



Department of Land Conservation and Development 635 Capitol Street, Suite 150 Salem, OR 97301-2540 (503) 373-0050 Fax (503) 378-5518 www.lcd.state.or.us

NOTICE OF ADOPTED AMENDMENT

June 20, 2008

- TO: Subscribers to Notice of Adopted Plan or Land Use Regulation Amendments
- FROM. Mara Ulloa, Plan Amendment Program Specialist
- SUBJECT: City of Rivergrove Plan Amendment DLCD File Number 001-08

The Department of Land Conservation and Development (DLCD) received the attached notice of adoption. Copies of the adopted plan amendment are available for review at DLCD offices in Salem, the applicable field office, and at the local government office.

Appeal Procedures*

DLCD ACKNOWLEDGMENT OR DEADLINE TO APPEAL: July 7, 2008

This amendment was not submitted to DLCD for review prior to adoption. Pursuant to OAR 660-18-060, the Director or any person is eligible to appeal this action to LUBA under ORS 197.830 to 197.845.

If you wish to appeal, you must file a notice of intent to appeal with the Land Use Board of Appeals (LUBA) no later than 21 days from the date the decision was mailed to you by the local government. If you have questions, check with the local government to determine the appeal deadline. Copies of the notice of intent to appeal must be served upon the local government and others who received written notice of the final decision from the local government. The notice of intent to appeal must be served and filed in the form and manner prescribed by LUBA, (OAR Chapter 661, Division 10). Please call LUBA at 503-373-1265, if you have questions about appeal procedures.

*<u>NOTE:</u> THE APPEAL DEADLINE IS BASED UPON THE DATE THE DECISION WAS MAILED BY LOCAL GOVERNMENT. A DECISION MAY HAVE BEEN MAILED TO YOU ON A DIFFERENT DATE THAN IT WAS MAILED TO DLCD. AS A RESULT YOUR APPEAL DEADLINE MAY BE EARLIER THAN THE DATE SPECIFIED ABOVE.

Cc: Doug White, DLCD Community Services Specialist Jennifer Donnelly, DLCD Regional Representative Christine Shirley, FEMA Specialist Sheri Richards, City of Rivergrove



	In person electronic mailed
E 2 DLCD	DEPT OF
Notice of Adopti	DN 19 2008
THIS FORM <u>MUST BE MAILED</u> TO DLCD <u>WITHIN 5 WORKING DAYS AFTER THE FINAL DECISI</u> PER ORS 197 610, OAR CHAPTER 660 - DIVISION 18	AND DEVELOPMENT
Jurisdiction: City of Rivergrove, 410022 Date of Adoption: June 9,2008	Local file number: On ACACHIGA none. Date Mailed: June 16, 2008
Was a Notice of Proposed Amendment (Form 1) mail	
Comprehensive Plan Text Amendment	Comprehensive Plan Map Amendment
☑ Land Use Regulation Amendment	Zoning Map Amendment
New Land Use Regulation	Other:
"An ordinance amending the Rive and Ordinance No. 52 and Ordinan emergency." Does the Adoption differ from proposal? Please sele NO	
Plan Map Changed from: X/A	to:
Zone Map Changed from: #/A	to:
Location City-wide	Acres Involved:
Specify Density: Previous. N/A	New:
Applicable statewide planning goals:	
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Was an Exception Adopted? YES X NO	
Did DLCD receive a Notice of Proposed Amendment. 45-days prior to first evidentiary hearing?	🗌 Yes 🛛 No
If no, do the statewide planning goals apply?	Yes X No
If no, did Emergency Circumstances require immedia	te adoption? Yes No

DLCD file No. 001-08 (NOA)

Please list all affected State or Federal Agencies, Local Governments or Special Districts: City of Rivergrove

Local Contact: Sheri Richards Address: 6820 Childs Rd City: Lake Oswegu, OR Zip: 97035

Phone: (523)970-5858 Extension: Fax Number: 573-6248498 E-mail Address: shen_richardseyahod.com

ADOPTION SUBMITTAL REQUIREMENTS

This form must be mailed to DLCD within 5 working days after the final decision

per ORS 197.610, OAR Chapter 660 - Division 18.

1 Send this Form and **TWO Complete Copies** (documents and maps) of the Adopted Amendment to

ATTENTION: PLAN AMENDMENT SPECIALIST DEPARTMENT OF LAND CONSERVATION AND DEVELOPMENT 635 CAPITOL STREET NE, SUITE 150 SALEM, OREGON 97301-2540

- 2. Electronic Submittals: At least one hard copy must be sent by mail or in person, but you may also submit an electronic copy, by either email or FTP. You may connect to this address to FTP proposals and adoptions: webserver.lcd.state.or.us. To obtain our Username and password for FTP, call Mara Ulloa at 503-373-0050 extension 238, or by emailing mara.ulloa@state.or.us.
- 3. <u>Please Note</u>: Adopted materials must be sent to DLCD not later than **FIVE (5) working days** following the date of the final decision on the amendment.
- 4. Submittal of this Notice of Adoption must include the text of the amendment plus adopted findings and supplementary information.
- 5. The deadline to appeal will not be extended if you submit this notice of adoption within five working days of the final decision. Appeals to LUBA may be filed within **TWENTY-ONE (21) days** of the date, the Notice of Adoption is sent to DLCD.
- 6. In addition to sending the Notice of Adoption to DLCD, you must notify persons who participated in the local hearing and requested notice of the final decision.
- Need More Copies? You can now access these forms online at http://www.lcd.state.or.us/. Please print on <u>8-1/2x11 green paper only</u>. You may also call the DLCD Office at (503) 373-0050; or Fax your request to: (503) 378-5518; or Email your request to mara.ulloa@state.or.us ATTENTION: PLAN AMENDMENT SPECIALIST.

http://www.lcd.state.or.us/LCD/forms.shtml

Updated November 27, 2006

ORDINANCE NO. 76-2008

AN ORDINANCE AMENDING THE RIVERGROVE LAND DEVELOPMENT ORDINANCE, AND ORDINANCE NO. 52 AND ORDINANCE NO. 70-2001 AND DECLARING AN EMERGENCY

Submitted to the Rivergrove City Council on	6 - 9-08
Adopted by the Rivergrove City Council on	6-9-08

Halez Daraco Mayor 9-08 6

Date

Sheri Richards, City Recorder

6-9-08

Date

ORDINANCE NO. 76-2008 Page 1 of 3

ORDINANCE NO. 76-2008

AN ORDINANCE AMENDING THE RIVERGROVE LAND DEVELOPMENT ORDINANCE, AND ORDINANCE NO. 52 AND ORDINANCE NO. 70-2001 AND DECLARING AN EMERGENCY

WHEREAS, The legislature of the state of Oregon has delegated the responsibility to local government units to adopt regulations designed to promote public health, safety and general welfare, and

WHEREAS, The risk of flooding, including the risk to human life and property, and the maintenance of the functions and values and flood plains by allowing for the storage and conveyance of stream flows through their natural systems are vitally important to the public health, safety and general welfare, and

WHEREAS, The City has adopted a Flood Damage Prevention Ordinance, Ordinance No. 52, with amendments as set in Ordinance No. 62-98, and

WHEREAS, The City has adopted Ordinance No. 70-2001 to comply with the requirements of Title 3 of Metro's Urban Growth Management Functional Plan, and

WHEREAS, the Federal Emergency Management Agency ("FEMA") has recently updated the Flood Insurance Study (FIS) and Flood Insurance Rate Map ("FIRM") for the areas including the City that changes the floodplain and floodway to more accurately depict those areas and to account for changes, and

WHEREAS, It is in the best interest of the City to adopt the new FEMA Flood Insurance Study and Flood Insurance Rate Map to protect the public health, safety and general welfare, and

WHERAS, an emergency exists that requires the immediate effectiveness of this ordinance is required to protect citizens of Rivergrove,

NOW THEREFORE; The City of Rivergrove ordains as follows:

Section 1: Section 3.2 of Ordinance No. 52 is amended to read as follows:

3.2 BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD

The area of special flood hazard identified by the Federal Insurance Administration in a scientific and engineering report entitled "Flood Insurance Study Clackamas County, Oregon and Incorporated Areas Volume 1 of 3 effective June 17, 2008 FIS Number 41005CV001A," with accompanying Flood Insurance Maps is hereby adopted by reference and declared to be a part of this ordinance. The Flood Insurance Study is on file at the City Recorder's office.

ORDINANCE NO. 76-2008 Page 2 of 3

Section 2: Attachment C to Ordinance No. 54-89 (the Rivergrove Land Development Ordinance) is amended to read as follows:

Section 5.020 Flood Hazard District.

All land development within the 100 year flood boundary as identified in the Flood Insurance Rate Map (FIRM) Panel 0013D Map Number 41005C0013D effective date June 17, 2008shall be within the Flood Hazard District (FHD) and shall be subject to special requirements in addition to the criteria and standards of this ordinance. Land subject to flood hazard is generally indicated on the floodplain map found in the Flood Insurance Study and consists of those areas of the City where hydrological studies have been prepared by the Federal Emergency Management Agency. The FIRM shall be available to public inspection by contacting the City Recorder at 503 624-8498 during regular business hours. All development within the 100 year flood boundary shall follow the provisions of the Flood Damage Prevention Ordinance of the City of Rivergrove (Ord. # 52 and Ord. #70-2001) in addition to the provisions of this ordinance.

Section 3: Section XIV of Ordinance No. 70-2001 is amended as follows:

Section XIV Definitions

* * * * *

Flood Management Areas. All lands contained within the 100 year floodplain and floodway as shown on the Federal Emergency Management Agency Flood Insurance Rate Map Panel 0013D effective date June 17, 2008

* * * * *

Section 4: Emergency Declared.

