of shoreline protection consistent with the proposed development.
3. Process Substantial Development Permits as expeditiously as the law and thorough analysis and review will allow.
4. Seek advice and assistance from recognized experts at federal, state, or local levels whenever technically complex issues are involved in a Substantial Development Permit.
5. Grant variances from the provisions of the Master Program only in those limited instances when strict compliance with the provisions of the Master Program would impose unnecessary hardships on the applicant or thwart the policies set forth in the Shoreline Management Act and the City of Mountlake Terrace Shoreline Master Program; variances shall be granted in strict compliance with the provisions of the Washington Administrative Code relating to same. (WAC 173-27-170).
6. Approve Conditional Uses when they will further the intent of the Master Program, be compatible with their surroundings, and be regulated to minimize undesirable effects on the shoreline of the City; Conditional Uses shall be approved in strict compliance with the provision of the Washington Administrative Code relating to same. (WAC 173-27-160).
7. Comply with the requirements of the State Environmental Policy Act in processing Substantial Development Permits, when applicable, as a means of thoroughly evaluating the impact of a proposed development on the City's shorelines and, thus, furthering the intent of the Master Program.
8. Provide assistance to the general public as necessary and proper with regard to the provisions and requirements of the Shoreline Management Act of 1971 and the City of Mountlake Terrace's Master Program.
9. Provide for periodic review of shoreline uses and their locations as to appropriateness and compatibility with goals and policies.

## CHAPTER 3

# SHORELINE ENVIRONMENT DESIGNATIONS AND POLICIES

### 3.1 INTRODUCTION

In order to plan and effectively manage shoreline resources, the City of Mountlake Terrace has developed a system of categorizing shoreline areas as part of its Master Program. This system is designed to provide a uniform basis for applying policies and use regulations within distinctively different shoreline areas. To accomplish this, the environmental designations to be given any specific area will be based on the existing development pattern, the biophysical capabilities and limitations of the shoreline being considered for development and the goals and aspirations of the public.

The system to be utilized in the City of Mountlake Terrace is based upon the recommendations and requirements of the Shoreline Management Act's environment designation system (WAC 173-26-211 (4) and (5)). This system classifies the City's shorelines into four distinct environments (Natural, Aquatic, Urban Conservancy, and Shoreline Residential) which provide the framework for implementing shoreline policies and regulatory measures.

#### A. PURPOSE

This system is designed to encourage uses in each environment which enhance the character of that environment. At the same time, the City will place reasonable standards and restrictions on development so that such development does not disrupt or destroy the character of the environment.

The basic intent of this system is to utilize performance standards which regulate use activities in accordance with goals and general development policies previously developed as part of the Master Program. Thus, the particular uses of type of developments placed in each environment must be designed and located to that there are no effects detrimental to achieving the objectives of the environment and other Master Program development criteria.

This approach provides an "umbrella" environment class over present and future City land use planning and zoning of the shorelines. Since every area of the City as well as the remainder of the State is endowed with different resources, has different intensity of development and attaches different social values to these physical and economic characteristics, the environment designations should not be regarded as a substitute for on-going City and municipal planning and land use regulations.

#### B. GENERAL DESIGNATION CRITERIA

The determination as to which designation should be given any specific area in the City should be made in the following manner:

1. The resources of the shoreline areas should be analyzed for their opportunities and limitations for different uses. Completion of the comprehensive inventory of resources is a prerequisite to

identifying resource attributes which determine these opportunities and limitations. (See Appendix C, Shoreline Inventory and Characterization Report, September 2010.)

2. Each of the plan elements should be analyzed for their effect on the various resources throughout the City's shoreline areas. Since shorelines are only a part of the system of resources within the City of Mountlake Terrace's jurisdiction, it is particularly important that planning for shorelines be considered an integral part of area wide planning.
3. Public desires should be considered through the citizen involvement process to determine which environment designations reflect local values and aspirations for the development of different shoreline areas within Mountlake Terrace.
4. All areas within shoreline jurisdiction that are not mapped or designated shall be assigned an Urban Conservancy designation until the shoreline can be redesignated through a Master Program amendment.

### **C. SHORELINE MAP**

The location and boundaries of each environment designation is shown on the Shoreline Environment Designation Map (see Appendix A).

### **D. DESIGNATION ELEMENTS**

The management objectives and features which characterize each of the environments are given in the following sections to provide a basis for environment designation and management within Mountlake Terrace. Each environment category includes several elements including:

1. Purpose - describes the basic function and purpose of the particular environment category.
2. Criteria - defines the characteristics that apply to the environment designation.
3. Management policies - outlines the policies with which to regulate use and development in the subject environment, consistent with the character of each environment.

## **3.2 NATURAL ENVIRONMENT**

### **A. PURPOSE**

The purpose of the "natural" environment is to protect those shoreline areas that are relatively free of human influence or that include intact or minimally degraded shoreline functions intolerant of human use. These systems require that only very low intensity uses be allowed in order to maintain the ecological functions and ecosystem-wide processes. Consistent with the policies of the designation, the City of Mountlake Terrace should include planning for restoration of degraded shorelines within this environment.

## **B. DESIGNATION CRITERIA**

A “natural” environment designation applies to shoreline areas if any of the following characteristics apply:

1. The shoreline is ecologically intact and therefore currently performing an important, irreplaceable function or ecosystem-wide process that would be damaged by human activity;
2. The shoreline is considered to represent ecosystems and geologic types that are of particular scientific and educational interest; or
3. The shoreline is unable to support new development or uses without significant adverse impacts to ecological functions or risk to human safety.

Ecologically intact shorelines, as used here, means those shoreline areas that retain the majority of their natural shoreline functions, as evidenced by the shoreline configuration and the presence of native vegetation. Generally, but not necessarily, ecologically intact shorelines are free of shoreline structural modifications, structures, and intensive human uses. This designation applies to Ballinger Island.

## **C. MANAGEMENT POLICIES**

1. Prohibit any use that would substantially degrade the ecological functions or natural character of the Natural Environment.
2. New development or significant vegetation removal that would reduce the capability of vegetation to perform normal ecological functions should not be allowed.
3. Apply severe restrictions to the intensity and type of uses allowed in order to maintain the natural systems and the resources of the Natural Environment in their natural state.
4. Permit limited access to the Natural Environment for scientific, historical or education purposes as long as there is no significant ecological impact.
5. Prohibit uses or activities requiring permanent installations which would permanently deplete or consume the physical and biological resources found in the Natural Environment.
6. New uses other than those referenced in Policy #4 should not be allowed in the Natural Environment.
7. Restoration opportunities should be encouraged in the Natural Environment.

## **3.3 AQUATIC ENVIRONMENT**

### **A. PURPOSE**

The purpose of the “aquatic” environment is to protect, restore and manage the unique characteristics and resources of the areas waterward of the ordinary high-water mark.

## **B. DESIGNATION CRITERIA**

An “aquatic” environment designation applies to lands waterward of the ordinary high-water mark. The Aquatic shoreline environment designation includes the water surface together with the underlying lands and the water column. This designation applies to that portion of Lake Ballinger within the city limits of Mountlake Terrace.

## **C. MANAGEMENT POLICIES**

1. Allow new over-water structures only for water-dependent uses, public access, or ecological restoration.
2. The size of new over-water structures should be limited to the minimum necessary to support the structure’s intended use.
3. In order to reduce the impacts of shoreline development and increase effective use of water resources, over-water facilities should be encouraged to serve multiple functions.
4. All developments and uses on navigable waters or their beds should be located and designed to minimize interference with surface navigation.
5. All developments and uses should be located and designed to consider impacts to public views, and to allow for the safe, unobstructed passage of fish and wildlife, particularly those species dependent on migration.
6. Uses that adversely impact the ecological functions of critical freshwater habitats should not be allowed except where necessary to achieve the objectives of RCW 90.58.020, and then only when their impacts are mitigated according to the sequence described in WAC 173-26-201 (2)(e) as necessary to assure no net loss of ecological functions.
7. Shoreline uses and modifications should be designed and managed to prevent degradation of water quality and alteration of natural hydrographic conditions.
8. Ensure that piers, docks, and boat ramps are compatible with the shoreline area where they are located and are designed and maintained to minimize adverse impacts to the environment.
9. Dredging and dredge material disposal should be limited to the minimum amount necessary. Dredging operations should minimize impacts to other shoreline uses and functions.
10. Restoration opportunities associated with project impacts should be encouraged in the aquatic environment.

### **3.4 URBAN CONSERVANCY ENVIRONMENT**

#### **A. PURPOSE**

The purpose of the “urban conservancy” environment is to protect and restore ecological functions or open space, flood plain and other sensitive lands where they exist in urban and developed settings, while allowing a variety of compatible uses. This designation applies to the north and east shorelines of Lake Ballinger.

#### **B. DESIGNATION CRITERIA**

An “urban conservancy” environment designation applies to shoreline areas appropriate and planned for development that is compatible with maintaining or restoring the ecological functions of the area, that are not generally suitable for water-dependent uses and that lie in incorporated municipalities or urban growth areas if any of the following characteristics apply:

1. They are suitable for water-related or water-enjoyment uses;
2. They are open space, flood plain or other sensitive areas that should not be more intensively developed;
3. They have potential for ecological restoration;
4. They retain important ecological functions, even though partially developed; or
5. They have the potential for development that is compatible with ecological restoration.

#### **C. MANAGEMENT POLICIES**

1. Give preference to those uses which do not permanently deplete the physical and biological resources of the Urban Conservancy Environment.
2. Give priority to activities and uses of a nonpermanent nature which do not substantially degrade the existing character of the Urban Conservancy Environment.
3. Encourage outdoor recreation activities to be the predominant uses in the Urban Conservancy Environment.
4. Maintain the Urban Conservancy Environment by encouraging recreational activities which will not be detrimental to the shoreline character or the forces which created and maintain the shoreline area.
5. Restrict new development to those which are generally compatible with the natural and biological limitations of the land and water and will not require extensive alteration of the land-water interface.

6. Prohibit development which would be hazardous to public health and safety, or which significantly interferes with natural processes.
7. Allow beach enrichment projects when it can be shown that other portions of the shoreline will not be adversely affected.
8. Discourage development which would permanently strip the shoreline of vegetative cover or cause substantial landslide, erosion, sedimentation or impairment of fish and aquatic life.
9. Prohibit the construction of flood control works or streambank stabilization projects that would contribute to destructive streamway channelization or substantial modification of existing shoreline character except for streamway rehabilitation projects.
10. Encourage streamway rehabilitation projects which will restore or enhance the natural streamway character.
11. Uses that preserve the natural character of the area or promote preservation of open space, floodplain or sensitive lands either directly or over the long term should be the primary allowed uses. Uses that result in restoration of ecological functions should be allowed if the use is otherwise compatible with the purpose of the environment and the setting.
12. Standards should be established for shoreline stabilization measures, vegetation conservation, water quality and shoreline modifications within the Urban Conservancy designation. These standards shall ensure that new development does not result in a net loss of shoreline ecological functions or further degrade other shoreline values.
13. Public access and public recreation objectives should be implemented whenever feasible and significant ecological impacts can be mitigated.
14. Water-oriented uses should be given priority over non-water-oriented uses.
15. Require use of low impact development techniques for any development occurring within the Urban Conservancy environment consistent with City codes, including Chapter 16.20 MTMC.

### **3.5 SHORELINE RESIDENTIAL ENVIRONMENT**

#### **A. PURPOSE**

The purpose of the “shoreline residential” environment is to accommodate residential development and appurtenant structures that are consistent with this shoreline Master Program. An additional purpose is to provide appropriate public access and recreational uses.

## **B. DESIGNATION CRITERIA**

A “shoreline residential” environment designation applies to shoreline areas that are predominantly single-family or multifamily residential development or are planned and platted for residential development. This applies to existing residential properties on the northwest side of Lake Ballinger.

## **C. MANAGEMENT POLICIES**

1. Maintain and enhance the residential character of the Shoreline Residential Environment by carefully controlling the type, location, scale and timing of new shoreline development.
2. Restrict the Shoreline Residential Environment to low-intensity residential and recreational uses.
3. Provide incentives and actively promote aesthetic considerations in Shoreline Residential development by means of sign control regulations, architectural design standards, landscaping requirements and other such means.
4. Allow beach enrichment projects only when it can be shown that other portions of the shoreline will not be adversely affected.
5. Multi-lot residential and recreational developments should provide public access and joint use for community recreational facilities when consistent with statutory and constitutional limitations on development exactions.
6. Any new development or redevelopment should utilize low impact development techniques where feasible and appropriate.
7. Standards for density or minimum frontage width, setbacks, lot coverage limitations, buffers, shoreline stabilization, vegetation conservation, critical area protection and water quality shall be set to assure no net loss of shoreline ecological functions, taking into account the environmental limitations and sensitivity of the shoreline area, the level of infrastructure and services available, and other comprehensive planning considerations.
8. Access, utilities and public services should be available and adequate to serve existing needs and/or planned future development.
9. Limited non-residential uses, such as parks, day cares, home occupation businesses may be allowed, provided they are consistent with the residential character.
10. Development should be located, sited, designed and maintained to protect, enhance and be compatible with the shoreline environment.
11. Private property owners should be encouraged to preserve and enhance native shoreline vegetation and use environmentally friendly landscaping practices, through incentives, information and other assistance.

12. Water-oriented recreational uses should be allowed.
13. Public access and public recreation objectives should be implemented if feasible and wherever any significant ecological impacts, such as importation of invasive species to Lake Ballinger, can be mitigated.

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## **CHAPTER 4**

### **GENERAL SHORELINE POLICIES AND REGULATIONS**

The provisions of this chapter shall be applied either generally to all shoreline areas or to shoreline areas that meet the specified criteria of the provision without regard to environment designation.

#### **4.1. ARCHAEOLOGICAL AND HISTORIC RESOURCES**

Archaeological areas, ancient villages, military forts, old settlers' homes, ghost towns, and trails were often located on shorelines because of the proximity of food and resources and because water provided an important means of transportation. These sites are nonrenewable resources and many are in danger of being lost through present day changes in land use and urbanization. Because of their rarity and the educational link they provide to our past, these locations should be preserved.