Because the immediate effectiveness of this ordinance is needed to protect the public health, safety and welfare, an emergency is declared and, in accordance with Section 36 of the Rivergrove City Charter, this ordinance shall be effective immediately upon passage by the Rivergrove City Council.

PDX_DOCS:413859.1 [34762-00100] 06/6/08 10:38 AM

ORDINANCE NO. 76-2008 Page 3 of 3 ORDINANCE # 52

AN ORDINANCE ADOPTING THE MODEL FLOOD DAMAGE PREVENTION ORDINANCE OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

Public Hearing September 21, 1987

Adopted by Rivergrove City Council September 21, 1987

Mayor Neil McFarlane

ATTEST:

.) Schean

City Recorder Vivian Scheans

FLOOD DAMAGE PREVENTION ORDINANCE

SECTION 1.0

STATUTORY AUTHORIZATION, FINDINGS OF FACT, PURPOSE, AND OBJECTIVES

1.1 STATUTORY AUTHORIZATION

The Legislature of the State of Oregon has i _______ delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry. Therefore, the City Council_of Rivergrove, Oregon does ordain as follows:

1.2 FINDINGS OF FACT

- The flood hazard areas of Rivergrove are subject to periodic inundation which results in loss of life and property, health, and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety, and general welfare.
- (2) These flood losses are caused by the cumulative effect of obstructions in areas of special flood hazards which increase flood heights and velocities, and when inadequately anchored, damage uses in other areas. Uses that are inadequately floodproofed, elevated, or otherwise protected from flood damage also contribute to the flood loss.

1.3 STATEMENT OF PURPOSE

It is the purpose of this ordinance to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed:

- (1) To protect human life and health;
- (2) To minimize expenditure of public money and costly flood control projects;
- (3) To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- (4) To minimize prolonged business interruptions;
- (5) To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets, and bridges located in areas of special flood hazard;
- (6) To help maintain a stable tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood blight areas;
- (7) To ensure that potential buyers are notified that property is in an area of special flood hazard; and,
- (8) To ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.

1.4 METHODS OF REDUCING FLOOD LOSSES

In order to accomplish its purposes, this ordinance includes methods and provisions for:

- Restricting or prohibiting uses which are dangerous to health, safety, and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities;
- (2) Requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;
- (3) Controlling the alteration of natural flood plains, stream channels, and natural protective barriers, which help accommodate or channel flood waters;
 (4) Controlling filling grading, dradaing, and other dealers;
- (4) Controlling filling, grading, dredging, and other development which may increase flood damage; and
- (5) Preventing or regulating the construction of flood barriers which will unnaturally divert flood waters or may increase flood hazards in other areas.

SECTION 2.0 DEFINITIONS

Unless specifically defined below, words or phrases used in this ordinance shall be interpreted so as to give them the meaning they have in common usage and to give this ordinance its most reasonable application.

"<u>APPEAL</u>" means a request for a review of the <u>City Council's</u> interpretation of any_t provision of this ordinance or a request for a variance.

<u>"AREA OF SHALLOW FLOODING"</u> means a designated AO or AH Zone on the Flood Insurance Rate Map (FIRM). The base flood depths range from one to three feet; a clearly defined channel does not exist; the path of flooding is unpredictable and indeterminate; and, velocity flow may be evident. AO is characterized as sheet flow and AH indicates ponding.

<u>"AREA OF SPECIAL FLOOD HAZARD</u>" means the land in the flood plain within a community subject to a one percent or greater chance of flooding in any given year. Designation on maps always includes the letters A or V.

<u>"BASE FLOOD</u>" means the flood having a one percent chance of being equalled or exceeded in any given year. Also referred to as the "100-year flood." Designation on maps always includes the letters A or V.

<u>"DEVELOPMENT"</u> means any man-made change to improved or unimproved real estate, including but not 'imited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or Jrilling operations located within the area of special flood hazard.

"FLOOD" or "FLOODING" means a general and temporary condition of partial or complete inundation of normally dry land areas from:

(1) The overflow of inland or tidal waters and/or

a transmission and the

(2) The unusual and rapid accumulation of runoff of surface waters from any source.

<u>"FLOOD INSURANCE RATE MAP (FIRM)</u>" means the official map on which the Federal Insurance Administration has delineated both the areas of special flood hazards and the risk premium zones applicable to the community.

"FLOOD INSURANCE STUDY" means the official report provided by the Federal Insurance Administration that includes flood profiles, the Flood Boundary-Floodway Map, and the water surface elevation of the base flood.

<u>"FLQQDWAY</u>" means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot.

"LOWEST FLOOR" means the lowest floor of the lowest enclosed area (including basement). An unfinished flood resistant enclosure, usable solely for parking of vehicles, building access or storage, in an area other than a basement area, is not considered a building's lowest floor, provided that such enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of this ordinance found at Section 5.2-1(2).

"MANUFACTURED HOME" means a structure, transportable in one or more sections, which is built on a permanent chassis and is designed for use with or without a permanent foundation when connected to the required utilities. For flood plain management purposes the term "manufactured home" also includes park trailers, travel trailers, and other similar vehicles placed on a site for greater than 180 consecutive days. For insurance purposes the term "manufactured home" does not include park trailers, travel trailers, and other similar vehicles.

<u>-MANUFACTURED HOME PARK OR SUBDIVISION</u>" means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

"New Construction" means structures for which the "start of construction" commenced on or after the effective date of this ordinance.

"START OF CONSTRUCTION" includes substantial improvement, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, placement or other improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction of a structure on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundation or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure.

"STRUCTURE" means a walled and roofed building including a gas or liquid storage tank that is principally above ground.

"SUBSTANTIAL IMPROVEMENT" means any repair, reconstruction, or improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure either:

- (1) before the improvement or repair is started, or
- (2) if the structure has been damaged and is being restored, before the damage occurred. For the purposes of this definition "substantial improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure.

The term does not, however, include either:

- any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions, or
- (2) any alteration of a structure listed on the National Register of Historic Places or a State Inventory of Historic Places.

"VARIANCE" means a grant of relief from the requirements of this ordinance which permits construction in a manner that would otherwise be prohibited by this ordinance.

SECTION 3.0 GENERAL PROVISIONS

3.1 LANDS TO WHICH THIS ORDINANCE APPLIES

This ordinance shall apply to all areas of special flood hazards within the jurisdiction of City of Rivergrove

3.2 BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD

The areas of special flood hazard identified by the Federal Insurance Administration in a scientific and engineering report entitled "The Flood Insurance Study for the Rivergrove,," dated <u>August</u> 4, 19_87 with accompanying Flood Insurance Maps is hereby adopted by reference and declared to be a part of this ordinance. The Flood Insurance Study is on file at 4640 S.W. Dogwood Dr.

PENALTIES FOR NONCOMPLIANCE

No structure or land shall hereafter be constructed, located, extended, converted, or altered without full compliance with the terms of this ordinance and other applicable regulations. Violation of the provisions of this ordinance by failure to comply with any of its requirements (including violations of conditions and safeguards established in connection with conditions) shall constitute a misdemeanor. Any person who violates this ordinance or fails to $\sqrt{2}$ comply with any of its requirements shall upon conviction thereof be fined not more than $\frac{5500.00}{100}$ or imprisoned for not more than $\frac{30}{100}$ days, or both, for each violation, and in addition shall pay all costs and expenses involved in the case. Nothing herein contained shall prevent Rivergrove from taking such other lawful action as is necessary to prevent or remedy any violation.

3.4 ABROGATION AND GREATER RESTRICTIONS

This ordinance is not intended to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. However, where this ordinance and another ordinance, easement, covenant, or deed restriction conflict or overlap, whichever imposes the more stringent restrictions shall prevail.

3.5 INTERPRETATION

3.3

In the interpretation and application of this ordinance, all provisions shall be:

- (1) Considered as minimum requirements;
- (2) Liberally construed in favor of the governing body; and,
- (3) Deemed neither to limit nor repeal any other powers granted under State statutes.

3.6 WARNING AND DISCLAIMER OF LIABILITY

The degree of flood protection required by this ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This ordinance does not imply that land outside the areas of special flood hazards or uses permitted within such areas will be free from flooding or flood damages. This ordinance shall not create liability on the part of Rivergrove, any officer or employee thereof, or the Federal Insurance Administration, for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made hereunder.

SECTION 4.0 ADMINISTRATION

4.1 ESTABLISHMENT OF DEVELOPMENT PERMIT

4.1-1 Development Permit Required

A development permit shall be obtained before construction or development begins within any area of special flood hazard established in Section 3.2. The permit shall be for all structures including manufactured homes, as set forth in the "DEFINITIONS", and for all development including fill and other activities, also as set forth in the "DEFINITIONS".

4.1-2 Application for Development Permit

Application for a development permit shall be made on forms furnished by the . City Recorder <u>)</u> and may include but not be limited to; plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, fill, storage of materials, drainage facilities, and the location of the foregoing. Specifically, the following information is required:

- (1) Elevation in relation to mean sea level, of the lowest floor (including basement) of all structures;
- (2) Elevation in relation to mean sea level to which any structure has been floodproofed;
- (3) Certification by a registered professional engineer or architect that the floodproofing methods for any nonresidential structure meet the floodproofing criteria in Section 5.2-2; and
- (4) Description of the extent to which a watercourse will be altered or relocated as a result of proposed development.