The following policies and regulations apply to archaeological and historic resources that are recorded at the State Historic Preservation Office and/or by the City of Mountlake Terrace, or which are inadvertently uncovered. Archaeological sites are subject to Chapter 27.44 RCW (Indian graves and records) and Chapter 27.53 RCW (Archaeological sites and records). Developments or uses that may impact such sites shall comply with Chapter 25-48 WAC and the provisions of this chapter.

#### **A. POLICIES**

1. Consult with professional archaeologists, Washington State Department of Archaeology and Historic Preservation (DAHP), and affected Indian tribes to identify areas containing potentially valuable archaeological data, and to establish procedures for salvaging the data.
2. Preserve wherever feasible, sites with high value for scientific study and public observations.
3. Due to the limited and irreplaceable nature of archaeological and historic resources, prevent the destruction of or damage to any site having historic, cultural, scientific, or educational value as identified by the appropriate authorities, including affected Indian tribes and DAHP.
4. Attach a special condition to shoreline permits in areas documented to contain archaeological resources providing for site inspection or evaluation by a professional archaeologist in coordination with affected Indian tribes to ensure that possible archaeological data are properly salvaged.
5. Ensure that all applicable provisions of the National Historic Preservation Act of 1966 and the State Historic Preservation Act (Chapter 43.51 RCW) are complied with.

#### **B. REGULATIONS**

1. All shoreline permits shall contain a special provision requiring permittees to notify the City of Mountlake Terrace if any possible archaeological data are uncovered during excavation or development.

2. All permits issued for development in areas known to be archaeologically significant shall provide for site inspection by a qualified archaeologist, in coordination with affected Indian tribes, prior to initiation of any development activity.
3. All development proposed for location adjacent to historical sites, which are registered on the state or national historic register, shall be located and designed so as to be complimentary to the historic site. Development, which degrades or destroys the historic character of such sites, shall not be permitted.
4. Developers and property owners shall immediately stop work and notify the City of Mountlake Terrace, DAHP (State Office of Archaeology and Historic Preservation), and affected Indian tribes if archaeological resources are uncovered during excavation.

## **4.2 CRITICAL AREAS**

Critical areas include the following areas and ecosystems: wetlands, areas with a critical recharging effect on aquifers used for potable water, geologically hazardous areas, fish and wildlife habitat conservation areas, and frequently flooded areas within the shoreline jurisdiction.

### **A. POLICIES**

1. Provide sufficient protection to critical areas located in the shoreline jurisdiction to ensure no net loss of ecological functions necessary to sustain shoreline natural resources.
2. Critical areas in the shoreline jurisdiction shall be consistent with the comprehensive plan, local and interlocal watershed plans, development regulations, and state, tribal, and federal programs to protect existing ecological functions and habitat.

### **B. REGULATIONS**

1. Critical areas in the City's shoreline jurisdiction are regulated in accordance with the provisions of the City of Mountlake Terrace Critical Areas Ordinance, as codified in Chapter 16.15 MTMC per Ord. 2731, 2018. Chapter 16.15 MTMC is herein adopted by reference, except for the clarifications and modifications in subsection B.2 of this subsection.
2. The following provisions of the City of Mountlake Terrace Critical Areas Ordinance shall not apply to critical areas within shoreline jurisdiction:
  - a. The variance provisions in the Mountlake Terrace Critical Areas Ordinance shall not apply in shoreline jurisdiction. Variances shall require a shoreline variance based on the variance criteria listed in this Master Program and WAC 173-27-170.
  - b. The reasonable use exception provisions in the Mountlake Terrace Critical Areas Ordinance shall not apply in shoreline jurisdiction. Exceptions within shoreline jurisdiction shall require a shoreline variance based on the variance criteria listed in this Master Program and WAC 173-27-170.

- c. The exempt activities provisions of the Mountlake Terrace Critical Areas Ordinance shall not apply to Type S waters (shorelines of the state) or their buffers (shoreline buffers). Activities and alterations to shorelines of the state and their buffers shall be subject to the provisions of this Master Program.
  - d. Wetland buffer widths listed in the Mountlake Terrace Critical Areas Ordinance, shall not apply.
  - e. The Type S waters stream buffer widths, listed in the Mountlake Terrace Critical Areas Ordinance, shall not apply.
  - f. Critical areas and buffers in the Mountlake Terrace Critical Areas Ordinance do not extend shoreline jurisdiction beyond the limits specified in this Master Program.
  - g. Future amendments to the Mountlake Terrace Critical Areas Ordinance require Department of Ecology approval of an amendment to this Master Program to incorporate updated language.
  - h. If provisions of the Mountlake Terrace Critical Areas Ordinance conflict with provisions of this Master Program, the provisions most protective of the ecological resource shall apply, as determined by the Administrator.
  - i. If there are provisions of the Mountlake Terrace Critical Areas Ordinance that are not consistent with the Shoreline Management Act, Chapter 90.58 RCW, and supporting Washington Administrative Code chapters, those provisions shall not apply.
3. Wetland buffer widths in shoreline jurisdiction.
- a. Wetland buffer width. The use of the standard buffer widths requires the implementation of the measures in Table 4-1, where applicable, to minimize the impacts of the adjacent land uses. If an applicant chooses not to apply the mitigation measures in Table 4-2, then a 33% increase in the width of all buffers is required.

**Table 4-1. Wetland buffer widths\* (in feet) (Ecology 2018).**

Category	<i>Without minimization measures</i>			<i>With minimization measures and habitat corridor</i>		
	Habitat Score			Habitat Score		
	<i>Low (3-5)</i>	<i>Moderate (6-7)</i>	<i>High (8)</i>	<i>Low (3-5)</i>	<i>Moderate (6-7)</i>	<i>High (8)</i>
1	100	150	300	75	110	225
2	100	150	300	75	110	225
3	80	150	300	60	110	225
4	50			40		

\*An additional 15-foot building setback applies from Category 1-3 buffers.

- b. Wetland buffer minimization measures. Wetland buffer impact minimization measures can be used in allowing buffer averaging for development. Measures to minimize impacts on buffers shown in Table 4-2, below, allow buffer averaging to no less than 75% of the original buffer requirement (Ecology 2016). A request for buffer averaging requires a wetland report by a qualified professional detailing no net loss of wetland functions. In addition to applying all minimization measures, if a conservation easement corridor connects WDFW priority habitats within a wetland buffer with moderate habitat scores, a buffer reduction to 110 feet is allowed (Ecology 2018).

**Table 4-2. Wetland buffer impact minimization measures.**

Disturbance	Required Measures to Minimize Impacts
Lights	<ul style="list-style-type: none"> <li>• Direct lights away from wetland</li> </ul>
Noise	<ul style="list-style-type: none"> <li>• Locate activity that generates noise away from wetland</li> <li>• If warranted, enhance existing buffer with native vegetation plantings adjacent to noise source</li> <li>• For activities that generate relatively continuous, potentially disruptive noise, such as certain heavy industry or mining, establish an additional 10' heavily vegetated buffer strip immediately adjacent to the outer wetland buffer</li> </ul>
Toxic runoff	<ul style="list-style-type: none"> <li>• Route all new, untreated runoff away from wetland while ensuring wetland is not dewatered</li> <li>• Establish covenants limiting use of pesticides within 150 feet of wetland</li> <li>• Apply integrated pest management</li> </ul>
Stormwater runoff	<ul style="list-style-type: none"> <li>• Retrofit stormwater detention and treatment for roads and existing adjacent development</li> <li>• Prevent channelized flow from lawns that directly enters the buffer</li> <li>• Use Low Intensity Development (LID) techniques where appropriate (for more information refer to the drainage ordinance and manual)</li> </ul>
Change in water regime	<ul style="list-style-type: none"> <li>• Infiltrate or treat, detain, and disperse into buffer new runoff from impervious surfaces and new lawns</li> </ul>
Pets and human disturbance	<ul style="list-style-type: none"> <li>• Use privacy fencing OR plant dense vegetation to delineate buffer edge and to discourage disturbance using vegetation appropriate for the ecoregion</li> </ul>

Disturbance	Required Measures to Minimize Impacts
	<ul style="list-style-type: none"> <li>Place wetland and its buffer in a separate tract or protect with a conservation easement</li> </ul>
Dust	<ul style="list-style-type: none"> <li>Use best management practices to control dust</li> </ul>

4. Stream buffer widths.

- a. Required buffer widths in shoreline jurisdiction shall reflect the sensitivity of the particular stream and the risks associated with development. The type and intensity of human activity proposed to be conducted on or near the stream should also be considered.
- b. Buffers shall be measured from the ordinary high water mark. The buffer widths in Table 4.3 are minimums and may be increased by the Administrator in response to site-specific conditions and based on the information submitted to characterize the functions and values of the stream.

**Table 4.3 Stream Buffer widths.**

Water Type	Description	Minimum Buffer Width	Additional Buffer for Threatened or Endangered Species	Building Setback
S	Shoreline of the state (Per RCW <a href="#">90.58.030</a> )	150 feet	75 feet	15 feet
F	Defined channel and periodically inundated areas	100 feet	50 feet	15 feet
Np	Perennial	50 feet	0 feet (no anadromous fish)	15 feet
Ns	Seasonal	Determined based on review of technical information	0 feet (no anadromous fish)	15 feet
–	Intermittent streams			

### 4.3 FLOOD HAZARD REDUCTION

The following provisions apply to actions taken to reduce flood damage or hazard and to uses, development, and shoreline modifications that may increase flood hazards. Flood hazard reduction measures may consist of nonstructural measures, such as setbacks, land use controls, wetland

restoration, dike removal, use relocation, biotechnical measures, and stormwater management programs, and of structural measures, such as weirs, dikes, levees, revetments, floodwalls, channel realignment, and elevation of structures consistent with the Federal Emergency Management Agency (FEMA) National Flood Insurance Program.

**A. POLICIES**

- A. Flood hazard reduction measures should be consistent with applicable provisions of City stormwater management, floodplain, and critical areas regulations, as well as the National Flood Insurance Program.
2. Structural flood control devices should be allowed only after it is demonstrated that nonstructural solutions are not feasible to reduce the hazard.
3. Participate in watershed-wide programs to reduce flood hazards and improve the shoreline ecology.
4. Discourage new development in shoreline areas that are reasonably likely to be harmed by flood conditions, or which would create or intensify flood hazard impacts on other properties.
5. Where feasible, preference should be given to nonstructural flood hazard reduction measures over structural measures.
6. New structural flood protection measures should only be allowed when necessary to protect existing development or to facilitate restoration projects.
7. Ensure that flood hazard reduction measures do not result in a net loss of ecological functions.

**B. REGULATIONS**

1. Development and redevelopment shall be located and designed to prevent the need for structural flood hazard reduction measures.
2. Nonstructural flood reduction measures shall be given preference over structural measures.
3. Flood control works shall be permitted when it is demonstrated by engineering and scientific evaluations that:
  - a. They are necessary to protect health/safety and or existing development;
  - b. Non-structural flood hazard reduction measures are infeasible; and
  - c. The flood control work will not result in a net loss of ecological function in the shoreline area.
4. New structural flood control works shall be placed landward of associated wetlands, and designated habitat conservation areas, except for works that improve ecological functions, such as wetland restoration.

5. Development within the shoreline environment shall meet the standards and provisions for protection of frequently flooded areas as provided to areas of special flood hazard in the current edition of the International Residential Code and International Building Code, and MTMC Title 15 and Title 16. In addition to any other standards, a minimum two foot elevation above base flood is required for all structures, and at least three feet for critical facilities above base flood.
6. All development in floodplains and flood protection measures shall be consistent with the applicable requirements of the National Flood Insurance Program, and applicable building codes regarding flood-proof construction.
7. Require that the removal of gravel for flood management purposes be consistent with an adopted flood hazard reduction plan and with this chapter and allowed only after a biological and geomorphological study shows that extraction has a long-term benefit to flood hazard reduction, does not result in a net loss of ecological functions, and is part of a comprehensive flood management solution.
8. Streambank vegetation shall be preserved to the maximum extent feasible consistent with safe construction requirements.
9. Cut-and-fill slopes and backfill areas shall be revegetated with natural grasses, shrubs and/or trees in keeping with existing river bank vegetation.
10. Require that new structural public flood hazard reduction measures, such as weirs, dikes and levees, dedicate and improve public access pathways unless public access improvements would cause unavoidable health or safety hazards to the public, inherent and unavoidable security problems, unacceptable and unmitigable significant ecological impacts, unavoidable conflict with the proposed use, or a cost that is disproportionate and unreasonable to the total long-term cost of the development.
11. The following uses or activities may be appropriate and/or necessary within the channel migration zone or floodway, subject to the regulations of this SMP:
  - a. Actions that protect or restore the ecosystem-wide processes or ecological functions.
  - b. Bridges, utility lines, and other public utility and transportation structures where no other feasible alternative exists or the alternative would result in unreasonable and disproportionate cost. Where such structures are allowed, mitigation shall address impacted functions and processes in the affected section of watershed or drift cell.
  - c. Repair and maintenance of an existing legal use, provided that such actions do not cause significant ecological impacts or increase flood hazards to other uses.
  - d. Development with a primary purpose of protecting or restoring ecological functions and ecosystem-wide processes.

- e. Modifications or additions to an existing nonagricultural legal use, provided that channel migration is not further limited and that the new development includes appropriate protection of ecological functions.
- f. Existing structures that prevent active channel movement and flooding.
- g. Measures to reduce shoreline erosion, provided that it is demonstrated that the erosion rate exceeds that which would normally occur in a natural condition, that the measure does not interfere with fluvial hydrological and geomorphological processes normally acting in natural conditions, and that the measure includes appropriate mitigation of impacts to ecological functions associated with the stream.

#### **4.4 PUBLIC ACCESS AND VIEWS**

Public access includes the ability of the general public to reach, touch, and enjoy the water's edge, to travel on the waters of the state, and to view the water and the shoreline from adjacent locations.

##### **A. POLICIES**

1. To the greatest extent feasible consistent with the overall best interest of the state and the people generally, protect the public's opportunity to enjoy the physical and aesthetic qualities of shorelines of the state, including views of the water.
2. Physical access for swimming and non-motorized boating, passive recreation (such as interpretive trails), and habitat enhancement should be important objectives for the management of shoreline public access sites.
3. Public access provisions should be required for all shoreline development and uses, except for a single-family residence or residential projects containing less than four (4) dwelling units.
4. Regulate the design, construction, and operation of permitted uses in the shoreline jurisdiction to minimize, insofar as practical, interference with the public's use of the water.
5. Assure that public access improvements do not result in a net loss of shoreline ecological functions.
6. Public access facilities should be constructed of environmentally friendly materials, use low impact development techniques, and support healthy natural processes, when feasible.

##### **B. REGULATIONS**

1. Except where exempted below, the dedication and improvement of public access shall be required as a condition of Shoreline Substantial Development Permits or Conditional Use Permits for water-enjoyment, water-related, and non-water-dependent uses, where any of the following conditions are present:
  - a. The use or modification will create increased demand for public access to the shoreline.

- b. The use or modification will interfere with an existing public access way.
  - c. A use which is not a priority shoreline use under the Shoreline Management Act will locate on a shoreline of the state.
  - d. A use or modification located within shoreline jurisdiction will interfere with a public use of lands or waters subject to the public trust doctrine.
  - e. New multifamily residential development.
  - f. A subdivision of land into more than four parcels.
  - g. New boating facilities.
2. Shoreline development by public entities shall include public access measures as part of each development project, unless such access is shown to be incompatible due to reasons of safety, security, or impact to the shoreline environment.
3. Public access shall not be required if it is demonstrated to be infeasible where:
- a. Unavoidable health or safety hazards to the public exist which cannot be prevented by any practical means.
  - b. Inherent security requirements of the use cannot be satisfied through the application of alternative design features or other solutions.
  - c. The cost of providing the access, easement, or an alternative amenity is unreasonably disproportionate to the total long-term cost of the proposed development.
  - d. Unacceptable environmental harm will result from the public access which cannot be mitigated.
  - e. Significant undue and unavoidable conflict between any access provisions and the proposed use/modification and adjacent uses would occur and cannot be mitigated.
  - f. Statutory or constitutional requirements would prohibit the mandatory dedication of access without just compensation or compliance with statutory criteria.
4. In order to meet any of the conditions in subsection 3 of this section, the applicant must first demonstrate and the city determine in its findings that all reasonable alternatives have been exhausted, including but not limited to:
- a. Regulating access by such means as maintaining a gate and/or limiting hours of use.
  - b. Designing separation of uses and activities (e.g., fences, terracing, use of one-way glazings, hedges, landscaping, etc.).

- c. Developing provisions for off-site access such as at a street end, vista, or trail system.
5. Exceptions. The following uses, developments, modifications, and activities are exempt from providing public access under this section:
- a. The construction, repair, remodeling and use of one detached single-family dwelling unit, as well as the construction, remodeling, repair, and use of bulkheads, docks and other uses, modification and activities incidental to the use of the subject property as a detached single-family residence.
  - b. All shoreline uses, modifications, and activities in conservancy environments, or environmentally sensitive areas where the city determines that access would create distinct and unavoidable hazards to human safety or be contrary to city policies regarding the protection of unique and fragile environments.
6. Public Use Facilities.
- a. In addition to the public access areas required by subsection 1 of this section, the applicant may propose and/or the City may require that benches, picnic tables, a public access pier or boardwalk, or other public use facilities be constructed on the subject property.
  - b. If public use facilities are required or proposed, the city will determine the size, location and other regulations (design considerations) on a case-by-case basis.
7. Timing. The public access required by this section must be completed and available at the time of occupancy or completion of work; provided, however, that the city may on a case-by-case basis defer the physical availability of public access in the following cases:
- a. If the City determines that the size, location, or topography of the subject property makes it infeasible to provide public access without first obtaining public access on an adjacent property. If such a determination is made, public access shall be provided on the subject property at such time as public access on an adjacent property can be obtained.
  - b. If pre-existing legal or nonconforming improvements on the subject property physically preclude the provisions of public waterfront access within a reasonable period of time.
8. Easements recorded. In each case where public access is required, whether it is physically available at the end of development or deferred until a later date, all owners of the subject property must record a public easement, in a form approved by the city attorney, establishing the right of the public to access, use, and traverse that portion of the subject property.
9. Signs. The city shall require the posting of signs, obtained from the City at the City's cost, designating public access. The planning manager or his/her designee is authorized to establish

reasonable rules and regulations governing the public's use of public access and use areas under this chapter. Where appropriate, these rules and regulations shall be included within the document recorded under subsection 8 of this section.

10. Shoreline uses, modifications and activities shall be designed and operated to avoid blocking, reducing or adversely interfering with the public's existing physical and visual access to the water and shorelines.
11. Public access sites shall include provisions for disabled and physically impaired persons, where feasible.
12. Public access easements and permit conditions shall be recorded on the deed of title and/or on the face of a plat or short plat as a condition running contemporaneous with the authorized land use, at a minimum. Said recording with the county auditor's office shall occur at the time of permit approval (RCW 58.17.110).
13. The minimum width of public access easements shall be 25 feet, unless the Administrator determines that undue hardship would result. In such cases, easement width may be reduced only to the minimum extent necessary, as determined by the Administrator, to relieve the hardship, provided the larger easement is not needed for emergency access.
14. Future actions by the applicant, successors in interest, or other parties shall not diminish the usefulness or value of the public access provided.

#### **4.5 SHORELINE VEGETATION CONSERVATION**

Vegetation conservation includes activities to protect and restore vegetation along or near freshwater shorelines that contribute to the ecological functions of shoreline areas. Vegetation conservation provisions include the prevention or restriction of plant clearing and earth grading, vegetation restoration, and the control of invasive weeds and nonnative species.

Unless otherwise stated, vegetation conservation does not include those activities covered under the Washington State Forest Practices Act, except for conversion to other uses and those other forest practices activities over which the City of Mountlake Terrace has authority. Vegetation conservation provisions apply even to those shoreline uses and developments that are exempt from the requirement to obtain a permit. Vegetation conservation standards do not apply retroactively to existing uses and structures.

Where new developments and/or uses are proposed, native shoreline vegetation should be conserved to maintain shoreline ecological functions and/or processes and mitigate the direct, indirect and/or cumulative impacts of shoreline development, where feasible.

Important functions of shoreline vegetation include, but are not limited to:

- Providing shade necessary to maintain water temperatures required by salmonids, forage fish, and other aquatic biota.
- Providing organic inputs critical for aquatic life.
- Providing food in the form of various insects and other benthic macroinvertebrates.
- Stabilizing banks and minimizing erosion.
- Reducing fine sediment input into the aquatic environment through stormwater best management practices.
- Filtering and vegetative uptake of nutrients and pollutants from ground water and surface runoff.
- Providing a source of large woody debris into the aquatic system.
- Regulation of microclimate in the stream-riparian corridors.
- Providing habitat for wildlife, including connectivity for travel and migration corridors.

**A. POLICIES**

1. Native plant communities within shoreline jurisdiction including, but not limited to, wetlands, lakes, and streams should be protected and maintained to minimize damage to the ecology and environment of the shoreline area.
2. Cleared and disturbed sites remaining after completion of construction should be promptly replanted with native vegetation or with other species as approved by the City.
3. Conserve existing native vegetation to maintain and enhance water and sediment storage, removal of excess nutrients and toxic compounds, recruitment of large woody debris, bank stability, shade, and recruitment of organic matter.
4. Emphasize retention of native shoreline vegetation when reviewing plans for future development and encourage replanting and enhancement of shoreline vegetation when absent to reestablish and upgrade impaired ecological shoreline processes and functions.
5. Use soil bioengineering techniques when restoring degraded shorelines, wherever feasible, to minimize the processes of erosion, sedimentation, and flooding.
6. The City should provide information to the public about environmentally appropriate vegetation management, landscaping for shoreline properties and alternatives to the use of pesticides and herbicides which impact water quality and aquatic habitat.
7. Property owners should use the following Best Management Practices (BMPs) when maintaining residential landscapes:
  - a. Avoid use of herbicides, fertilizers, insecticides, and fungicides along drainage channels, and shores of Lake Ballinger, as well as in the water. If used, only organic fertilizer, weed and pest control is permitted within the shoreline jurisdiction.
  - b. Limit the amount of lawn and garden watering so that there is no surface runoff.

- c. Dispose of grass clippings, leaves, or twigs properly; do not sweep these materials into the street, into a body of water, or near a storm drain.
8. Aquatic weed management should involve usage of native plant materials wherever possible in soil bioengineering applications and habitat restoration activities. Where active removal or destruction of aquatic vegetation is necessary, it should be done only to the extent necessary to allow water-dependent activities to continue. Removal or modification of aquatic vegetation should be conducted in a manner that minimizes adverse impacts to native plant communities, and should include appropriate handling or disposal of weed materials and attached sediments.
9. Monitor and control aquatic invasive species in Lake Ballinger.

**B. REGULATIONS**

1. Alteration of native shoreline vegetation shall only be allowed as set forth below:
  - a. Landscaping or maintenance associated with an existing legal use or new permitted shoreline use or development. The use of native plant species shall be encouraged.
  - b. Removal of noxious weeds as listed by the state in Chapter 16-750 WAC, provided such activity shall be conducted in a manner consistent with best management practices and native vegetation is promptly reestablish in the disturbed area.
  - c. Modification of vegetation in association with a legal, nonconforming use provided that said modification is conducted in a manner consistent with this Master Program and results in no net loss to ecological functions or critical fish and wildlife conservation areas.
  - d. Restoration activities conducted in accordance with an approved plan designed to improve ecological functions and values.
  - e. Selective pruning of trees for safety and adequate view protection. Protection of views should not take precedence over the objectives of this Master Program.
2. The removal or disturbance of existing vegetation and the alteration of topography shall be limited to the minimum necessary to accommodate approved shoreline development.
3. Exposed soils shall be immediately developed or revegetated to prevent erosion.
4. Revegetation must be planted such that complete coverage of exposed soils is attained within one growing season.
5. In all cases where clearing is followed by revegetation, native plants shall be preferred.
6. In all shoreline areas, the removal or disturbance of existing vegetation, land clearing, grading, filling, and alteration of natural drainage features and landforms shall be limited to the minimum necessary for approved shoreline development.

## **4.6 WATER QUALITY, STORMWATER, AND NON-POINT POLLUTION**

Development of the shoreline and surrounding areas affects water quality in several ways. The creation of impervious surfaces increases stormwater runoff volumes, causing higher peak stormwater discharges at higher velocities, which cause scouring and erosion of stream banks. Erosion increases suspended solids concentrations and turbidity in receiving waters. Runoff from impervious surfaces, including roads and parking areas, as well as from grass or landscaped areas, including golf courses, lawns, and gardens, carries oil, grease, yard and garden chemicals, household wastes, sediment, bacteria, heavy metals, excess nutrients, and other pollutants into these waters. Increased nitrogen and phosphorus enrichment results in algal growth that depresses levels of dissolved oxygen in receiving waters. The degradation of water quality adversely impacts wildlife habitat and public health.

Maintaining high water quality standards and restoring degraded systems has been mandated in Chapter 90.58 RCW. The City of Mountlake Terrace regulates stormwater in Chapter 16.20 of the Mountlake Terrace Municipal Code.

### **A. POLICIES**

1. Impacts to water quality and stormwater quantity that would result in a net loss of shoreline ecological functions, or a significant impact to aesthetic qualities, or recreational opportunities, should be prevented.
2. All shoreline uses and activities should be located, designed, constructed, and maintained to mitigate the adverse impacts to water quality.
3. Stormwater impacts should be addressed through the application of all applicable City and State stormwater, including construction stormwater, erosion, and sedimentation, regulations.
4. New impervious surfaces should be limited within the shoreline management area by encouraging the use of pervious pavements and other low impact development technologies.
5. The City should encourage homeowners and property managers to use non-chemical weed and pest control solutions and natural and organic fertilizers if used at all.
6. Ensure that actions that affect stormwater runoff or water quality are consistent with other applicable regulations that address water quality and stormwater quantity, including public health, stormwater, water discharge standards, and plans. This may include recommendations outlined in the 2009 Lake Ballinger/McAleer Creek Watershed Strategic Action Plan.

### **B. REGULATIONS**

1. An erosion and sedimentation control plan shall be submitted with a permit application for activities that involve the removal of vegetation, stockpiling of earth or other materials, or any activity that could result in shoreline erosion or siltation. The plan shall conform to applicable local and state regulations governing stormwater and erosion control and shall utilize Best Management Practices (BMPs) to prevent shoreline erosion and siltation.

2. The bulk storage of oil, fuel, chemicals, or hazardous materials, on either a temporary or permanent basis, shall be prohibited in the shoreline. This does not apply to the incidental storage of such materials for residential use.
3. All shoreline development, both during and after construction, shall minimize impacts related to surface runoff through control, treatment, and release of surface water runoff such that there is no net loss of receiving water quality in the shoreline environment. Control measures include but are not limited to dikes, runoff intercepting ditches, catch basins, settling wet ponds, sedimentation ponds, oil/water separators, filtration systems, grassy swales, planted buffers, and fugitive dust controls.
4. All shoreline development shall comply with Chapter 16.20 MTMC, and implement applicable Low Impact Development techniques to the maximum extent feasible, pursuant to the standards contained in the Department of Ecology Stormwater Manual, and the Puget Sound Action Team Low Impact Development Technical Guidance Manual for Puget Sound or successor.
5. Construction materials that come in continuous, direct contact with surface waters shall not be treated or coated with toxic materials. Untreated wood, precast concrete, plastic or nontoxic alternatives shall be used unless the project proponent demonstrates and the City of Mountlake Terrace building official determines that there is no feasible alternative to toxic treatments that will provide the structural characteristics necessary for the project.