4.2 DESIGNATION OF THE PLANNING COMMISSION

The <u>Planning Commission</u> is hereby appointed to administer and implement this ordinance by granting or denying development permit applications in accordance with its provisions.

4.3 DUTIES AND RESPONSIBILITIES OF THE PLANNING COMMISSION

Duties of the Planning Commission shall include, but not be limited to:

4.3-1 <u>Permit Review</u>

- (1) Review all development permits to determine that the permit requirements of this ordinance have been satisfied.
- (2) Review all development permits to determine that all necessary permits have been obtained from those Federal, State, or local governmental agencies from which prior approval is required.
- (3) Review all development permits to determine if the proposed development is located in the floodway. If located in the floodway, assure that the encroachment provisions of Section 5.3(1) are met.

4.3-2 Use of Other Base Flood Data

When base flood elevation data has not been provided in accordance with Section 3.2, BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD, the Planning Commission obtain, review, and reasonably utilize any base flood elevation and floodway data available from a federal, State or other source, in order to administer Sections 5.2, SPECIFIC STANDARDS, and 5.3 FLOODWAYS.

4.3-3 Information to be Obtained and Maintained

- (1) Where base flood elevation data is provided through the Flood Insurance Study or required as in Section 4.3-2, obtain and record the actual elevation (in relation to mean sea level) of the lowest floor (including basement) of all new or substantially improved structures, and whether or not the structure contains a basement.
- (2) For all new or substantially improved floodproofed structures:
 - (i) verify and record the actual elevation (in relation to mean sea level), and
 - (ii) maintain the floodproofing certifications required in Section 4.1(3).
- (3) Maintain for public inspection all records pertaining to the provisions of this ordinance.

4.3-4 Alteration of Watercourses

Dept. of Land Conservation

- Notify adjacent communities and the _ and Development _____ prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Insurance Administration.
- (2) Require that maintenance is provided within the altered or relocated portion of said watercourse so that the flood carrying capacity is not diminished.

4.3-5 Interpretation of FIRM Boundaries

Make interpretations where needed, as to exact location of the boundaries of the areas of special flood hazards (for example, where there appears to be a conflict between a mapped boundary and actual field conditions). The person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in Section 4.4.

4.4 VARIANCE PROCEDURE

4.4-1 Appeal Board

- (1) The City Council as established by Rivergrove shall hear and decide appeals and requests for variances from the requirements of this ordinance.
- (2) The City Council shall hear and decide appeals when it is alleged there is an error in any requirement, decision, or determination made by the Planning Commission in the enforcement or administration of this ordinance.
- (3) Those aggrieved by the decision of the City Council, or any taxpayer, may appeal such decision to the Land Use Board of Appeals, as provided in State taw.
- (4) In passing upon such applications, the City Council shall consider all technical evaluations, all relevant factors, standards specified in other sections of this ordinance, and:
 - (i) the danger that materials may be swept onto other lands to the injury of others;
 - (ii) the danger to life and property due to flooding or erosion damage;
 - (iii) the susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner;
 - (iv) the importance of the services provide by the proposed facility to the community;
 - (v) the necessity to the facility of a waterfront location, where applicable;
 - (vi) the availability of alternative locations for the proposed use which are not subject to flooding or erosion damage;
 - (vii) the compatibility of the proposed use with existing and anticipated development;
 - (viii) the relationship of the proposed use to the comprehensive plan and flood plain management program for that area;
 - (ix) the safety of access to the property in times of flood for ordinary and emergency vehicles;
 - (x) the expected heights, velocity, duration, rate of rise, and sediment transport of the flood waters and the effects of wave action, if applicable, expected at the site; and,
 - (xi) the costs of providing governmental services during and after flood conditions, including maintenance and repair of public utilities and facilities such as sewer, gas, electrical, and water systems, and streets and bridges.
- (5) Upon consideration of the factors of Section 4.4-1(4) and the purposes of this ordinance, the City Council may attach such conditions to the granting of variances as it deems necessary to further the purposes of this ordinance.
- (6) The <u>City Recorder</u> shall maintain the records of all appeal actions and report any variances to the Federal Insurance Administration upon request.

4.4-2 <u>Conditions for Variances</u>

(1) Generally, the only condition under which a variance from the elevation standard may be issued is for new construction and substantial improvements to be erected on a lot of one-half acre or less in size contiguous to and surrounded by lots with existing structures constructed below the base flood level, providing items (i-xi) in Section 4.4-1(4) have been fully considered. As the lot size increases the technical justification required for issuing the variance increases.

- (2) Variances may be issued for the reconstruction, rehabilitation, or restoration of structures listed on the National Register of Historic Places or the State Inventory of Historic Places, without regard to the procedures set forth in this section.
- (3) Variances shall not be issued within a designated floodway if any increase in flood levels during the base flood discharge would result.
- (4) Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.
- (5) Variances shall only be issued upon:
 - (i) a showing of good and sufficient cause;
 - (ii) a determination that failure to grant the variance would result in exceptional hardship to the applicant;
 - (iii) a determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisances, cause fraud on or victimization of the public as identified in Section 4.1-4(4), or conflict with existing local laws or ordinances.
- (6) Variances as interpreted in the National Flood Insurance Program are based on the general zoning law principle that they pertain to a physical piece of property; they are not personal in nature and do not pertain to the structure, its inhabitants, economic or financial circumstances. They primarily address small lots in densly populated residential neighborhoods. As such, variances from the flood elevations should be quite rare.
- (7) Variances may be issued for nonresidential buildings in very limited circumstances to allow a lesser degree of floodproofing than watertight or dry-floodproofing, where it can be determined that such action will have low damage potential, complies with all other variance criteria except 4.4-2(1), and otherwise complies with Sections 5.1-1 and 5.1-2 of the GENERAL STANDARDS.
- (8) Any applicant to whom a variance is granted shall be given written notice that the structure will be permitted to be built with a lowest floor elevation below the base flood elevation and that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation.

SECTION 5.0 PROVISIONS FOR FLOOD HAZARD REDUCTION

5.1 GENERAL STANDARDS

In all areas of special flood hazards, the following standards are required:

5.1-1 Anchoring

- (1) All new construction and substantial improvements shall be anchored to prevent flotation, collapse, or lateral movement of the structure.
- (2) All manufactured homes must likewise be anchored to prevent flotation, collapse or lateral movement, and shall be installed using methods and practices that minimize flood damage. Anchoring methods may include, but are not limited to, use of over-the-top or frame ties to ground anchors (Reference FEMA's "Manufactured Home Installation in Flood Hazard Areas" guidebook for additional techniques).

5.1-2 Construction Materials and Methods

- (1) All new construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.
- (2) All new construction and substantial improvements shall be constructed using methods and practices that minimize flood damage.
- (3) Electrical, heating, ventilation, plumbing, and air-conditioning equipment and other service facilities shall be designed and/or otherwise elevated or located so as to prevent water from entering or accumulating within the components during conditions of flooding.

5.1-3 Utilities

- (1) All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;
- (2) New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharge from the systems into flood waters; and,
- (3) On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.

5.1-4 Subdivision Proposals

- (1) All subdivision proposals shall be consistent with the need to minimize flood damage;
- (2) All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage;
- (3) All subdivision proposals shall have adequate drainage provided to reduce exposure to flood damage; and,
- (4) Where base flood elevation data has not been provided or is not available from another authoritative source, it shall be generated for subdivision proposals and other proposed developments which contain at least 50 lots or 5 acres (whichever is less).

5.1-5 Review of Building Permits

Where elevation data is not available either through the Flood Insurance Study or from another authoritative source (Section 4.3-2), Applications for building permits shall be reviewed to assure that proposed construction will be reasonably safe from flooding. The test of reasonableness is a local judgment and includes use of historical data, high water marks, photographs of past flooding, etc., where available. Failure to elevate at least two feet above grade in these zones may result in higher insurance rates.

5.2 SPECIFIC STANDARDS

In all areas of special flood hazards where base flood elevation data has been provided as set forth in Section 3.2, BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD or Section 4.3-2, Use of Other Base Flood Data, the following provisions are required:

5.2-1 Residential Construction

- (1) New construction and substantial improvement of any residential structure shall have the lowest floor, including basement, elevated to or above base flood elevation.
- (2) Fully enclosed areas below the lowest floor that are subject to flooding are prohibited, or shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs for meeting this requirement must either be certified by a registered professional engineer or architect or must meet or exceed the following minimum criteria:
 - (i) A minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided.
 - (ii) The bottom of all openings shall be no higher than one foot above grade.
 - (iii) Openings may be equipped with screens, louvers, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.

5.2-2 Nonresidential Construction

New construction and substantial improvement of any commercial, industrial or other nonresidential structure shall either have the lowest floor, including basement, elevated to the level of the base flood elevation; or, together with attendant utility and sanitary facilities, shall:

- (1) be floodproofed so that below the base flood level the structure is watertight with walls substantially impermeable to the passage of water;
- have structural components capable of resisting hydrostatic and hydrodynamic loads and effects of buoyancy;
- (3) be certified by a registered professional engineer or architect that the design and methods of construction are in accordance with accepted standards of practice for meeting provisions of this subsection based on their development and/or review of the structural design, specifications and plans. Such certifications shall be provided to the official as set forth in Section 4.3-3(2)
- (4) Nonresidential structures that are elevated, not floodproofed, must meet the same standards for space below the lowest floor as described in 5.2-1(2).
- (5) Applicants floodproofing nonresidential buildings shall be notified that flood insurance premiums will be based on rates that are one foot below the floodproofed level (e.g. a building constructed to the base flood level will be rated as one foot below that level).