#### 4.7 SHORELINE BULK AND DIMENSIONAL STANDARDS

Bulk and dimensional standards for shoreline development shall be determined by standards of the underlying zoning, as specified in the MTMC, except for those shoreline-specific bulk and dimensional standards summarized in Table 4-4 below. Additional buffer or setback requirements may apply to development within or adjacent to critical areas.

**Table 4-4 Dimensional Standards Table.**

Standard	Shoreline Environment			
	Aquatic	Natural	Shoreline Residential <sup>1</sup>	Urban Conservancy <sup>2</sup>
Maximum Height <sup>3</sup>	N/A	N/A	3 stories, not to exceed 35 feet	35 feet
Shoreline Setback <sup>4</sup>	N/A	N/A	50 feet <sup>5</sup>	100 feet <sup>5</sup>
Maximum Impervious Surface <sup>6</sup>	N/A	N/A	25% of lot area	10% of lot area
Minimum Lot Frontage and Width	N/A	N/A	55 feet	400 feet
Minimum Lot Size <sup>7</sup>	N/A	N/A	8,400 sq. ft.	20 acres

### Notes

1. The underlying zoning is Single Household Residential (RS 8400).
2. The underlying zoning is Recreation and Park District (REC).
3. The height limit shall not apply to television antennas, chimneys, flagpoles, public utilities, and similar appurtenances per Chapter 19.120 MTMC.
4. Measured from OHWM (ordinary high watermark).
5. Other building setbacks apply per the underlying zoning district pursuant to Title 19 MTMC, except setbacks for accessory structures and overwater structures are subject to Chapter 5 of this SMP.
6. Impervious surface as defined in Chapter 16.20 MTMC, stormwater regulations.
7. Square footage applies to portion of lot landward of OHWM.

## **CHAPTER 5**

### **SHORELINE USE AND MODIFICATION POLICIES AND REGULATIONS**

#### **5.1 INTRODUCTION**

This chapter provides policies and regulations applicable to uses or modifications that may be proposed within the shoreline.

##### **5.1.1 USES**

A use generally refers to a type of development or use of shorelines or shoreline resources. A development proposal may contain more than one use or modification, and must comply with the policies and regulations applicable to all portions of the proposal.

The use regulations supplement, but do not duplicate, specific requirements of other city land use regulations. For example, flood proofing considerations are not addressed here since they are effectively covered by both state and city laws. In essence, the use regulations address those shoreline management issues, which are not effectively provided for by existing federal, state, or city regulations and which must be provided for if the adopted goals and policies of this Master Program are to be implemented.

##### **5.1.2 MODIFICATIONS**

A modification is generally related to construction of a physical element. A modification may be undertaken in support of or in preparation for a shoreline use.

##### **5.1.3 SHORELINE USE AND MODIFICATION TABLE**

Table 5-1 indicates whether a use or modification proposed to be located within one of the shoreline environments is prohibited, permitted subject to the regulations specific to the proposed use and pursuant to the permit application procedures and other applicable policies and regulations of this Master Program, or allowed subject to the conditional use permit provisions of this Master Program.

Shoreline use activities not specifically identified and for which policies and regulations have not been developed will be evaluated on a case-by-case basis. Each activity will be required to satisfy the goals and general development policies of the Master Program, the policies of the Shoreline Management Act, and shall be consistent with the management policy and character of the shoreline environment in which they propose to locate.

Policies and regulations specific to shoreline uses are discussed in Section 5.2 of this chapter. Shoreline modifications are discussed in Section 5.3. See Appendix A for location of shoreline environments.

**TABLE 5.1 – SHORELINE USE AND MODIFICATION TABLE**

<b>Shoreline Environments</b>				
	Natural	Aquatic	Urban Conservancy	Shoreline Residential
<b>Use Activity</b>				
Agriculture	X	X	X	X
Aquaculture	X	X	X	X
Boating Facilities	X	C	C	X
Commercial	X	X	C	X
Forest Practices	X	X	X	X
Industrial	X	X	X	X
In-Stream/Lake Structural Uses	X	C	C	X
Mining	X	X	X	X
Recreational Development	X	P	P	P
Residential	X	X	X	P
Transportation & Roads	X	X	C	P
Parking (as primary use)	X	X	X	X
Utilities	X	C	P	P
<b>Modification</b>				
Dredging	X	C	C	X
Landfill, Fill, and Excavation	X	C	C	C
Signs	X	X <sup>1</sup>	P	P
Piers, Docks, and Floats	X	P	P	P
Soft Shoreline Stabilization	X	P	P	P
Hard Shoreline Stabilization	X	C	C	C

**Key:** P = Permitted

C = Conditional

X = Prohibited

**Footnotes**

- 1 Signs are prohibited in the Aquatic Environment except for those signs specifically exempted by this Master Program. See Section 5.2.7, Signs.

## **5.2 USE POLICIES AND REGULATIONS**

As required by the Shoreline Management Act, this Master Program sets forth policies and regulations governing specific categories of uses and activities typically found in shoreline areas. The policies and regulations, which provide basic criteria for evaluating shoreline permit applications, are used to implement the broader goals, policies and intent of the Shoreline Management Act and this Program.

### **5.2.1 PROHIBITED USES**

The following uses are prohibited in all shoreline environments:

- A. Agriculture
- B. Aquaculture
- C. Forest Practices
- D. Industrial Uses
- E. Mining
- F. Parking (as a primary use)

### **5.2.2 BOATING FACILITIES**

Boating facilities include public or private dry storage and wet-moorage facilities and structures; boat launch ramps, covered moorage, boathouses, mooring buoys, and marine travel lifts. Boating facilities as defined in this Master Program do not apply to residential moorage facilities serving four (4) or fewer single-family residences.

Accessory uses found in boating facilities may include fuel docks and storage, boating equipment sales and rental, wash-down facilities, fish cleaning stations, repair services, public launching, bait and tackle shops, potable water, waste disposal, administration, parking, groceries, and dry goods.

#### **A. POLICIES**

1. Boating facilities should be located, designed, and operated to provide maximum feasible protection and restoration of ecological processes and functions and all forms of aquatic, littoral, or terrestrial life.
2. To the extent possible, boating facilities should be located in areas of low biological productivity.
3. Boating facilities should be located and designed so their structures and operations will be aesthetically compatible with the area visually affected and will not unreasonably impair shoreline views. However, the need to protect and restore functions and to provide for water-dependent uses carries higher priority than the protection of views.
4. Boating facilities should provide physical and visual public shoreline access and provide for multiple use, including water-related use, to the extent compatible with shoreline ecological functions and processes and adjacent shoreline use.

5. Accessory uses to boating facilities should be limited to water-oriented uses, or uses that provide physical or visual shoreline access for a substantial number of the general public.
6. Location and design of boating facilities should not unduly obstruct navigable waters and should avoid adverse effects to recreation opportunities such as fishing, pleasure boating, swimming, beach walking, picnicking, and shoreline viewing.

**B. REGULATIONS**

1. Boat launch ramps may be permitted as a conditional use in the Urban Conservancy shoreline environment. All other boating facility uses are prohibited.
2. Extended moorage and live-aboard vessels are prohibited on Lake Ballinger.
3. Boating facilities shall be located only at sites with suitable environmental conditions, shoreline configuration, access, and neighboring uses.
4. Boating facilities shall be located and designed to ensure no net loss of shoreline ecological functions. Impacts for boat launches shall be mitigated according to mitigation sequencing as described in Critical Areas, Section 4.1.2 of this Master Program.
5. It is the applicant's responsibility to comply with all state agency policies and regulations, including all applicable health, safety and welfare requirements associated with the primary use or accessory use.
6. The traffic generated by such a facility must be safely and conveniently handled by the streets serving the proposed facility.
7. No part of a boating facility that may come in contact with the water may be treated with or consist of creosote, oil based paints, toxic chemicals, or other substances that would be harmful to the aquatic environment, unless specifically permitted and authorized by appropriate State and Federal regulatory agencies.
8. Location and design of boating facilities shall not unduly obstruct navigable waters.

**5.2.3 COMMERCIAL DEVELOPMENT**

Commercial developments typically include those uses which are involved in wholesale and retail trade or business activities including business parks, restaurants, shops, and offices. Commercial developments can be intensive users of space because of extensive floor areas and because of facilities, such as parking, necessary to serve them. Primary commercial uses are prohibited in all shoreline environments subject to this Shoreline Master Program. The following policies apply to commercial uses that are accessory to permitted recreational uses.

## **A. POLICIES**

1. Commercial uses should only be allowed as accessory uses to permitted recreational uses. Primary commercial uses should be prohibited.
2. Preference should be given first to water-dependent commercial uses over nonwater-dependent commercial uses; and second, to water-related and water-enjoyment commercial uses over nonwater-oriented commercial uses.
3. Strongly encourage new commercial developments on shorelines to locate in those areas where current commercial uses exist.
4. In order to minimize adverse impact, ensure that adequate assessment be made of and consideration given to, the effect a commercial structure will have on a scenic view significant to a given area or enjoyed by a significant number of people.
5. New parking facilities to serve commercial uses should be prohibited. Accessory commercial uses should make use of existing parking facilities when sufficient to meet the public access need.
6. Permitted commercial development should provide physical and/or visual public access to the shoreline.
7. Ensure that commercial development does not result in a net loss of shoreline ecological functions or have significant adverse impact to other shoreline uses, resources, and values, provided for in RCW 90.58.020 such as navigation, recreation, and public access.

## **B. REGULATIONS**

1. Primary commercial uses are prohibited in all shoreline environments.
2. Nonwater-oriented commercial uses on the shoreline are prohibited unless they meet the following criteria:
  - a. The use is part of a mixed-use project that includes water-dependent uses and provides a significant public benefit with respect to the Shoreline Management Act's objectives such as providing public access and ecological restoration; or
  - b. Navigability is severely limited at the proposed site; and the commercial use provides a significant public benefit with respect to the Shoreline Management Act's objectives such as providing public access and ecological restoration.
3. Commercial development may be allowed in the Urban Conservancy environment as an accessory use to a permitted recreational use, pursuant to the conditional use permit provisions of this Master Program. Examples of limited accessory commercial uses include:

- a. Concession stands that exceed 200 square feet in size, whether or not it is a permanent structure. Concession stands up to 200 square feet in size, and which are not permanent structures, are exempt from a conditional use permit. All concession stands and concessionaires are subject to approval by recreation, building, and fire officials, whether or not a building permit is required.
  - b. Restaurants.
  - c. Sale or rental of recreation/sports equipment is permitted subject to the same limitations as concession stands in this subsection. Associated outdoor storage area is not included in the size limit on structures. Nonpermanent, outdoor storage of equipment, such as kayaks, paddleboards, and similar, is permitted concurrent with the primary use, and may include overhead weather protection (no sidewalls) as determined appropriate by the City. Fencing is subject to meeting other city regulations.
4. Public access and ecological restoration shall be considered as potential mitigation of impacts to shoreline resources and values for all water-related or water-dependent commercial development unless such improvements are demonstrated to be infeasible or inappropriate.
  5. Where commercial use is proposed for location on shorelands, public access shall be required.
  6. Overwater commercial development is prohibited, except as otherwise allowed consistent with the recreational development provisions of this chapter, and provided that docking, launching, or similar activities and needs, associated are water-dependent activities, are not unnecessarily prohibited.
  7. Commercial development shall only be permitted where it can be demonstrated to result in no net loss of shoreline ecological functions.

#### **5.2.4 IN-STREAM/LAKE STRUCTURAL USES**

“In-Stream/lake structure” means a structure placed by humans within a stream or lake waterward of the ordinary high water mark that either causes or has the potential to cause water impoundment or the diversion, obstruction, or modification of water flow. In-stream/lake structures may include those for hydroelectric generation, irrigation, water supply, flood control, transportation, utility service transmission, fish habitat enhancement, stormwater outfall structures, the existing hypolimnetic injection system, weirs, or other purpose.

A weir is a fence or enclosure set in a waterway for the purpose of taking fish or a dam in a stream or river for the purpose of raising the water level or diverting its flow. Lake Ballinger’s outlet is controlled by a weir that conveys water out of the lake into McAleer Creek. The weir regulates the lake level at an elevation set by superior court order. A weir also exists in Hall Creek, near the inlet to Lake Ballinger.

The modification or replacement of these weirs, or the construction of any new weirs, shall be subject to the policies and regulations contained in this Master Program.

#### **A. POLICIES**

1. In-stream/lake structures should provide for the protection and preservation of ecosystem-wide processes, ecological functions, and cultural resources, including, but not limited to, fish and fish passage, wildlife and water resources, shoreline critical areas, hydrogeological processes, and natural scenic vistas.
2. The location and planning of in-stream structures should give due consideration to the full range of public interests, watershed functions and processes, and environmental concerns.
3. Any modification or replacement of the existing weir or construction of a new weir should be consistent with relevant basin planning documents such as the 2009 Lake Ballinger/McAleer Creek Strategic Action Plan or successors.

#### **B. REGULATIONS**

1. In-stream/lake structures shall be allowed only where necessary to support water-dependent uses, public access, shoreline stabilization, or other specific public purpose. Breakwaters and jetties are considered marine structures that are not appropriate for this freshwater shoreline and are prohibited.
2. Any modification or replacement of existing in-stream/lake structures or construction of a new structure should be located and designed to ensure no net loss of shoreline ecological functions or processes.
3. In-stream/lake structures shall be designed to protect critical areas and shall provide for mitigation according to the sequence defined in WAC 173-26-201(2)(e).
4. In-stream structures shall be constructed and maintained in a manner that does not degrade the quality of affected waters.
5. In-stream structures shall allow for normal ground water movement and surface runoff.
6. In-stream structures shall preserve valuable recreation resources and aesthetics values.
7. Any modification or replacement of the existing weir or construction of a new weir must maintain a lake level consistent with the 1982 readjudicated Superior Court Order or any subsequent court orders that modify that level.