5.2-3 Manufactured Homes

All manufactured homes to be placed or substantially improved within Zones A1-30, AH, and AE shall be elevated on a permanent foundation such that the lowest floor of the manufactured home is at or above the base flood elevation and be securely anchored to an adequately anchored foundation system in accordance with the provisions of subsection 5.1-1(2).

5.3 FLOODWAYS

Located within areas of special flood hazard established in Section 3.2 are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of flood waters which carry debris, potential projectiles, and erosion potential, the following provisions apply:

- Prohibit encroachments, including fill, new construction, substantial improvments, and other development unless certification by a registered professional engineer or architect is provided demonstrating that encroachments shall not result in any increase in flood levels during the occurrence of the base flood discharge.
- (2) If Section 5.3(1) is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Section 5.0, PROVISIONS FOR FLOOD HAZARD REDUCTION.

ORDINANCE # 53

AN ORDINANCE AMENDING THE MODEL FLOOD DAMAGE PREVENTION ORDINANCE (Ord # 52) AND ADOPTING STANDARDS FOR SHALLOW FLOODING AREAS (AO ZONES

WHEREAS the FIRM has AO zones depicting shallow flooding; and

WHEREAS the following section must be added in order to address the depth designations in these zones, vs. the base flood elevations that are provided in other areas of detailed study,

NOW THEREFORE THE CITY OF RIVERGROVE DOES ORDAIN AS FOLLOWS:

5.1 STANDARDS FOR SHALLOW FLOODING AREAS (AO ZONES)

Shallow flooding areas appear on FIRM's as AO zones with depth designations. The base flood depths in these zones range from 1 to 3 feet where a clearly defined channel does not exist, or where the path of flooding is unpredictable and where velocity flow may be evident. Such flooding is usually characteried as sheet flow. In these areas, the following provisions apply:

- (1)New construction and substantial improvments of of residential structures within AO zones shall have the lowest floor (including basement) elevated above the highest adjacent grade of the building site, to or above the depth number specified on the FIRM (at least two feet if no depth number is specified).
- (2)New constuction and substantial improvements of nonresidential structures within AO zones shall either:
 - (i) have the lowest floor (including basement) elevated above the highest adjacent grade of the building site, to or above the depth number specified on the FIRM (at least two feet if no depth is specified); or
 - (ii)together with attendant utility and sanitary facilities, be completely flood proofed to or above that level so that any space below that level is watertight with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of bouyancy. If this method is used, compliance shall be certified by a registered professional engirnne or architect as in section 5.2-?(3).
- (3)Require adequate drainage paths around structures on slopes to quide floodwaters around and away from proposed structures.

Public Hearing ápril 11, 1924 Adopted ápril 11, 1988

ADOPTED BY the Rivergrove City Council this 9 day of JUNE, 1980. MAYOR

ATTEST:

marken 01

CITY RECORDER

ORDINANCE # 70-2001

AN ORDINANCE ADOPTING AMENDMENTS TO THE RIVERGROVE LAND DEVELOPMENT AND FLOOD DAMAGE PREVENTION ORDINANCES AND THE RIVERGROVE COMPREHENSIVE PLAN * IN ORDER TO COMPLY WITH THE REQUIREMENTS OF METRO'S URBAN GROWTH MANAGEMENT FUNCTIONAL PLAN.

Planning Commission Public Hearings:

08/10/2000, 09/07/2000

09/11/2000, 09/28/2000

10/16/2000

City Council Public Hearings:

Adopted by Rivergrove City Council:

12/10/2001 Mayor Larry Barrett 12-10-01

Date

Attest:

City Recorder Mike Collmeyer

12,

Date

Ordinance No. 70-2001

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Ordinance No. 70-2001

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December 10, 2001

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ORDINANCE # 70-2001

AN ORDINANCE ADOPTING AMENDMENTS TO THE RIVERGROVE LAND DEVELOPMENT AND FLOOD DAMAGE PREVENTION ORDINANCES AND THE RIVERGROVE COMPREHENSIVE PLAN IN ORDER TO COMPLY WITH THE REQUIREMENTS OF METRO'S URBAN GROWTH MANAGEMENT FUNCTIONAL PLAN.

Statutory Authorization

The legislature of the State of Oregon has delegated the responsibility to local governmental units to adopt regulations designed to promote public health, safety and general welfare of its citizenry. Therefore, the City of Rivergrove ordains as follows:

Water Quality and Flood Management Area Ordinance

Section I. Intent

The purpose of this ordinance is:

- A. To protect and improve water quality, to support the designated beneficial water uses and to protect the functions and values of existing and newly established Water Quality Resource Areas, by:
 - 1. Providing and improving the vegetated corridor separating Protected Water Features from development;
 - 2. Maintaining or reducing stream temperatures;
 - 3. Maintaining natural stream corridors;
 - 4. Minimizing erosion, nutrient and pollutant loading into water;
 - 5. Providing filtration, infiltration and natural water purification; and
 - 6. Stabilizing slopes to prevent landslides contributing to the sedimentation of protected water features.
- B. To protect and maintain Flood Management Areas, which provide for:
 - 1. Protection of life and property from dangers associated with flooding;
 - 2. The storage and conveyance of stream flows through existing and natural conveyance systems, flood storage, reduction of flood velocities, reduction of flood peak flows and reduction of wind and wave impacts;
 - 3. Maintenance of water quality by reducing and sorting sediment loads, processing chemical and organic wastes and reducing nutrients;
 - 4. Recharging, storage and discharging of groundwater; and
 - 5. Plant and animal habitat, and the support of riparian ecosystems.
- C. To establish overlay zones, Water Quality Resource Areas and Flood Management Areas, which operate contemporaneously with base zones and implement the performance standards found herein.

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Section II. Applicability

A. This ordinance applies to: Ordinance No. 70-2001

- 1. Development in Water Quality Resource Areas and Flood Management Areas.
- 2. Development that may cause visible or measurable erosion on any property within the City of Rivergrove.
- B. This ordinance does not apply to work necessary to protect, repair, maintain, or replace existing structures, utility facilities, roadways, driveways, accessory uses and exterior * improvements in response to emergencies provided that after the emergency has passed, adverse impacts are mitigated in accordance with Table 2 standards for restoring marginal existing vegetated corridors.

Note: Prior to doing any emergency work in a Water Quality Resource Area it is advisable to check with other regulatory agencies, including but not limited to, the U. S. Army Corp of Engineers, the National Marine Fishery Service, the Oregon Division of State Lands, Oregon Fish & Wildlife Department, the Oregon Department of Environmental Quality and Clackamas County.

Section III. Administration

- A. The provisions of this ordinance shall be applied as follows:
 - 1. The text provisions of this ordinance, including the definitions, shall determine whether an application for development is subject to the requirements of this ordinance.
 - 2. Existing map information on file with the City shall be used as a reference to identify areas within a Water Quality Resource Area or Flood Management Area.
 - 3. Applications shall include a delineation of any Water Quality Resource Areas and Flood Management Areas on the subject property.
 - 4. The map information provided shall be interpreted by the City to define and refine the exact location of the boundaries of Water Quality Resource Areas and Flood Management Areas.
- B. A development permit shall be obtained before development begins within any Water Quality Resource Area and/or Flood Management Area.
- C. The Planning Commission is hereby appointed to administer and implement this ordinance. Duties of the Planning Commission shall include, but not be limited to:
 - 1. Permit review including:
 - a. Review of all development permit applications to determine that the requirements of this ordinance have been satisfied;
 - b. Review all development permit applications to determine that all necessary permits have been obtained from those Federal, State, or local governmental agencies from which prior approval is required;
 - 2. Review and maintenance of:
 - a. Information accepted by the Planning Commission as delineating Protected Water Features, Water Quality Resource Areas and Flood Management Areas;
 - b. Information showing the actual elevation of the lowest floor of all new or substantially improved structures, and whether or not the structure contains a basement;
 - 3. Interpretation of this ordinance.

Section IV. Water Quality Resource Areas

- A. This ordinance establishes a Water Quality Resource Area Overlay Zone.
- B. The Water Quality Resource Area is the vegetated corridor and the Protected Water Feature. The width of the vegetated corridor is specified in the Table One. At least three slope measurements along the water feature, at no more than 100-foot increments, shall be made for each property for which development is proposed. Depending on the width of the property, the width of the vegetated corridor will vary.

T-LL 1

	Ta	ble 1	I
Protected Water Feature Type (see definitions)	Slope Adjacent to Protected Water Feature	Starting Point for Measurements from Water Feature	Width of Vegetated Corridor
Primary Protected Water Features ¹	< 25%	 Edge of bankful stage or 2-year storm level; Delineated edge of wetland 	50 feet
Primary Protected Water Features ¹	>25% for 150 feet or more ⁵	 Edge of bankful stage or 2-year storm level; Delineated edge of wetland 	200 feet
Primary Protected Water Features ¹	>25% for less than 150 feet ⁵	 Edge of bankful stage or 2-year storm level; Delineated edge of wetland 	Distance from starting point of measurement to top of ravine (break in >25% slope) ³ , plus 50 feet. ⁴

¹ Primary Protected Water Features. See definition of Protected Water Feature.

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² Secondary Protected Water Features. See definition of Protected Water Feature.

³ Where the *Protected Water Feature* is confined by a ravine or gully, the top of ravine is the break in the > 25% slope

⁽see slope measurement in Appendix).

⁴ A maximum reduction of 25 feet may be permitted in the width of *vegetated corridor* beyond the slope break if a geotechnical report demonstrates that slope is stable. To establish the width of the *vegetated corridor*, slope should

be measured in 25-foot increments away from the water feature until slope is less than 25% (top of ravine). 5 *Vegetated corridors* in excess of 50-feet for primary protected features, or in excess of 15-feet for secondary protected

Secondary	< 25%	· Edge of bankful	15 feet
Protected Water		stage or 2-year storm	
Features ²		level;	
		· Delineated edge	
		of wetland	*
Secondary	> 25%	· Edge of bankful	50 feet
Protected Water		stage or 2-year storm	
Features ²		level;	
		· Delineated edge	
·····		of wetland	

- C. Uses Permitted Outright
 - 1 Stream, wetland, riparian and upland enhancement or restoration projects; farming practices as defined in ORS 30.930 and farm uses, excluding buildings and structures, as defined in ORS 215.203.
 - 2. Placement of structures that do not require a grading or building permit.
 - 3. Routine repair and maintenance of existing structures, roadways, driveways, utility facilities, accessory uses and other development.
 - 4. Repair, replacement or improvement of utility facilities where:
 - a. The disturbed portion of the Water Quality Resource Area is restored; and
 - b. Non-native vegetation is removed from the disturbed portion of the Water Quality Resource Area and replaced with vegetation from the Rivergrove Native Plant List.
 - 5. Additions to and/or alterations, rehabilitation, or replacement of existing structures that do not increase the existing structural footprint in the Water Quality Resource Area where:
 - a. The disturbed portion of the Water Quality Resource Area is restored; and
 - b. Non-native vegetation is removed from the disturbed portion of the Water Quality Resource Area and replaced with vegetation from the Rivergrove Native Plant List.
 - 6. Measures to remove or abate nuisances, or any other violation of State statute, administrative agency rule or city or county ordinance where:

features, apply on steep slopes only in the uphill direction from the Protected Water Feature

⁶ Suggested method to determine two year recurrent flood elevations: obtain two year recurrent flood elevations from City of Tualatin at the Railroad Bridge Flood Gate, or, preferably, from the Lake Corp., at the head gate of the

channel for Lake Oswego Canal, and extrapolate using FEMA flood-plain elevations.

- a. The method selected to remove or abate the nuisance or other violation will avoid or minimize adverse impacts to the Water Quality Resource Area as compared to other alternatives;
- b. The disturbed portion of the Water Quality Resource Area is restored; and
- c. Non-native vegetation is removed from the disturbed portion of the Water Quality Resource Area and replaced with vegetation from the Rivergrove Native Plant List.
- 7. New public utility facilities and stormwater pre-treatment facilities where:
 - a. No reasonable alternative to the requested development exists that will not disturb the Water Quality Resource Area;
 - b. An explanation acceptable to the City of the rationale behind choosing the alternative selected, including how adverse impacts will be avoided and/or minimized is advanced;
 - c. To the extent reasonable, existing vegetation shall be protected and left in place. Work areas shall be carefully located and marked to reduce potential damage to the Water Quality Resource Area. Trees in the Water Quality Resource Area shall not be used as anchors for stabilizing construction equipment;
 - d. The disturbed portion of the Water Quality Resource Area is restored; and
 - e. Non-native vegetation is removed from the disturbed portion of the Water Quality Resource Area and replaced with vegetation from the Rivergrove Native Plant List.
- 8. The continued maintenance and replanting of established gardens and lawns.
- D. Conditional Uses

The following uses are allowed in the Water Quality Resource Area Overlay Zone subject to compliance with the Application Requirements and Development Standards of subsections F and G:

- 1. Any use allowed in the base zone, other than those listed in subsection C above.
- 2. Roads and walkways to provide access to Protected Water Features or necessary ingress and egress across Water Quality Resource Areas.
- 3. Private utility facilities.
- 4. Walkways and bike paths. (Subsection G.5).
- 5. New private stormwater pre-treatment facilities. (Subsection G.6).
- 6. Widening an existing road adjacent to or running parallel to a Water Quality Resource Area.
- 7. Additions to and/or alterations, rehabilitation or replacement of existing structures, roadways, accessory uses and development that increase the structural footprint within the Water Quality Resource Area consistent with Subsection G.7.

E. Prohibited Uses

- 1. Any new structures and/or development, construction activities, gardens, and lawns, other than those listed in Subsection C and D; dumping of any materials of any kind.
- 2. Uncontained areas of hazardous materials as defined by the Department of Environmental Quality.
- 3. Planting of any species from the Metro Prohibited Plant List or the Metro Nuisance Plant List.

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F. Application Requirements

Applications for Conditional Uses in the Water Quality Resource Area Overlay Zone must provide the following information in addition to the information required for the base zone:

- 1. Plans drawn to scale showing the nature, location, dimensions, and elevations of the area in question, existing and proposed structures, fill, storage of materials, drainage facilities.
- 2. A topographic map of the site at vertical contour intervals of one foot or less showing a delineation of the Water Quality Resource Area as described in Table 1.
- 3. The location of all existing natural features including, but not limit to, any trees of a caliper greater than six (6) inches diameter at a height of four feet, the natural drainage on the site, and any springs or seeps therein.
- 4. Location of wetlands.
- 5. An inventory and location of existing debris and noxious materials as defined by the Department of Environmental Quality.
- 6. An assessment of the existing condition of the Water Quality Resource Area in accordance with Table 2.
- 7. An inventory of vegetation, including percentage ground and canopy coverage.
- 8. Alternatives analysis demonstrating that:
 - a. No practicable alternatives to the requested development exist that will not disturb the Water Quality Resource Area; and
 - b. Development in the Water Quality Resource Area has been limited to the area necessary to allow for the proposed use; and
 - c. The Water Quality Resource Area can be restored to an equal or better condition in accordance with Table 2; and
 - d. It will be consistent with any Water Quality Resource Area Mitigation Plan already in place.
 - e. An explanation of the rationale behind choosing the alternative selected, including how adverse impacts to resource areas will be avoided and/or minimized.
 - f. For applications seeking an addition to and/or alteration, rehabilitation or replacement of existing structures, roadways, accessory uses and development that will increase the structural footprint within the Water Quality Resource Area:
 - 1. Demonstrate that no reasonably practicable alternative design or method of development exists that would have a lesser impact on the Water Quality Resource Area than the one proposed; and
 - 2. If no such reasonably practicable alternative design or method of development exists, the project should be conditioned to limit its disturbance and impact on the Water Quality Resource Area to the minimum extent necessary to achieve the proposed addition, alteration, restoration, replacement or rehabilitation; and
 - 3. Provide mitigation to ensure that impacts to the functions and values of the Water Quality Resource Area will be mitigated or restored to the extent practicable.
- 9. A Water Quality Resource Area Mitigation Plan shall contain the following information:
 - a. A description of adverse impacts that will be caused as a result of development.
 - b. An explanation of how adverse impacts to resource areas will be avoided, minimized, and/or mitigated in accordance with, but not limited to, Table 2.

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- c. A list of all responsible parties including, but not limited to, the owner, applicant, contractor or other persons responsible for work on the development site.
- d. A map showing where the specific mitigation activities will occur.
- e. An implementation schedule, including timeline for construction, mitigation, mitigation maintenance, monitoring, reporting and a contingency plan. All instream work in fish-bearing streams shall be done in accordance with the Oregon Department of Fish and Wildlife in-stream timing schedule.
- 10. Other items deemed necessary and requested by the Planning Commission.

G. Development Standards

Applications for Conditional Uses in the Water Quality Resource Area Overlay Zone shall satisfy the following standards:

- 1. The Water Quality Resource Area shall be restored and maintained in accordance with the mitigation plan and the specifications in Table 2.
- 2. To the extent practicable, existing vegetation shall be protected and left in place. Work areas shall be carefully located and marked to reduce potential damage to the Water Quality Resource Area. Trees in the Water Quality Resource Area shall not be used as anchors for stabilizing construction equipment.
- 3. Where existing vegetation has been removed, or the original land contours disturbed, the site shall be revegetated, and the vegetation shall be established as soon as practicable. Nuisance plants, as identified in the Rivergrove Native Plant List, may be removed at any time. Interim erosion control measures such as mulching shall be used to avoid erosion on bare areas. Nuisance vegetation shall be replaced with native vegetation by the next growing season.
- Prior to construction, the Water Quality Resource Area shall be flagged, fenced or otherwise marked and shall remain undisturbed except as allowed in Subsections C and D. Such markings shall be maintained until construction is complete.
- 5. Public walkways, boardwalks and bike paths:
 - a. A walkway or bike path shall be unpaved and not be constructed closer than 10 feet from the boundary of the Protected Water Feature. Walkways and bike paths shall be constructed so as to minimize disturbance to existing vegetation. Where practicable, a maximum of 10 percent of the trail may be within 30 feet of the Protected Water Feature.
 - b. A walkway or bike path shall not exceed 10 feet in width.
 - c. A raised boardwalk may cross a Protected Water Feature if it serves the interest of the public.
- 6. Stormwater pre-treatment facilities:
 - a. The stormwater pre-treatment facility may only encroach a maximum of 25 feet into the

outside boundary of the Water Quality Resource Area of a primary water feature; and

- b. The area of encroachment must be replaced by adding an equal area to the Water Quality Resource Area on the subject property.
- 7. Additions to and/or alterations, rehabilitation and replacement of lawful structures that increase the structural footprint:

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- a. For existing structures, roadways, driveways, accessory uses and development which are nonconforming, this ordinance shall apply in addition to the nonconforming use regulations of the city zoning ordinance.
- b. Additions, alterations, rehabilitation or replacement of existing structures, roadways,

driveways, accessory uses and development shall not encroach closer to the Protected Water Feature than the existing structures, roadways, driveways, accessory uses and development.