#### **5.2.5 RECREATIONAL DEVELOPMENT**

Recreation is the refreshment of body and mind through forms of play, amusement, or relaxation. Water related recreation accounts for a very high proportion of all recreational activity in the Pacific

Northwest. The recreational experience may be an active one involving boating, swimming, or fishing, or special event, or the experience may be passive such as enjoying the natural beauty of a vista, a lake, or a stream. Recreational development includes commercial and public facilities designed for, and used to, provide recreational opportunities to the public and privately owned shoreline facilities intended for use by the public or a private club, group, association, or individual.

#### **A. POLICIES**

1. Give priority to development which provides recreational uses and other improvements facilitating public access to shorelines.
2. Prevent concentration of use pressure at a few points by encouraging the development of a combination of area and linear access (parking areas and easement for example), when providing public access to recreational locations such as fishing streams.
3. Strongly encourage the linkage of shoreline parks and public access points through the use of linear access. Many types of connections can be used such as hiking paths, bicycle trails, and/or scenic drives.
4. Carefully consider the total effect the development of a recreation site will have on the environmental quality and natural resources of an area.
5. Develop guidelines for the preservation and enhancement of scenic views and vistas.
6. Avoid wasteful use of the limited supply of recreational shoreline areas by locating parking areas inland away from the immediate edge of the water and recreational beaches. Safe access should be provided by walkways or other methods.
7. Encourage a variety of recreational facilities which will satisfy the diversity of demands from groups in nearby populated centers.
8. Allow intensive recreational developments only where sewage disposal and vector control can be accomplished to meet public health standards without adversely altering the natural features.
9. Minimize surface runoff from recreational facilities.
10. Recreational development shall be located, designed, and operated in a manner consistent with the purposes of the environment designation in which they are located and such that no net loss of shoreline ecological functions or ecosystem-wide processes results.
11. Locate and design recreational facilities to minimize adverse impacts including those related to stormwater runoff, water quality, visual qualities, public access, and vegetation and habitat maintenance.

12. Ensure consistency with the Ballinger Park Master Plan and any other city council adopted plans affecting development and use of the shoreline area.

## **B. REGULATIONS**

1. Recreation facilities shall be designed to take maximum advantage of and enhance the natural character of the shoreline area.
2. Private and public recreation areas shall protect existing native vegetation in the shoreline area and restore vegetation impacted by development activities. Recreational use and development shall result in no net loss of shoreline ecological functions. Mitigation shall be provided as necessary to meet this requirement. Failure to meet this standard will result in permit denial. The City may request necessary studies by qualified professionals to determine compliance with this standard.
3. Motor vehicle use, to include two- and three-wheeled vehicles, shall not be permitted on beaches or fragile shoreline areas EXCEPT as necessary for official maintenance or the preservation of public health and safety.
4. The construction of swimming facilities, piers, moorages, floats, and launching facilities waterward of the OHWM shall be governed by the regulations relating to overwater structure construction and boating facilities in this chapter.
5. Stairways and landings shall be located upland of existing bulkheads, banks, and the ordinary high water mark unless integral to a water-dependent use or overwater structure permitted by this chapter.
6. Low intensity recreational uses shall be permitted in the Urban Conservancy Environment, subject to the following regulations:
  - a. A recreation facility or structure which changes or detracts from the character of the Urban Conservancy Environment (by building design, construction technique, or intensity of use that is attracted) shall be prohibited.
  - b. Special events open to the public including but not limited to fireworks, sporting events, booths, or other temporary recreational facilities, private parties or receptions and banquets, are permitted as temporary uses pursuant to City regulations governing such temporary uses and special events. (See Chapter 10.20 MTMC, Special Events, and Title 19 MTMC, Zoning code).
    - i. Special events shall utilize grassed areas and avoid impacting native vegetation. For activities with potential to damage native vegetation areas, temporary fencing and signage shall be placed around such existing areas.

- ii. In the event that native vegetation is damaged as a result of the special event, trees and shrubs need to be replaced at a 3:1 ratio in the fall or spring and native groundcover species re-established at a similar or greater density.
- iii. Overwater fireworks, as part of a proposed special event, may occur so long as a debris collection plan is approved prior to the event and collection occurs shortly after the event.
- c. Parking and roads shall be set back 100 feet from the ordinary high water mark. Trail access should be provided to link upland facilities to the shoreline.
- d. Playing fields, and other large areas devoted to organized sport and athletic activities, are not permitted. Activities consistent with any plan adopted the City Council, such as the Ballinger Park Master Plan, are permitted, provided impacts are mitigated consistent with this Master Program.
- e. Only use of organic fertilizer, weed, and pest control is permitted within the shoreline jurisdiction. If used, an integrated pest management approach is required.
- f. Redevelopment of existing golf courses may be permitted upon compliance with local rules, regulations, statutes and ordinances, provided all of the following broad parameters are also met:
  - i. Shoreline native vegetation buffers are established along the creek, lake shore, and associated marsh, bog, and swamp areas, provided shoreline access points, utility and emergency road access, and limited golf cart and pedestrian path crossings may be authorized by permit, and
  - ii. Forested wetlands are to be avoided altogether, adjacent natural buffers retained to the greatest extent possible, and adverse impacts thereto minimized to the greatest extent feasible, provided that, where the existing vegetative buffer is less than 200 feet in width, a mitigation plan to restore he functions and values, including habitat values and acreage, is prepared and implemented consistent with this Master Program..
  - iii. Stormwater improvements shall be required in order to optimize water quality treatment prior to discharge into adjacent water bodies, including wetlands.

### **5.2.6 RESIDENTIAL DEVELOPMENT**

Single-family residences are identified by the SMA as a priority use when developed in a manner consistent with control of pollution and prevention of damage to the natural environment. Without proper management, single-family residential development and use can cause significant damage to the shoreline area through cumulative impacts from shoreline armoring, stormwater runoff, septic systems,

introduction of pollutants, and vegetation modification and removal. Residential development includes the creation of new residential lots through land division as well as accessory uses and structures when allowed by the underlying zoning.

**A. POLICIES**

1. Single-family residences and their appurtenant structures are a preferred shoreline use when developed in a way that controls pollution and prevents damage to the shoreline environment.
2. Accessory structures such as accessory dwelling units, swimming pools, sport courts and other structures should be located and designed to minimize impervious surface and be visually and physically compatible with adjacent shoreline features.
3. Property owners wishing to expand or modify existing residences within shoreline jurisdictions should enhance shoreline vegetation and/or improve shoreline conditions in a manner that offsets the impacts of the proposed expansion or modification.
4. Prohibit residential development over water.
5. Do not allow new residential development on shorelines that would be dependent on future structural shoreline stabilization.
6. Residential development should result in no net loss of shoreline ecological functions.
7. Measures to conserve native vegetation along shorelines should be required for all residential development. Vegetation conservation may include avoidance or minimization of clearing or grading, restoration of areas of native vegetation, and/or control of invasive species.
8. Residential development should provide adequate setbacks and natural buffers from the water and ample open space among structures to protect natural features, preserve views and minimize use conflicts.
9. Residential development should be designed so as to preserve existing shoreline vegetation, control erosion, and protect water quality using best management practices, using low impact development technologies, where feasible.
10. The City encourages the use of joint-use piers and docks in lieu of individual piers and docks for each waterfront lot to protect the ecological functions of the lake.

**B. REGULATIONS**

1. Residential development shall result in no net loss of shoreline ecological functions. Mitigation shall be provided as necessary to meet this requirement. Failure to meet this standard will result in permit denial. The City may request necessary studies by qualified professionals to determine compliance with this standard.

2. Residential development over water shall be prohibited.
3. Clearing and grading associated with a single-family residence may be exempted from the shoreline substantial development permit requirement, provided the following conditions are met:
  - a. The clearing and grading activity is confined to the construction site; and
  - b. Grading does not exceed 250 cubic yards.
4. The stormwater runoff for all new or expanded pavements or other impervious surfaces shall be directed to infiltration systems and other low impact development techniques shall be incorporated into new development as feasible, consistent with Chapter 16.20 of MTMC and the Low Impact Development Technical Guidance Manual for Puget Sound.
5. Structures or other development accessory to residential uses are permitted in shoreline jurisdiction, if allowed under all other applicable standards in this SMP and subject to the provisions of the City's zoning code.
6. All additions to residential structures must comply with all standards in this SMP, including required shoreline setbacks.
7. Residential development and normal appurtenances, such as garages, decks, driveways, and fences shall be located sufficiently landward of the ordinary high water mark to preclude the need for new structural shoreline stabilization during the useful life of the structure.

### **5.2.7 SIGNS**

Signs are publicly displayed boards whose purpose is to provide information, direction, or advertising. Signs may be pleasing or distracting, depending upon their design and location. A sign, in order to be effective, must attract attention; however, a message can be clear and distinct without being offensive. There are areas where signs are not desirable but, generally, it is the design that is undesirable, not the sign itself.

#### **A. POLICIES**

1. Prohibit off-premise, outdoor, advertising signs in all shoreline areas.
2. Establish size, height, density, and lighting limitations for signs.
3. Prevent degradation of vistas and viewpoints and impairment of visual access to the water from such vistas by the placement of signs.

4. Require, whenever feasible, that signs be constructed against existing buildings to minimize visual obstructions of the shorelines.

## **B. REGULATIONS**

1. All signs shall comply with the City's sign regulations as contained in applicable sections of MTMC Title 19 Zoning Code, except that public health and safety signage is exempt from such title.
2. Off-premises, outdoor advertising signs shall not be permitted in any area subject to the jurisdiction of the Shoreline Management Act.
3. Animated signs are prohibited.
4. Freestanding signs shall not be allowed when they would significantly degrade a vista or viewpoint or impair the visual access to the water from such vistas.

Applications for free-standing signs shall demonstrate that it is infeasible or impracticable to locate or mount the requested sign flush on the building or as a monument sign. Failure to satisfactorily meet this requirement shall be sufficient grounds for denial of the application.

5. Monument signs are the preferred signage. The maximum allowable height for monument signs shall be six (6) feet from the ground level to sign top, subject to reasonable accommodation based on site and access conditions that render this standard impractical or insufficient to meet the need, at the discretion of the recreation official.

## **5.2.8 TRANSPORTATION**

Transportation facilities are those structures and developments that aid in land and water surface movement of people, animals, goods, and services. They include roads and streets, railroads, bridges, bikeways, trails, parking, and other related facilities. A road is a linear passageway, usually for motor vehicles, and a railroad is a surface linear passageway with tracks for train traffic. Their construction can limit access to shorelines, impair the visual qualities of water-oriented vistas, expose soils to erosion, and retard the runoff of floodwaters.

Parking is the temporary storage of automobiles or other motorized vehicles, and is only allowed as an accessory to a permitted shoreline use. Parking as a primary use and parking which serves a use not permitted in shoreline jurisdiction is prohibited.

## **A. POLICIES**

1. New transportation facilities should be located away from shorelines whenever feasible. If allowed, transportation facilities should be designed to be the minimum width necessary.
2. All new or expanded roadways should be designed and located to minimize impacts to shoreline ecological functions including riparian and nearshore areas, and the natural landscape.

3. Design and maintain roads to minimize erosion and permit a natural movement of surface runoff.
4. Provide safe pedestrian and other nonmotorized travel facilities in public shoreline areas.
5. Circulation system planning shall include systems for pedestrian, bicycle, and public transportation where appropriate. Circulation planning and projects should support existing and proposed shoreline uses that are consistent with the Master Program.
6. New road construction in the shoreline jurisdiction should be minimized, and allowed by conditional use only when related to and necessary for the support of permitted shoreline activities.
7. Parking is not a preferred use in shorelines and should only be allowed to support authorized uses where no feasible alternatives exist.
8. Parking facilities in shoreline areas should be located and designed to minimize adverse impacts including those related to stormwater runoff, water quality, visual qualities, public access, and vegetation and habitat maintenance, and shall result in no loss of ecological functions.
9. Parking in shoreline areas should not restrict access to the site by necessary public safety vehicles, utility vehicles, or other vehicles requiring access to shoreline properties.

## **B. REGULATIONS**

### General

1. New road construction in shoreline jurisdiction shall be minimized and allowed only when related to and necessary for the support of permitted shoreline activities.
2. Expansion of existing roadways within the shoreline jurisdiction shall be allowed only when the proponent demonstrates that:
  - a. No alternative route is feasible;
  - b. The roadway is constructed and maintained to cause the least possible adverse impact on the land and water environment; and
  - c. The roadway is found to be in the public interest.
3. Streets within shoreline jurisdiction shall be designed with the minimum pavement area required. Gravel and more innovative materials shall be used where feasible for pathways and road shoulders to minimize the amount of impermeable surfaces and help to maintain a more natural appearance.
4. Transportation and parking facilities shall be planned, located, and designed, so that routes will have the least possible adverse effect on unique or fragile shoreline features, will not result in a

net loss of shoreline ecological functions, or adversely impact existing or planned water-dependent uses.

5. Road routes shall make provisions for pedestrian, bicycle, and other non-motorized modes of travel whenever feasible.

#### Parking

6. Parking facilities are not a water-dependent use and shall only be permitted within the shoreline to support an authorized use where it can be demonstrated that there are no feasible alternative locations away from the shoreline.
7. Parking facilities shall be located outside of shoreline jurisdiction or as far landward from the ordinary high water mark as feasible. When located within shoreline jurisdiction, the location and design of parking facilities shall:
  - a. Minimize visual and environmental impacts to adjacent shoreline and critical areas.
  - b. Provide for pedestrian access through the facility to the shoreline; and
  - c. Facilitate public access to and enjoyment of the shoreline.
8. Parking, storage, loading and service areas and facilities serving commercial uses shall minimize their visual impact on the shorelines, utilize low impact development techniques and be placed outside of the shoreline, wherever possible.
9. Off-street parking facilities shall be set back from the ordinary high water mark a sufficient distance, to be determined on a case-by-case basis, so as not to require the creation of or the protection of new land by shore protection measures.
10. Upland parking facilities within the jurisdiction of this Master Program shall be designed and landscaped to minimize adverse impacts on adjacent shorelines and abutting properties. Landscaping shall be appropriate materials and vegetation, be planted within one year after completion of construction and be providing effective screening five years after planting, where applicable.
11. Upland parking facilities within the jurisdiction of this Master Program for shoreline activities shall provide safe and convenient pedestrian circulation within the parking area and to the shorelines.
12. Parking layouts must be designed efficiently to use the minimum amount of space necessary to provide the required parking and safe and reasonable access.
13. Parking areas serving individual buildings on the shoreline shall be located landward from the primary building being served, except when the parking facility is within or beneath the

structure and adequately screened or in cases when an alternate orientation would have less adverse impact on the shoreline.

14. Parking facilities shall comply with federal and state water quality laws and regulations with regard to surface water runoff.
15. Parking facilities shall not be permitted over water.

### **5.2.9 UTILITIES**

Utilities are services that produce and carry electric power, gas, sewage, water, communications, and oil. At this time, the most feasible methods of transmission are the linear ones of pipes and wires. The installation of this apparatus necessarily disturbs the landscape but can usually be planned to have minimal visual and physical effect on the environment. On-site utility features serving a primary use, such as water, sewer, or gas lines to a residence, are “accessory utilities” and shall be considered a part of the primary use.

#### **A. POLICIES**

1. Design and location of utilities should provide for no net loss of ecological functions and values.
2. Ensure that upon completion of utility installation or maintenance projects on shorelines, all areas be restored to pre-project configuration, replanted with native species and, provided with maintenance care until the newly planted vegetation is established.
3. Locate utility trunk lines and facilities outside shoreline areas, to the maximum extent feasible.
4. Locate utility lines and facilities, when they must be placed in a shoreline area, so as not to obstruct or destroy scenic views. Whenever feasible, these facilities should be placed underground, or designed to do minimal damage to the aesthetic qualities of the shoreline area.
5. To the maximum extent feasible, local governments should incorporate major transmission line rights-of-way on shorelines into their program for public access to and along water bodies.
6. Locate utilities to meet the needs of future populations in areas planned to accommodate this growth.
7. Combine utility rights-of-way in shoreline areas to the maximum extent possible.
8. Require that major utility development be consistent with adopted City comprehensive plans for utilities, where they exist, for provision of the respective utility service to the City’s residents.
9. Solid waste disposal activities and facilities are prohibited in shoreline areas.
10. Utilities serving new development should be located underground, wherever feasible.

## **B. REGULATIONS**

1. Applications for installation of utility facilities shall include the following (at a minimum):
  - a. Reasons why utility facility must be in a shoreline area;
  - b. Alternative location(s) considered and reasons for their elimination;
  - c. Location of other utility facilities in the vicinity of the proposed project to include the facilities of other types of utilities;
  - d. Proposed method(s) of construction;
  - e. Plans for reclamation of areas disturbed during construction;
  - f. Landscape plans (where appropriate);
  - g. Documentation that major utility developments are consistent with adopted City comprehensive plans for utilities, where such plans exist.
2. Utility transmission lines shall be underground (underwater) wherever practical and where not significantly detrimental to the environment.
3. Utility distribution lines, service lines, and connections shall be underground (underwater) wherever practical provided that such systems designed to serve floodplain development need not be so located.
4. Utility production and processing facilities, such as power plants and sewage treatment plants, or parts of those facilities, that are nonwater-oriented, shall not be allowed in shoreline areas unless it can be demonstrated that no other feasible option is available.
5. Where utility systems cross shoreline areas, clearing necessary for installation or maintenance shall be kept to a minimum width necessary to prevent interference by trees and other vegetation with the proposed systems.
6. Outfall pipelines and diffusers are water-dependent, but should be located only where there will be no net loss in shoreline ecological functions and processes or adverse impacts upon shoreline resources and values.
7. Temporary storage of solid waste in suitable receptacles is permitted as an accessory use to a primary permitted use, or for litter control.
8. Solid waste disposal sites and facilities are prohibited in the shoreline environment.
9. The location and construction of outfalls shall comply with all appropriate federal, state, county and city regulations.

10. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of floodwaters into the systems and discharge from the systems into floodwaters.
11. Utilities shall be located in existing rights-of-way or corridors wherever practicable.

#### Underground Utility Lines

12. Such facilities shall minimize crossings of water bodies.
13. Banks and dikes where such facilities enter or leave a body of water shall be returned to their preconstruction configuration, shall be thoroughly compacted and protected against erosion, and shall be maintained in a safe conditions by the utility.
14. Utility lines entering or leaving a body of water, other than a river, shall be buried below the surface of the water body's bed out to a minimum water depth of minus ten feet (-10'), measured from mean lower low water PROVIDED that, where the utility consists of a flexible cable and the bottom material is soft, such cable need only be buried to a depth of minus five feet (-5'), measured from mean lower low water; and PROVIDED FURTHER that, if such cable does not bury itself to a minimum depth of ten (10) feet below mean lower low water within one year of installation, the permittee shall bury the cable to such depth.
15. Underground utility lines shall be completely buried under the river bed in all stream crossings except where such lines are permanently affixed to a bridge structure.

#### Surface Utility Lines

16. Surface utility lines shall be avoided wherever possible.
17. When paralleling a water body or highway surface, utility rights-of-way shall be separated from them by a visual buffer of natural vegetation wherever available.
18. Surface utility lines shall cross shoreline jurisdictional areas by the shortest, most direct route feasible, unless such a route would cause significant environmental damage.
19. Surface utility lines shall minimize crossings of shoreline areas.

#### Aerial Utility Lines

20. Aerial utility lines shall minimize crossings of shoreline areas.
21. Aerial utility lines shall cross shoreline jurisdictional areas by the shortest, most direct route feasible, unless such a route would cause significant environmental damage.

22. Rights-of-way for aerial utility lines shall not be clear-cut, but shall leave low-growing shrubs and bushes except as necessary for access roads.
23. Low areas between towers shall not be cleared where the projected growth of vegetation in such areas would not endanger the utility lines.
24. Aerial utility lines shall make maximum use of topography to minimize visual contrast with the environment.
25. When paralleling a water body, aerial utility rights-of-way shall be separated from said bodies by a visual buffer of natural vegetation wherever available, except where located in highway rights-of-way.
26. Bends shall be the preferred location for river crossings of aerial utility lines.

### **5.3 Modification Policies and Regulations**

Shoreline modification activities are those actions that modify the physical configuration or qualities of the shoreline area. Shoreline modification activities are, by definition, undertaken in support of or in preparation for a permitted shoreline use. A single use may require several different shoreline modification activities.

Shoreline modification activity policies and regulations are intended to assure, at a minimum, no net loss of ecological functions necessary to sustain shoreline natural resources and to prevent, reduce and mitigate the negative environmental impacts of proposed shoreline modifications consistent with the goals of the Shoreline Management Act. A proposed development must meet all of the regulations for both applicable uses and activities as well as the general and environment designation regulations.

#### **5.3.1 DREDGING**

Dredging is the removal of earth from the bottom of a stream, river, lake, bay, or other water body for the purposes of deepening a navigational channel or to obtain use of the bottom materials for landfill. A significant portion of all dredged materials are deposited either in the water or immediately adjacent to it, often resulting in problems of water quality. Upland disposal of dredge spoils in the shoreline shall be subject to the policies and regulations for landfill.

#### **A. POLICIES**

1. Regulate and control dredging to minimize damage to existing ecological systems and natural resources of both the area to be dredged and the area for deposit of dredged materials.
2. Identify soil deposit sites in water areas with the assistance of the State Departments of Natural Resources, and Fish and Wildlife.

3. Allow deposition of dredge materials in water areas, except as provided for under Landfills, only for habitat improvements, to correct problems of material distribution adversely affecting fish resources or where the alternative of depositing materials on land is more detrimental to shoreline resources than depositing it in water areas.
4. Dredging of bottom materials for the single purpose of obtaining fill material should not be allowed except when the material is necessary for the restoration of ecological functions and where placement of the material is waterward of the ordinary high water mark.
5. Encourage utilization of a spoil transfer site, which can be used on a continuing basis.
6. Approve new dredging projects only when accompanied by an acceptable plan for the long-range disposal of dredge spoils created by the project and its continued maintenance.
7. Provide for a periodic review of existing dredging projects.
8. Prohibit dredging in or the disposal of spoils on archaeological sites, which are listed on the Washington State Register of Historic Places until such time as they are released.
9. Dredging should be sited and designed to avoid or, if avoidance is not possible, minimize the need for new or maintenance dredging.

## **B. REGULATIONS**

1. Dredging and disposal of dredge material shall avoid, and minimize significant ecological impact; impacts that cannot be avoided shall be mitigated to achieve no net loss of ecological processes and functions.
2. Dredging may be permitted as a conditional use activity only:
  - a. When necessary to support a permitted water-dependent use.
  - b. For maintenance dredging for the purpose of restoring a lawfully established development.
  - c. As part of mitigation actions, environmental restoration, or habitat enhancement projects.
  - d. When technical information demonstrates water circulation, aquatic life and water quality will not be substantially impaired.
  - e. When other solutions would result in greater environmental impact.
  - f. As part of an approved habitat improvement project.
  - g. If it improves water quality.

- h. To remove silt or sediment deposited because of severe and unusual erosion or resulting from the existence of a bulkhead on nearby property.
  - i. To mitigate conditions which could endanger public safety.
  - j. Provided applicable permits of other local, state, and federal agencies have been obtained.
- 3. Maintenance dredging associated with a water dependent use shall be restricted to maintaining the previously dredged and/or existing authorized location, depth and width.
- 4. Dredging for the primary purpose of obtaining fill or construction material is prohibited, except for projects associated with MTCA (Model Toxics Control Act, Chapter 70.105D RCW) or CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act, commonly known as Superfund, to cleanup sites with hazardous substances), habitat restoration, or any other significant restoration effort approved by a shoreline conditional use permit. When dredging is allowed for fill materials, placement of fill must be waterward of the OHWM.
- 5. Dredging may be permitted in McAleer Creek for removal of gravel, sediment, or buried wood debris for flood management purposes consistent with a City-adopted flood hazard reduction plan and only after a biological and geomorphological study demonstrates that extraction has a long term benefit to flood hazard reduction, does not result in a long-term degradation of fish habitat, and is part of a comprehensive flood management solution.
- 6. Excavations on beaches below the OHWM in lands covered by water constitute dredging and shall include precautions to prevent the migration of fine grain sediments, disturbed by the excavation, onto adjacent beach areas. Excavations on beaches shall be backfilled promptly using material of similar composition and similar or coarser grain size.
- 7. Dredging shall be timed so that it does not interfere with aquatic life.
- 8. Dredging shall utilize techniques (such as hydraulic dredging instead of agitation dredging) that cause minimal dispersal and broadcast of bottom material.
- 9. Limitations may be imposed on dredging activities, such as limited operating hours, time periods, and requirements for buffer strips at the site.
- 10. Dredge spoil disposal is prohibited on Lake Ballinger shorelines or beds; except that, dredge spoil may be used in approved projects for the restoration or enhancement of shoreline ecological functions and processes, such as beach nourishment.
- 11. Applications for dredging and dredged material disposal shall include the following information (at a minimum):

- a. A description of the purpose of the proposed dredging and an analysis of compliance with the policies and regulations of this Program.
- b. A detailed description of the existing physical character, shoreline geomorphology and biological resources provided by the area proposed to be dredged, including:
  - i. A site plan map outlining the perimeter of the proposed dredge area. The map must also include the existing bathymetry depths based on Mean Lower Low Water (MLLW) and have data points at a minimum of 2-foot depth increments.
  - ii. A habitat survey must be conducted and Washington State Department of Fish and Wildlife (WDFW) must be contacted to ensure the survey is conducted according to the most recent WDFW eelgrass/macroalgae survey guidelines.
  - iii. Information on stability of bedlands adjacent to proposed dredging and spoils disposal.
- c. A detailed description of the physical, chemical, and biological characteristics of the dredge spoils to be removed, including:
  - i. Physical analysis of material to be dredged: material composition and amount, grain size, organic materials present, source of material, etc.
  - ii. Chemical analysis of material to be dredged: volatile solids, chemical oxygen demand, (COD), grease and oil content, mercury, lead and zinc content, etc.
  - iii. Biological analysis of material to be dredged.
- d. A description of the method of materials removal, including facilities for settlement and movement.
- e. Dredging procedure: length of time it will take to complete dredging, method of dredging and amount of materials removed.
- f. Frequency and quantity of project maintenance dredging.
- g. Hydraulic modeling studies sufficient to identify existing geo-hydraulic patterns and probable effects of dredging.

### **5.3.2 LANDFILL, FILL, AND EXCAVATION**

“Landfill” means the creation of or addition to, a dry upland area (landward of the OHWM) by the addition of rock, soil, gravels and earth or other material. “Landfill” does not include solid or hazardous waste. Fill is 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. Landfills and fills also occur to replace shoreland areas removed by wave action or the normal erosive processes of nature. However, most landfills and fills destroy the natural character of land, create unnatural heavy erosion and silting problems and diminish the existing water surface. Disposal of dredged material is subject to the dredging requirements of this SMP.

The policies contained herein are intended to focus on the aspects of natural systems affected by dredging and the disposal of dredge material, man-made fill, cuts, excavations and site grading actions, while at the same time recognizing the community's needs.