- 8. Off-site Mitigation:
 - a. Where the alternatives analysis demonstrates that there are no practicable alternatives for mitigation on site, off-site mitigation shall be located as follows:
 - 1. As close to the development as is practicable above the confluence of the next downstream tributary, or if this is not practicable;
 - 2. Within the watershed where the development will take place or as otherwise specified by the city or county in an approved Wetland Mitigation Bank.
 - b. In order to ensure that the mitigation area will be protected in perpetuity, proof of placement of a conservation easement or other means preserving the restriction on the property where the mitigation is to occur is required.

WATER QUALITY RESOURCE AREA REQUIREMENTS			
EXISTING CONDITION OF	SUGGESTIONS IF WATER	REQUIREMENTS IF WATER	
WATER QUALITY	QUALITY RESOURCE	QUALITY RESOURCE AREA IS	
RESOURCE AREA	AREA REMAINS	DISTURBED DURING	
	UNDISTURBED DURING	CONSTRUCTION	
	CONSTRUCTION		
Good Existing Corridor :	1. Obtain certification by a	1. Obtain certification by a	
Combination of trees, shrubs	Registered professional	Registered professional	
and	engineer, landscape architect,	engineer, landscape architect,	
groundcover is 80% present,	or biologist or other person	or biologist or other person	
and 90% or greater of said	trained or certified in riparian or	trained or certified in riparian or	
surface coverage is native	wetland delineation describing	wetland delineation describing the	
vegetation, and there is more	the condition of the vegetated	condition of the vegetated corridor,	
than 50% tree canopy coverage	corridor.	specifically addressing the areas	
in the vegetated corridor.		proposed to be disturbed and setting	
	2. Inventory and remove debris	forth a plan for mitigating water	
	and noxious materials.	quality impacts related to the	
		development, including: sediments,	
×.		temperature and nutrients, sediment	
		control, temperature control or	
ii.		addressing any other condition that	
		may have caused the Protected	
		Water Feature to be listed on DEQ's	
		303 (d) list.	
		2. Inventory and remove debris and	
		noxious vegetation and materials.	
		3. Re-vegetate disturbed areas and	
		mitigation areas with native	
		vegetation to restore the	
		groundcover and canopy condition	
		to that found in a Good Corridor	
		pursuant to an approved mitigation	
		plan.	
		F	
Marginal Existing Vegetated	1 and 2 above, and	1 and 2 above, and	
Corridor :			
Combination of trees, shrubs	3. Vegetate bare areas with	4. Re-vegetate disturbed areas and	
and	Native Vegetation to enhance	mitigation areas with native	
groundcover are less than 80%	groundcover and canopy	vegetation to enhance the	
present, or less than 90% of said	condition to that found in a	groundcover and canopy condition	
surface coverage is native	Good Corridor.	to that found in a Good Corridor	
-		pursuant to an approved mitigation	
vegetation, or less than 50%		L'Entre in the second second	

Table 2	2	
WATER OUALITY RESOURCE	AREA REQUIREMENTS	

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canopy coverage in the vegetated corridor.	4. Remove non-native species and re-vegetate with Native Vegetation to enhance groundcover and canopy condition to that found in a Good Corridor.	plan. Re-vegetation must occur during the next planting season following site disturbance. Annual replacement of plants that do not survive is required during the life of the mitigation plan. Seeding may be required prior to establishing plants for site stabilization.
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Table 2 Continued WATER QUALITY RESOURCE AREA_REQUIREMENTS CONTINUED			
EXISTING CONDITION OF WATER QUALITY RESOURCE	SUGGESTIONS IF WATER QUALITY RESOURCE AREA	REQUIREMENTS IF WATER QUALITY RESOURCE	
AREA	REMAINS UNDISTURBED DURING CONSTRUCTION	AREA IS DISTURBED DURING CONSTRUCTION	
Degraded Existing Vegetated <u>Corridor</u> : Combination of trees, shrubs and groundcover are less than 70% present, or less than 70% of said surface coverage is native vegetation, or less than 25% canopy coverage in the vegetated corridor.	 and 2 above, and Vegetate bare areas with plantings from approved Native Plant List to enhance groundcover and canopy to that found in a Marginal or Good Corridor. Remove non-native species and re-vegetate with planting from approved Native Plants List to enhance groundcover and canopy to that found in a Marginal or Good Corridor. 	 and 2 above, and Re-vegetate disturbed areas and mitigation areas with native vegetation to enhance the groundcover and canopy condition to that found in a Marginal Corridor pursuant to an approved mitigation plan. Re-vegetation must occur during the next planting season following site disturbance. Annual replacement of plants that do not survive is required during the life of the mitigation plan. Seeding may be required prior to establishing plants for site stabilization. Removal of invasive non-native species within the disturbed and mitigation areas is required. 	
Note: The middle schure to:			

Note: The middle column, being italicized, indicates that it is an option for consideration by the applicant.

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Section V. Flood Management

- A. This ordinance establishes a Flood Management Area Overlay Zone. The standards set forth herein apply to the Flood Management Areas in addition to other local, state or federal restrictions governing floodplains or flood hazard areas.
- B. Flood Management Areas include land contained within the 100-year floodplain and floodway as shown on the Federal Emergency Management Agency Flood Insurance maps.
- C. Uses Permitted Outright:
 - 1. Excavation and fill required to plant any new trees or vegetation.
 - 2. Restoration or enhancement of floodplains, riparian areas, wetland, upland and streams that meet federal and state standards,
- D. Conditional Uses:

All uses allowed in the base zone or existing flood hazard overlay zone are allowed in the Flood

Management Overlay Zone subject to compliance with the Development Standards herein.

- E. Prohibited Uses:
 - 1. Any use prohibited in the base zone or existing flood hazard overlay zone.
 - 2. Uncontained areas of hazardous materials as defined by the Department of Environmental Quality.
- F. Application Requirements

Applications for a development permit within any Flood Management Area Overlay Zone shall

include, in addition to the items specified base zone:

- 1. Plans drawn to scale showing the nature, location, dimensions, and elevations of the area in question, existing and proposed structures, fill, storage of materials, drainage facilities;
- 2. Elevation in relation to mean sea level, of the lowest floor (including basement) of all structures;
- 3. Elevation in relation to mean sea level to which any structure has been floodproofed;
- 4. Demonstration that the plans meet the floodproofing criteria herein; and
- 5. Demonstration of how the development will impact flood storage capacities, watercourses and their velocities.
- 6. Other items deemed necessary and requested by the Planning Commission.

G. Development Standards

All development, excavation and fill in the floodplain shall conform to the following standards:

- 1. No net fill in any floodplain is allowed. All fill placed in a floodplain shall be balanced with at least an equal amount of soil material removal.
- 2. Excavation areas shall not exceed fill areas by more than 50 percent of the square footage.
- 3. Any excavation below the 10 year flood elevation for the property shall not count toward compensating for fill.
- 4. Excavation to balance a fill shall be located on the same parcel as the fill unless it is not reasonable or practicable to do so. In such cases, the excavation shall be located in the same drainage basin and as close as possible to the fill site, so long as the proposed

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excavation and fill will not increase flood impacts for surrounding properties as determined through hydrologic and hydraulic analysis.

- 5. For excavated areas identified by the city or county to remain dry in the summer, such as parks or mowed areas, the lowest elevation of the excavated area shall be at least 6 inches above the winter "low water" elevation, and sloped at a minimum of two percent towards the Protected Water Feature. One percent slopes will be allowed in smaller areas.
- 6. For excavated areas identified by the city or county to remain wet in the summer, such as a constructed wetland, the grade shall be designed not to drain into the Protected Water Feature.
- 7. Minimum finished floor elevations must be at least one foot above the design flood elevation for new habitable structures in the Flood Area.
- 8. Short-term parking in the floodplain may be located at an elevation of no more than one foot below the ten-year floodplain so long as the parking facilities do not occur in a Water Quality Resource Area. Long-term parking in the floodplain may be located at an elevation of no more than one foot below the 100-year floodplain so long as the parking facilities do not occur in a Water Quality Resource Area.
- 9. Temporary fills permitted during construction shall be removed.
- 10. New culverts, stream crossings and transportation projects shall be designed as balanced cut and fill projects or designed not to significantly raise the design flood elevation. Such projects shall be designed to minimize the area of fill in Flood Management Areas and to minimize erosive velocities. Stream crossings shall be as close to perpendicular to the stream as practicable. Bridges shall be used instead of culverts wherever practicable.
- 11. Excavation and fill required for the construction of detention facilities or structures, and other facilities, such as levees, specifically shall be designed to reduce or mitigate flood impacts and improve water quality. Levees shall not be used to create vacant buildable lands.
- 12. Venting
 - a. Fully enclosed areas below the lowest floor that are subject to flooding are prohibited, or shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of flood waters. Designs for meeting this requirement must either be certified by a registered professional engineer or architect or must meet or exceed the following minimum criteria:
 - (i) A minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided.
 - (ii) The bottom of all openings shall be no higher than one foot above grade.
 - (iii) Openings may be equipped with screens, louvers or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.

13. Anchoring

a. All new construction and substantial improvements shall be anchored to prevent flotation, collapse, or lateral movement of the structure.

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b. All manufactured homes must likewise be anchored to prevent flotation, collapse or lateral movement, and shall be installed using methods and practices that minimize load damage. Anchoring methods may include, but are not limited to, use of overthe-*

top or frame ties to ground anchors.