#### **A. POLICIES**

1. Sanitary Landfills should be prohibited in all shoreline environments.
2. Landfill should only be permitted to the minimum extent necessary to accommodate an approved shoreline use or development and with assurance of no net loss of shoreline ecological functions and processes. Enhancement and voluntary restoration of landforms and habitat are encouraged.
3. Shoreline landfills should be designed and located so that there will be no significant damage to existing ecological systems or natural resources, and no alteration of local currents, surface and subsurface drainage, or flood waters which would result in hazard to adjacent life, property, or natural resource systems.
4. Where permitted, landfill coverage should be the minimum necessary to provide for the proposed use. Landfills should be permitted only when tied to a specific development proposal that is permitted by the master program.
5. In evaluating landfill projects, factors such as current and potential public use of the shoreline and water surface area, water flow and drainage, water quality and habitat should be considered and protected to the maximum extent feasible. Further, the City should assess the overall value of the landfill site in its present state versus the proposed shoreline use to be created to ensure consistency with the Shoreline Management Act and this Master Program.
6. The perimeter of landfills should be designed to avoid or eliminate erosion and sedimentation impacts, both during initial fill activities and over time. Natural appearing and self-sustaining control methods are preferred over structural methods.
7. Fill waterward of the OHWM should be prohibited, except as part of an approved habitat restoration or enhancement project.
8. Allow deposition of dredge materials in water areas only for habitat improvements, to correct problems of material distribution adversely affecting fish resources or where the alternative of depositing materials on land is more detrimental to shoreline resources than depositing it in water areas.

## **B. REGULATIONS**

1. Sanitary landfills or the location of solid waste disposal sites within any area subject to the jurisdiction of the Shoreline Management Act is strictly prohibited.
2. Fills waterward of the ordinary high-water mark shall be allowed only when necessary to support: mitigation action, environmental restoration, beach nourishment, or enhancement project. All other fills waterward of the ordinary high water mark are prohibited.
3. Landfills shall be permitted only when used as preparation for an activity otherwise permitted by this program for the Environment in which it is located and for permitted mitigation actions, environmental restoration projects, or beach nourishment, or enhancement projects. Such landfills shall also be subject to the regulations for the proposed use.
4. Landfills and fills shall be permitted only where it is demonstrated that:
  - a. The project has been located, designed, and constructed in a manner that minimizes impacts to ecological processes and functions and where impacts cannot be avoided, mitigation is provided to achieve no net loss.
  - b. The landfill or fill does not result in significant damage to water quality, fish, aquatic habitat, and/or wildlife habitat.
  - c. The landfill or fill does not adversely alter natural drainage and circulation patterns, or significantly reduce floodwater holding capabilities.
  - d. The landfill or fill will not result in erosion of the shoreline or undermine stability of neighboring properties.
  - e. The landfill or fill is the minimum necessary to reasonably accomplish the purpose for the fill.
  - f. Where existing public access will be reduced, equivalent public access has been provided on or off site as part of the project.
  - g. Fill material consists only of soil, sand, rock, or gravel. The fill material must not contain organic or inorganic materials that would be detrimental to water quality or existing habitats.
  - h. Placement of landfill or fill will be timed so as to minimize damage to water quality and aquatic life.
5. The perimeter of all landfills shall be provided with some means to control erosion, such as vegetation, retaining walls, or other mechanisms.

6. Any placement or removal of materials landward of the OHWM shall comply with the provisions of Vegetation Conservation (Clearing and Grading) of this SMP.
7. Landfills, fills, and excavation shall be designed to blend physically and visually with existing topography whenever possible, so as not to interfere with long term appropriate use including lawful access and enjoyment of scenery.
8. A temporary erosion and sediment control (TESC) plan shall be provided for all proposed landfill and excavation activities.
9. The landfill or fill shall be designed and supervised by a civil engineer or similarly qualified professional. The professional shall certify that the landfill or fill meets the following requirements:
  - a. The landfill or fill is designed and executed to minimize adverse impacts on neighboring properties and the environment, and is fully integrated into an otherwise approved facility.
  - b. The landfill or fill is designed and executed to provide permanent structural integrity for the fill and surrounding areas.
10. Applications, which include landfill or fill, shall include the following information:
  - a. Physical, chemical, and biological character of fill material demonstrating that the fill is of such quality that significant water quality, ecological impacts, and public health problems would not occur from its placement;
  - b. Source of fill material;
  - c. Method of placement and compaction;
  - d. Type of proposed surfacing;
  - e. Method of perimeter erosion control, and schedule for implementation;
  - f. Proposed use of filled area;
  - g. Assessment of water quality impacts;
  - h. Type of surfacing and run-off control and treatment devices;
  - i. Location of the landfill relating to natural or existing drainage patterns;
  - j. Location of the perimeter of the landfill or fill relating to the ordinary high water mark and any critical areas.

### **5.3.3 OVERWATER STRUCTURES: PIERS, DOCKS, AND FLOATS**

Docks are fixed structures floating upon water bodies. Piers are fixed, pile-supported structures. Floats are floating structures that are moored, anchored, or otherwise secured in the water, often on a temporary basis, that are not connected to the shoreline, but may be connected to other overwater structures. Docks, piers, and floats that serve four or fewer boats regularly moored are reviewed as recreational facilities. Proposals for five or more boats are considered marinas and are regulated under Boating Facilities. Floating docks generally have less of a visual impact than piers on pilings. However, in the nearshore, docks can interrupt littoral drift of sediments and other suspended materials, and significantly shade the aquatic environment throughout their length. Pile piers can provide diverse habitat for both desirable and undesirable aquatic life. Excavated moorage involves dredging and will disturb bottom sediments and aquatic life. Docks and piers alike create impediments to boat traffic and fish travel. Pier construction requires regulation to protect navigation, to protect shoreline aesthetics, and to maintain the useable water surface and aquatic lands for life forms characteristic and important to those areas.

#### **A. POLICIES**

1. Encourage implementation of Council adopted plans for development and use in the shoreline area of the Ballinger Park Master Plan.
2. Give priority to the use of publically accessible piers and docks in all waterfront development. In general, encouragement should be given to the cooperative use of piers and docks.
3. Provide for development agreements for new overwater development not associated with a residential use.
4. New piers and docks should be allowed only for public access and/or water-dependent uses.
5. New piers and docks should be restricted to the minimum size necessary to serve the community and permitted only when the applicant has demonstrated that a specific need exists to support the intended water-dependent use.
6. A dock associated with a single-family residence is considered a water-dependent use provided that it is designed and intended as a facility for access to watercraft and otherwise complies with the provisions of this section.
7. New pier or dock construction, excluding docks accessory to single-family residences, should be permitted only when the applicant has demonstrated that a specific need exists to support the intended water-dependent use.
8. When permitted, new residential development of more than two dwellings should provide joint use or community docks, rather than individual docks

9. Piers and docks, including that accessory to single-family residences, shall be designed and constructed to avoid or to minimize and mitigate the impacts to ecological functions, critical areas resources such as fish habitat.
10. Preference should be given to fixed-pile piers elevated above the OHWM. Floating docks should be allowed if the applicant can demonstrate why a fixed pile pier is not feasible or will result in greater impacts.
11. Recreational floats should be allowed where they will augment public or private recreational uses, or in lieu of fixed piers.
12. New moorage covers should not be allowed.
13. Overwater structures, including piers, should only be authorized after consideration of:
  - a. The effect such structures have on wildlife and aquatic life, water quality, scenic and aesthetic values, environmental sensitive resources, submerged lands, and submerged vegetation.
  - b. The effect such structures have on water circulation, recreational boating, sediment movement and littoral drift and shoreline access.
14. Lighting facilities should be limited to the minimum extent necessary to locate the pier or dock at night.
15. Over-water structures should be designed to avoid the need for maintenance dredging. The moorage of a boat larger than provided for in the original moorage design shall not be grounds for approval of dredging.

## **B. REGULATIONS**

1. Covered moorage is prohibited in all shoreline environments.
2. Mooring buoys are prohibited in all shoreline environments.
3. Piers and docks may not be larger than is necessary to provide safe and reasonable moorage for the boats, which can reasonably be expected to be moored. The city will specifically review the size and configuration of each proposed pier or dock to ensure that:
  - a. The pier or dock does not extend waterward beyond the point necessary to provide reasonable draft for the boats to be moored; and
  - b. The pier or dock is not larger than is necessary to moor the specified number of boats; and

- c. The pier or dock will not interfere with the public use and enjoyment of the water or create a hazard to navigation; and
  - d. The pier or dock will not adversely affect nearby uses; and
  - e. The pier or dock will not have a significant long-term adverse effect on aquatic habitats.
4. In order to minimize impacts on nearshore areas and avoid reduction in ambient light level:
- a. The width of piers, docks, and floats shall be the minimum necessary. Piers and docks shall not exceed four (4) feet in width, except where special accommodation is needed for accessibility (ADA) or for safety reasons in which case residential piers and docks shall not exceed six (6) feet.
  - b. Public piers and docks should not exceed eight (8) feet in width for the first 30 feet waterward of the OHWM, which can be expanded in width after this distance to justify the need.
  - c. Floats shall not exceed eight (8) feet in width and 20 feet in length unless authorized by a variance, or justified by a community need. Short-term floats for community events are subject to a temporary use permit per Title 19 MTMC.
  - d. Dock surfaces designed to allow maximum light penetration shall be used on walkways or gangplanks in nearshore areas.
  - e. Piers, docks and floats shall be located along a north/south orientation to the maximum extent feasible.
  - f. The surface of new piers, docks and floats shall provide at least 50% functional grating.
5. Waterward of the ordinary high water mark, pier and dock height should not exceed a height of five (5) feet above water level, except that public piers may exceed the height limit an additional three (3) feet, and except pilings may extend a reasonable amount above dock height to provide for fluctuating water level conditions.
6. Prohibited substances. No part of a new or replaced pier, dock or other components that may come in contact with the water may be treated with, or consist in whole or in part, of creosote, oil based paints, toxic chemicals, or other substances that would be harmful to the aquatic environment, unless specifically permitted and authorized by appropriate state and federal regulatory agencies.
7. If the subject property provides moorage for not more than two boats, the following setbacks apply:

- i. No moorage structure may be within 25 feet of another moorage structure not on the subject property.
  - ii. The side property line setback is 10 feet for moorage structures, provided that joint or shared moorage facilities may be located within the setback from the lot with whom the facility is shared.
8. If the subject property provides moorage for more than two boats, the following setbacks apply:
  - i. No moorage structure on private property may be within 100 feet of a public park.
  - ii. No moorage structure may be within 25 feet of another moorage structure not on the subject property.
  - iii. The side property line setback is 10 feet.
9. Moorage structures and facilities may only be permitted and used accessory to detached dwelling units on waterfront lots. Use of the moorage structure and facilities is limited to the residents and guests of the waterfront lots to which the moorage is accessory. Moorage space may not be leased, rented, sold, or otherwise made available to other than the residents and guests of the waterfront lots to which the moorage is accessory.
10. Accessory uses are not permitted in conjunction with a moorage structure.
11. All new, reconstructed, repaired, or modified overwater structures must comply with all regulations contained in this SMP and all other regulations as stipulated by State and Federal agencies, local Tribes, or others that have jurisdiction.
12. Mitigation shall be provided for all reconstructed, repaired, or modified overwater structures, if necessary to ensure no net loss of ecological function.
13. Where a permitted overwater structure would adversely impact the ecological functions of critical freshwater habitats, the impacts shall be mitigated according to the sequence described in WAC 173-26-201(2)(e) as necessary to assure no net loss of ecological functions.
14. All float tubs shall be fully encapsulated and the decks shall be fully grated except for the float tubs, designed with a ramp section connecting to the upland and are prohibited from resting on the substrate.
15. Floating docks are required to be designed to not ground during low water conditions.
16. All overwater structures shall be constructed and maintained in a safe and sound condition. Abandoned or unsafe overwater structures shall be removed or repaired promptly by the owner.

17. Residential Dock, Pier or Float (Moorage Structure) Development Standards:
- i. Shared moorage. When permitted, new residential development of more than two dwellings shall be required to provide joint use or shared dock, rather than individual docks.
  - ii. Height. The height of a residential dock or pier shall not exceed five feet above the ordinary high water mark. The height of attendant pilings shall not exceed five feet above the ordinary high water mark or that height necessary to provide for temporary emergency protection of floating docks as determined in accord with generally accepted engineering practices.
  - iii. Length. The length of any residential dock, or pier, shall not exceed the lesser of 50 feet or the length of the existing dock, pier, or float.
  - iv. Setbacks. All residential docks or piers shall observe a minimum 10-foot side yard setback from a property line or a storm drainage outfall. Joint use docks or piers may be located on the side property line; provided that the abutting waterfront property owners shall file a joint use maintenance agreement with the Snohomish County auditor in conjunction with, and as a condition of, the issuance of a building permit. Joint use docks or piers shall observe all other regulations of this subsection. If such joint maintenance agreement is terminated, the dock or pier shall be brought into compliance with the bulk and setback provisions of this Master Program.
  - v. Number. Each residential lot shall be allowed one dock, or pier, or portion thereof, located on the lot, and one float.
  - vi. Size. No residential dock or pier shall exceed 400 square feet. No float shall exceed 160 square feet. The area of the float shall be counted as part of the overall dock or pier area.
  - viii. Covered Buildings. No covered building shall be allowed on any residential dock or pier.
18. Community or Public Dock, Pier or Float (Moorage Structure). The following development Standards apply, unless a different standard is the minimum necessary justified by the public need:
- i. Width. The width of community or public docks or piers shall be the minimum necessary and shall not exceed eight (8) feet in width for the first 30 feet waterward of the OHWM.
  - ii. Height. The height of a community or public dock or pier shall not exceed eight feet above the ordinary high water mark. The height of attendant pilings shall not exceed

eight feet above the ordinary high water mark or that height necessary to provide for temporary emergency protection of floating docks as determined in accord with generally accepted engineering practices.

- iii. Length. The length of any community or public dock or pier should not exceed the lesser of 120 feet or the existing length, without additional mitigation.
- iv. Setbacks. New community or public docks or piers shall observe a minimum 25-foot side yard setback from a single-family residential property line or a storm drainage outfall. Joint use docks or piers may be located on the side property line; provided that the abutting waterfront property owners shall file a joint use maintenance agreement with the Snohomish County auditor in conjunction with, and as a condition of, the issuance of a building permit. Joint use docks or piers shall observe all other regulations of this subsection. If such joint maintenance agreement is terminated, the dock or pier shall be brought into compliance with the bulk and setback provisions of this Master Program.
- v. Number. A maximum of one private community dock or pier and float may be located on a single-family lot. Up to three publicly accessible docks or piers may be built on a single parcel of publicly owned or managed land.
- vi. Size. The maximum size of a new or replaced community or public dock shall not exceed the existing size, or 800 square feet, although the dock projection does not count against this 800 foot maximum so long as the projection is demonstrated to be the minimum necessary to justify the need. The area of any float shall not exceed 240 square feet and shall not be counted as part of the overall dock or pier area. Each pier or dock may have a float associated with it. Detached floats shall be separated from another float or associated pier or dock by at least 50 feet.
- vii. Covered Buildings. No enclosed structures shall be allowed on a community or public dock or pier.
- viii. One shelter, up to 200 square feet in area, shall be permitted when associated with a public dock or pier.