- 14. Construction Materials and Methods
 - a. All new construction and substantial improvements lying below the 100-year flood elevation shall be constructed with materials and utility equipment resistant to flood damage.
 - b. All new construction and substantial improvements shall be constructed using methods

and practices that minimize flood damage.

c. Electrical, heating, ventilation, plumbing, and air-conditioning equipment and other service facilities shall be designed and/or otherwise elevated or located so as to prevent water from entering or accumulating within the components during conditions

of flooding.

- 15. Utilities
 - a. All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;
 - b. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharge from the system into flood waters; and,
 - c. On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.
- 16. Subdivision Proposals
 - a. All subdivision proposals shall be consistent with the need to minimize flood damage:
 - b. All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage;
 - c. All subdivision proposals shall have adequate drainage provided to reduce exposure to

flood damage.

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Section VI. Subdivisions and Partitions

- A. The purpose of this section is to amend the city regulations governing land divisions to require that new subdivision and partition plats delineate and show the Water Quality Resource Area as a separate tract.
- B. The standards for land divisions in Water Quality Resource Areas Overlay Zone shall apply in addition to the requirements of the city land division ordinance and zoning ordinance.
- C. Prior to preliminary plat approval, the Water Quality Resource Area shall be shown as a separate tract, which shall not be a part of any parcel used for construction of a dwelling unit.
- D. Prior to final plat approval, ownership of the Water Quality Resource Area tract shall be identified

to distinguish it from lots intended for development. The tract may be identified as any one of the

following:

- 1. Private open space held by the owner or homeowners association; or
- 2. For residential land divisions, private open space subject to an easement conveying storm and surface water management rights to the county and preventing the owner of the tract from activities and uses inconsistent with the purpose of this ordinance; or
- 3. At the owner's option, public open space where the tract has been dedicated to the city or other governmental unit; or
- 4. Any other ownership proposed by the owner and approved by the City Council.
- Note: Approval by the governmental unit of any dedication or transfer to the governmental unit is required prior to transfer.
- E. Where the Water Quality Resource Area tract is dedicated to the city or other governmental unit, development shall be subject to a minimum 3-foot setback from the Water Quality Resource Area.
- F. The density of development that would otherwise be permitted on an area of land contained within a Water Quality Resource Area tract that is set aside as provided above may be transferred to adjacent lots. Once density is transferred from a lot within the Water Quality Resource Area, the increase allocated to the transfer lot may not be transferred to any other lot. Density transfers shall be noted on the partition or subdivision map.

Section VII. Erosion Prevention and Sediment Control

- A. The purpose of this section is to require erosion prevention measures and sediment control practices for all development inside and outside the Water Quality Resource Area and Flood Management Area Overlay Zones during construction to prevent and restrict the discharge of sediments, and to require final permanent erosion prevention measures, which may include landscaping, after development is completed. Erosion prevention techniques shall be designed to protect soil particles from the force of water and wind so that they will not be transported from the site. Sediment control measures shall be designed to capture soil particles after they have become dislodged by erosion and attempt to retain the soil particles on site.
- B. Prior to beginning work the applicant shall obtain an Erosion and Sediment Control Permit from the County.
- C. The County may inspect the development site to determine compliance with the Erosion and Sediment Control Plan and Permit.

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D. Erosion that occurs on a development site that does not have an Erosion and Sediment Control Permit, or that results from a failure to comply with the terms of such a Permit, constitutes a

violation of this ordinance.

G. If the County finds that the facilities and techniques approved in an Erosion and Sediment Control Plan and Permit are not sufficient to prevent erosion, the County shall notify the permittee. Upon receiving notice, the permittee shall immediately install interim erosion and sediment control measures as required by the County. If required by the County, the applicant shall submit and implement a revised Erosion and Sediment Control Plan.

Section VIII. Variances

- A. The purpose of this Section is to ensure that compliance with this ordinance does not cause unreasonable hardship. To avoid such instances, the requirements of this ordinance may be varied. Variances are also allowed when strict application of this ordinance would deprive an owner of all economically viable use of land.
- B. This Section applies in addition to the standards governing proposals to vary the requirements of the base zone.
- C. The Planning Commission shall, upon receiving an application to vary the requirements of this ordinance, provide notice of the request to all property owners within (200) feet.
- D. Development may occur on lots located completely within the Water Quality Resource Area Overlay Zone that were legally created on or before the date this ordinance was adopted or on lots legally created after the adoption of this ordinance so long as the application to create the lot or lots was deemed complete prior to the adoption of this ordinance. Development shall not disturb more than 5,000 square feet of the vegetated corridor, including access roads and driveways, subject to the erosion and sediment control standards of this ordinance.

E. Hardship Variance

Variances to avoid unreasonable hardship caused by the strict application of this ordinance are permitted subject to the criteria set forth in this section. To vary from the requirements of this ordinance, the applicant must demonstrate the following:

- 1 The variance is the minimum necessary to allow the proposed use or activity;
- 2. The variance does not increase danger to life and property due to flooding or erosion;
- 3. The impact of the increase in flood hazard, which will result from the variance, will not prevent the city or county from meeting the requirements of this ordinance. In support of this criteria the applicant shall have a qualified professional engineer document the expected height, velocity and duration of flood waters, and estimate the rate of increase in sediment transport of the flood waters expected both downstream and upstream as a result of the variance;
- 4. The variance will not increase the cost of providing and maintaining public services during and after flood conditions so as to unduly burden public agencies and taxpayers;
- 5. Unless the proposed variance is from Section IV.F.9 (mitigation) or Section VII (erosion control), the proposed use will comply with those standards; and
- 6. The proposed use complies with the standards of the base zone.

F Buildable Lot Variance

A variance to avoid the loss of substantial economically viable use of a lot that is partially inside the Water Quality Resource Area Overlay Zone is permitted. Development on such lots shall not disturb more than 5,000 square feet of the vegetated corridor, including access Ordinance No. 70-2001 17 December 10, 2001 roads and driveways, subject to the erosion and sediment control standards in Section VII of this ordinance. Applicants must demonstrate the following:

- 1. Without the proposed variance, the applicant would be denied economically viable use of the subject property. To meet this criterion, the applicant must show that:
 - a. The proposed use cannot meet the standards in Section VIII.E (hardship variance); and
 - b. No other application could result in permission for an economically viable use of the subject property. Evidence to meet this criterion shall include a list of uses allowed on the subject property.
- 2. The proposed variance is the minimum necessary to allow for the requested use;
- 3. The proposed variance will comply with Section IV.F.9 (mitigation) and Section VII (erosion control); and
- 4. The proposed use complies with the standards of the base zone.
- G. Variance Conditions

The Planning Commission may impose such conditions as are deemed necessary to limit any adverse impacts that may result from granting relief. If a variance is granted pursuant to Subsections E. 1-6, the variance shall be subject to the following conditions:

- 1. The minimum width of the vegetated corridor shall be 15 feet on each side of a Primary Protected Water Feature, except as allowed in Section IV.C and D;
- 2. No more than 25 percent of the length of the Water Quality Resource Area for a Primary Protected Water Feature within a development site can he less than 30 feet in width on each side of the water feature; and
- 3. In either case, the average width of the Water Quality Resource Area shall be a minimum of 15 feet on each side for Secondary Protected Water Features, a minimum of 50 feet on each side for Primary Protected Water Features; or up to 200 feet on each side in areas with slopes greater than 25 percent. The stream shall be allowed to meander within this area, but in no case shall the stream be less than 10 feet from the outer boundary of the Water Quality Resource Area.

Section IX. Map Administration

- A. The purpose of this section is to provide for maps designating the Protected Water Features, Water Quality Resource Areas and Flood Management Areas in the City of Rivergrove.
- B. Copies of the maps on file which have been accepted by the city as delineating a Protected Water Feature or the Flood Management Area shall be submitted to Metro to update Metro's Water Quality Management Maps and may be used by the city as a reference.
- C. When the city makes a finding in the processing of a new application that adds, corrects or alters the location of a Protected Water Feature, Water Quality Resource Area and/or Flood Management Area it shall retain the map for future reference and submit a copy to Metro to update Metro's Water Quality Management Maps. Areas added to Wetlands, Water Quality Resource Areas and Flood Management Areas in mitigation of uses allowed herein shall be treated as an addition or alteration of the location of a Protected Water Feature, Water Quality Resource Area and/or Flood Management Areas.

Section X. Consistency

Where the provisions of this ordinance are less restrictive or conflict with comparable provisions of the zoning ordinance, regional, state or federal law, the provisions that are more restrictive shall govern. Where this ordinance imposes restrictions that are more stringent than regional, state and federal law, the provisions of this ordinance shall govern.

Section XI. Warning and Disclaimer of Liability

The degree of flood protection required by this ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This ordinance does not imply that land outside the areas of special flood hazards or uses permitted within such areas will be free from flooding or flood damage. This ordinance shall not create liability on the part of the City or County, any officer or employee thereof, or the Federal Insurance Administration, for any damages that result from reliance on this ordinance or any administrative decision lawfully made hereunder.

Section XII. Severability and Interpretation

- A. The provisions of this ordinance are severable. If any section, clause or phrase of this ordinance is adjudged to be invalid by a court of competent jurisdiction, the decision of that court shall not affect the validity of the remaining portions of this ordinance.
- B. In the interpretation and application of this ordinance, all provisions shall be: (1) considered as minimum requirements; (2) liberally construed in favor of the governing body; and, (3) deemed neither to limit nor repeal any other powers granted under the State statutes.