#### **5.3.4 SHORELINE STABILIZATION**

Shoreline stabilization includes actions taken to protect property and dwellings, businesses, or structures from erosion impacts caused by natural processes, such as current, flood, tides, wind, or wave action. These actions include structural and nonstructural methods. Nonstructural methods include building setbacks, relocation of the structure to be protected, ground water management, planning and regulatory measures to avoid the need for structural stabilization.

“Soft” structural measures rely on less rigid materials, such as biotechnical vegetation measures or beach enhancement, while “Hard” structural stabilization measures refer to those with solid, hard surfaces, such as concrete bulkheads. Measures ranging from soft to hard include:

- Vegetation enhancement
- Upland drainage control
- Biotechnical measures
- Beach enhancement
- Anchor trees
- Gravel placement
- Rock revetments
- Gabions
- Concrete groins
- Retaining walls and bluff walls
- Bulkheads

Bulkheads are structures erected parallel to and near the high water mark for the purpose of protecting adjacent uplands from the action of waves or currents. Bulkheads have historically been constructed of poured-in-place or precast concrete, concrete blocks, wood, steel or aluminum sheet piling, wood or wood and structural steel combinations, and boulders. Bulkheads may be either thin structures penetrating deep into the ground or more massive structures resting on the surface.

Human use of the shoreline has typically led to hardening for various reasons including reduction of erosion or providing useful space at the shore or providing access to docks and piers. The impacts of hardening any one property may be minimal, but cumulatively the adverse impacts to shoreline ecological functions can be significant. Generally, the harder the construction measure, the greater the impact on shoreline processes, including sediment transport, geomorphology, and biological functions. Such impacts include:

- Beach starvation
- Habitat degradation
- Sediment impoundment
- Exacerbation of erosion
- Ground water impacts
- Hydraulic impacts
- Loss of shoreline vegetation
- Loss of large woody debris

The following policies are applicable to all shoreline stabilization measures, including bulkheads.

## **A. POLICIES**

1. Discourage new development requiring structural shoreline stabilization.
2. Relocating existing structures out of harm's way is preferable to construction of structural stabilization.
3. Allow structural stabilization methods only:
  - a. After it is demonstrated that nonstructural solutions would not be able to reduce the potential damage sufficiently, and
  - b. Where it has been demonstrated to be necessary to support a legally established, inhabited structure or when necessary for reconfiguration of the shoreline for hazardous substance remediation or restoration of ecological functions.
4. Structural stabilization will not be permitted for the indirect purpose of creating land by filling.
5. Encourage "soft" stabilization and protection works over "hard" structural means. Furthermore, designs that do not interrupt net drift or migration of anadromous fish are preferred.
6. Consider the effect that proposed shore stabilization has on ecosystem-wide processes and functions. Make provisions to avoid and minimize impacts where feasible. Mitigation should be provided if necessary to achieve no net loss of shoreline ecological functions.

## **B. REGULATIONS**

1. For the purposes of this section, standards on shoreline stabilization, "replacement" means the construction of a new structure to perform a shoreline stabilization function of an existing structure, which can no longer adequately service its purpose. Addition to or increases in size of existing shoreline stabilization measures shall be considered new structures.
2. Shoreline stabilization proposals shall avoid and reduce significant ecological impacts according to the mitigation sequence in WAC 173-26-201(2)(e).
3. New development shall be located and designed to avoid the need for future shoreline stabilization to the extent feasible. Subdivision of land shall be regulated to assure that the lots created will not require shoreline stabilization in order for reasonable development to occur, using geotechnical analysis of the site and shoreline characteristics.
4. New development that would require shoreline stabilization, which causes significant negative impacts to adjacent or down-current properties and shoreline areas, shall not be allowed.
5. Preference shall be given to those types of shoreline modifications that have a lesser impact on ecological functions. "Soft" shoreline modification measures shall be preferred over "hard"

shoreline modification measures. “Hard” shoreline modifications shall only be allowed as provided in (7) below.

6. Structural stabilization methods shall be permitted when necessary for reconfiguration of the shoreline for mitigation or enhancement purposes.
7. New structural stabilization measures shall not be allowed except when necessity is demonstrated in the following manner:
  - a. To protect existing primary structures:
    - i. New or enlarged structural shoreline stabilization measures for an existing primary structure, including residences, should not be allowed unless there is conclusive evidence, documented by a geotechnical analysis, that the structure is in danger from shoreline erosion caused by tidal action, currents, or waves. Normal sloughing, erosion of steep bluffs, or shoreline erosion itself, without a scientific or geotechnical analysis, is not demonstration of need. The geotechnical analysis should evaluate on-site drainage issues and address drainage problems away from the shoreline edge before considering structural shoreline stabilization.
    - ii. The erosion control structure will not result in a net loss of shoreline ecological functions.
  - b. In support of new non-water-dependent development, including single-family residences, when all of the conditions below apply:
    - i. The erosion is not being caused by upland conditions, such as the loss of vegetation and drainage.
    - ii. Nonstructural measures, such as placing the development further from the shoreline, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient.
    - iii. The need to protect primary structures from damage due to erosion is demonstrated through a geotechnical report. The damage must be caused by natural processes, such as tidal action, currents, and waves.
    - iv. The erosion control structure will not result in a net loss of shoreline ecological functions.
  - c. In support of water-dependent development when all of the conditions below apply:

- i. The erosion is not being caused by upland conditions, such as the loss of vegetation and drainage.
    - ii. Nonstructural measures, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient.
    - iii. The need to protect primary structures from damage due to erosion is demonstrated through a geotechnical report.
    - iv. The erosion control structure will not result in a net loss of shoreline ecological functions.
  - d. To protect projects for the restoration of ecological functions or hazardous substance remediation projects pursuant to Chapter 70.105D RCW when all of the conditions below apply:
    - i. Nonstructural measures, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient.
    - ii. The erosion control structure will not result in a net loss of shoreline ecological functions.
- 8. All shoreline stabilization measures shall be designed and constructed so that downstream banks will not be adversely affected. Shoreline stabilization measures, including riprap, shall be designed and constructed in a manner consistent with Natural Resources Conservation Service, Corps of Engineers, and/or other engineering and design specifications deemed appropriate by the City Shoreline Administrator, and said designs shall be reviewed and confirmed by the City Shoreline Administrator as being consistent therewith.
- 9. Shoreline stabilization measures shall not be designed and constructed in such a manner as to result in channelization of normal stream flows.
- 10. Within the discretion of the permit granting authority, and considering the reasonableness of the conditions and the technological state of the art, applications for shoreline stabilization measures shall include the following (at a minimum):
  - a. Purpose of project;
  - b. Geotechnical report or analysis;

- c. Hydraulic characteristics of stream or lake within one-half mile on each side of proposed project;
  - d. Existing shoreline stabilization and flood protection devices within one-half mile on each side of proposed project;
  - e. Construction material and methods;
  - f. Resultant hydraulic characteristics of stream or lake.
11. Shoreline stabilization measures are allowed in floodways and density fringe areas of the base flood (100-year frequency) only when their purpose is to protect existing development or to prevent serious impairment of channel function. Provided, that where the detailed information referenced in Regulation 10 above is not required due to waiver or exemption from a permit, stabilization measures shall be reviewed and approved by the City Shoreline Administrator, with said approval to confirm that measures mitigate or avoid the potential for adverse impacts to adjacent shoreline consistent with Regulation 7 above. Provided further, that vegetative and/or other nonstructural shoreline stabilization measures may be used in hydraulic floodways for any purpose otherwise consistent with the Master Program, the Shoreline Management Act and its administrative guidelines.
  12. Streambank vegetation shall be preserved to the maximum extent feasible consistent with safe construction requirements.
  13. Cut-and-fill slopes and backfill areas shall be revegetated with natural grasses, shrubs and/or trees and keeping with existing river bank vegetation.
  14. Geotechnical reports pursuant to this section that address the need to prevent potential damage to a primary structure shall address the necessity for shoreline stabilization by estimating time frames and rates of erosion and report on the urgency associated with the specific situation. As a general matter, hard armoring solutions should not be authorized except when a report confirms that there is a significant possibility that such a structure will be damaged within three years as a result of shoreline erosion in the absence of such hard armoring measures, or where waiting until the need is that immediate, would foreclose the opportunity to use measures that avoid impacts on ecological functions. Thus, where the geotechnical report confirms a need to prevent potential damage to a primary structure, but the need is not as immediate as the three years, that report may still be used to justify more immediate authorization to protect against erosion using soft measures.
  15. Geotechnical reports required pursuant to this section shall address the need for shoreline stabilization and shall include the following:

- a. A scaled site plan showing:
    - i. The location of existing and proposed shore stabilization, structures, fill, and vegetation, with dimensions indicated distances to the ordinary high water mark.
    - ii. Existing site topography with two foot contours.
  - b. A description of the processes affecting the site, and surrounding areas that influence or could be influenced by the site, including areas in which lake or marine geomorphic processes affect the site, including, but not limited to:
    - i. Soil erosion, deposition, or accretion;
    - ii. Evidence of past or potential erosion due to tidal action and/or waves;
    - iii. Littoral drift; and
    - iv. An estimate of shoreline erosion rates.
  - c. A description and analysis of the urgency and risk associated with the specific site characteristics.
16. When any structural shoreline stabilization measures are demonstrated to be necessary, pursuant to above provisions:
- a. Limit the size of stabilization measures to the minimum necessary. Use measures designed to assure no net loss of shoreline ecological functions. Soft approaches shall be used unless demonstrated not to be sufficient to protect primary structures, dwellings, and businesses.
  - b. Ensure that publicly financed or subsidized shoreline erosion control measures do not restrict appropriate public access to the shoreline except where such access is determined to be infeasible because of incompatible uses, safety, security, or harm to ecological functions. Where feasible, incorporate ecological restoration and public access improvements into the project.
  - c. Mitigate new erosion control measures, including replacement structures, on feeder bluffs or other actions that affect beach sediment-producing areas to avoid and, if that is not possible, to minimize adverse impacts to sediment conveyance systems.

17. If hard stabilization methods are employed the following design criteria shall be met:
  - a. The size and quantity of the material shall be limited to that the minimum necessary to withstand the estimated energy intensity of the hydraulic system;
  - b. Filter cloth must be used to aid drainage and help prevent settling;
  - c. The toe reinforcement or protection must be adequate to prevent a collapse of the system wave action; and
  - d. Fish habitat components shall be considered in the design subject to Hydraulic Project Approval by the Washington Department of Fish and Wildlife.
18. Shoreline stabilization and modification projects shall avoid and then minimize adverse impacts to the environment to the greatest extent feasible, and where such impacts cannot be avoided, mitigation shall be provided to achieve no net loss of shoreline ecological functions.
19. Structural stabilization shall not be permitted for the indirect purpose of creating land by filling.
20. Professional design (as approved by the City) of all shoreline stabilization is required. All shoreline modification activities shall be in support of a permitted shoreline use that is in conformance with the provisions of this Master Program unless it can be demonstrated that such activities are necessary and in the public interest.
21. All shoreline modification activities must comply with all other regulations as stipulated by State and Federal agencies, local Tribes, or others that have jurisdiction.
22. All construction and planting activities shall be scheduled to minimize impacts to water quality and fish and wildlife aquatic and upland habitat, and to optimize survival of new vegetation.
23. New bulkheads shall be allowed only for existing structures when evidence is presented through a report prepared by a geotechnical engineer or other qualified professional that conclusively demonstrates that use of natural materials and processes (soft structural solutions) and alternative site designs, including increased shoreline setbacks (nonstructural solutions), are either not feasible or will not provide the necessary protection for existing development.
24. Bulkheads and other shoreline protection structures shall be located landward of the ordinary high water mark and generally parallel to the natural shoreline unless geotechnical evaluation demonstrates the necessity for alternative design. In addition:

- a. On shorelines where no other bulkheads are adjacent, the construction of a bulkhead shall tie in with the contours of the adjoining shorelines, as feasible, such that the proposed bulkhead would not cause erosion of the adjoining properties.
  - b. Bulkheads may tie in flush with existing bulkheads on adjoining properties, provided that the new bulkhead does not extend waterward of OHWM, except that which is necessary to make the connection to the adjoining bulkhead. In such circumstances, the remaining portion of the bulkhead shall be placed landward of the existing OHWM such that no net loss of lake occurs and the design complies with all other regulations as stipulated by State and Federal agencies, local Tribes, or others that have jurisdiction.
  - c. Replacement bulkheads shall not encroach waterward of the ordinary high-water mark or existing structure unless the residence was occupied prior to January 1, 1992, and there are overriding safety or environmental concerns. In such cases, the replacement structure shall abut the existing shoreline stabilization structure.
25. An existing bulkhead or other shoreline stabilization structure may be replaced with a similar structure if there is a demonstrated need to protect primary uses or structures from erosion caused by currents, tidal action, or waves.
- a. The replacement structure should be designed, located, sized, and constructed to assure no net loss of ecological functions.
  - b. Replacement walls or bulkheads shall not encroach waterward of the ordinary high water mark or existing structure unless the residential structure to which it is appurtenant was occupied prior to January 1, 1992, and there are overriding safety or environmental concerns. In such cases, the replacement structure may abut the existing shoreline stabilization structure.
26. Stairs or other permitted structures may be built into a bulkhead, but shall not extend waterward of a bulkhead.