Section XIII. Enforcement

- A. No person shall engage in or cause to occur any development, use or activity that fails to meet the standards and requirements of this ordinance.
- B. In addition to other powers the city or county may exercise to enforce this ordinance, the city or county may:
 - 1. Establish a cooperative agreement between the city and the applicant (or responsible party) to remedy the violation.
 - 2. Issue a stop work order.
 - 3. Impose a civil penalty of not more than \$500 for each violation upon the permittee, contractor or person responsible for carrying out the development work. Each day of violation shall constitute a separate offense.
 - 4. Cause an action to be instituted in a court of competent jurisdiction.
 - 5. Authorize summary abatement and subsequent recovery of costs incurred by the city.

Section XIV. Definitions

Definitions. Unless specifically defined below, words or phrases used in this section shall be interpreted to give them the same meaning as they have in common usage and to give this classification its most reasonable application.

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Architect - An architect licensed by the State of Oregon.

Bankful Stage - Defined in OAR 141-85-010 as the stage or elevation at which water overflows the natural banks of a stream or other waters of the state and begin to inundate upland areas. In the absence of a physically defined top of bank, the two-year recurrent flood elevation may be used to approximate the bankful stage.

Base Zone - The zoning for a parcel in the City of Rivergrove as established by the Comprehensive Plan and the Rivergrove Land Development Ordinance.

Created Wetlands - Those wetlands developed in an area previously identified as a non-wetland to replace, or mitigate wetland destruction or displacement. A created wetland shall be regulated and managed the same as an existing wetland.

Debris - discarded man-made objects that would not occur in an undeveloped stream corridor or wetlands. Debris includes, but is not limited to, tires, vehicles, litter, scrap metal, construction waste, lumber, plastic or styrofoam. Debris does not include objects necessary to a use allowed by this ordinance, or ornamental and recreational structures. Debris does not include existing natural plant materials or natural plant materials which are left after flooding, downed or standing dead trees or trees which have fallen into Protected Water Features.

Department of Environmental Quality (DEQ) Water Quality Standards - The numerical criteria or narrative condition needed in order to protect an identified beneficial use.

Design Flood Elevation -the elevation of the 100-year storm as defined in FEMA Flood Insurance Studies.

Development - any man-made change defined as buildings, the siting of manufactured homes or other structures, mining, dredging paving, filling, or grading in amounts greater than ten (10) cubic yards on any lot or excavation. In addition, any other activity that results in the removal of more than 20 percent of the vegetation in the Water Quality Resource Area on a lot is defined as development, for the purpose of this ordinance. An activity that is not development but results in the removal of vegetation in the Water Quality Resource Area on a lot must comply with the Erosion and Sediment Control measures set forth herein. Development for the purposes of this ordinance_does not include the following: a) Stream enhancement or restoration projects approved by cities and counties and_b) Farming practices as defined in ORS 30.930 and farm use as defined in ORS 215.203, except that buildings associated with farm practices and farm uses are subject to the requirements of this ordinance.

Disturb - man-made changes to the existing physical status of the land, which are made in connection with development. The following uses are excluded from the definition:

enhancement or restoration of the Water Quality Resource Area;

planting native cover identified in the Rivergrove Native Plant List.

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Emergency - any man-made or natural event or circumstance causing or threatening loss of life, injury to person or property, and includes, but is not limited to, fire, explosion, flood, severe weather, drought earthquake, volcanic activity, spills or releases of oil or hazardous material, contamination, utility or transportation disruptions, and disease.

Engineer - A registered professional engineer licensed by the State of Oregon.

Enhancement - the process of improving upon the natural functions and/or values of an area or feature which has been degraded by human activity. Enhancement activities may or may not return the site to a pre-disturbance condition, but create/recreate processes and features that occur naturally.

Erosion - Erosion is the movement of soil particles resulting from actions of water or wind.

Fill - any material such as, but not limited to, sand, gravel, soil, rock or gravel that is placed in a wetland or floodplain for the purposes of development or redevelopment.

Floodplain - The land area identified and designated by the FEMA that has been or may be covered temporarily by water as a result of a storm event of identified frequency. It is usually the flat area of land adjacent to a stream or river formed by floods.

Floodway - The portion of a watercourse required for the passage or conveyance of a given storm event as identified and designated by FEMA. The floodway shall include the channel of the watercourse and the adjacent floodplain that must be reserved in an unobstructed condition in order to discharge the base flood without flood levels by more than one foot.

Flood Management Areas - all lands contained within the 100-year floodplain and floodway as shown on the Federal Emergency Management Agency Flood Insurance Maps.

Invasive Non-native or Noxious Vegetation - plant species that have been introduced and due to aggressive growth patterns and lack of natural enemies in the area where introduced, spread rapidly into native plant communities, or which are not listed on the Rivergrove Native Plant List as adopted by Rivergrove Council resolution.

Lot - Lot means a single unit of land that is created by a subdivision of land. (ORS 92.010(3)).

Metro Prohibited Plant List or Metro Nuisance Plant List – lists of prohibited or nuisance plants for Water Quality Resource Areas as adopted by Metro Council resolution.

Mitigation - the reduction of adverse effects of a proposed project by considering, in the order: a)

avoiding the impact all together by not taking a certain action or parts of an action; b) minimizing

impacts by limiting the degree or magnitude of the action and its implementation; c) rectifying the impact by repairing, rehabilitating or restoring the effected environment; d) reducing or eliminating the impact over time by preservation and maintenance operations during the life of

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the action by monitoring and taking appropriate measures; and e) compensating for the impact by replacing or providing comparable substitute Water Quality Resource Areas.

Native Vegetation - any vegetation native to the Portland metropolitan area or listed on the Rivergrove Native Plant List as adopted by Rivergrove Council resolution.

Open Space - Land that is undeveloped and that is planned to remain so indefinitely. The term encompasses parks, forests and farmland. It may also refer only to land zoned as being available to the public, including playgrounds, watershed preserves and parks.

Overlay Zone - An area within the City of Rivergrove that lies within a Water Quality Resource Area and/or a Flood Management Area.

Owner or Property Owner - The person who is the legal record owner of the land, and where there is a recorded land sale contract, the purchaser thereunder.

Parcel - Parcel means a single unit of land that is created by a partitioning of land. (ORS 92.010(7)).

Plans - The drawings and designs that specify construction details.

Practicable - means available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purpose.

Protected Water Features

Primary Protected Water Features shall include:

- a. wetlands; and
- b. rivers, streams, and drainages downstream from the point at which 100 acres or more are drained to that water feature (regardless of whether it carries year-round flow); and
- c. streams carrying year-round flow; and
- d. springs which feed streams and wetlands and have year-round flow and
- e. natural lakes.

Secondary Protected Water Features shall include intermittent streams and seeps downstream of the point at which 50 acres are drained and upstream of the point at which 100 acres are drained to that water feature.

Restoration - the process of returning a disturbed or altered area or feature to a previously existing natural condition. Restoration activities reestablish the structure, function, and/or diversity to that which occurred prior to impacts caused by human activity.

"Resource" versus "Facility" - The distinction being made is between a "resource," a functioning natural system such as a wetland or stream; and a "facility" which refers to a created or constructed structure or drainage way that is designed, constructed and maintained to collect and filter, retain, or detain surface water run-off during and after a storm event for the purpose of water quality improvement.

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Riparian -Those areas associated with streams, lakes and wetlands where vegetation communities are predominately influenced by their association with water.

Routine Repair and Maintenance - activities directed at preserving an existing allowed use or facility, without expanding the development footprint or site use.

Stormwater Pre-treatment Facility - any structure or drainage way that is designed, constructed, and maintained to collect and filter, retain, or detain surface water runoff during and after a storm event for the purpose of water quality improvement.

Stream - a body of running water moving over the earth's surface in a channel or bed, such as a creek, rivulet or river. It flows at least part of the year, including perennial and intermittent streams. Streams are dynamic in nature and their structure is maintained through build-up and loss of sediment.

Structure - A building or other major improvement that is built, constructed or installed, not including minor improvements, such as utility poles, flagpoles or irrigation system components, that are not customarily regulated through zoning codes. Fences and decks are considered structures for the purpose of this ordinance.

Top of Bank - The same as "bankful stage" defined in OAR 141-85-010(2).

Utility Facilities - buildings, structures or any constructed portion of a system which provides for the production, transmission, conveyance, delivery or furnishing of services including, but not limited to, heat, light, water, power, natural gas, sanitary sewer, stormwater, telephone and cable television. Utility facilities do not include stormwater pretreatment facilities.

Variance - means a discretionary decision to permit modification of the terms of an implementing ordinance based on a demonstration of unusual hardship or exceptional circumstances unique to a specific property.

Vegetated Corridor - the area of setback between the top of bank of a Protected Water Feature and the delineated edge of the Water Quality Resource Area as defined in Table 1.

Visible or Measurable Erosion - Visible or measurable erosion includes, but is not limited to:

Deposits of mud, dirt sediment or similar material exceeding one-half cubic foot in volume on public or private streets, adjacent property, or onto the storm and surface water system, either by direct deposit, dropping discharge, or as a result of the action of erosion. Evidence of concentrated flows of water over bare soils; turbid or sediment laden flows; or evidence of on-site erosion such as rivulets on bare soil slopes, where the flow of water is not filtered or captured on the site. Earth slides, mudflows, earth sloughing, or other earth movement that leaves the property.

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Water Quality Resource Areas - The Protected Water Feature and the adjacent Vegetated Corridor as established in this ordinance.

Watershed - A watershed is a geographic unit defined by the flows of rainwater or snowmelt. All land in a watershed drains to a common outlet, such as a stream, lake or wetland.

Wetlands - Wetlands are those areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support and under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas. Wetlands are those areas identified and delineated by a qualified wetland specialist as set forth in the most recent Corps of Engineers Wetland Delineation Manual and created wetlands.

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