

4100885

ORDINANCE NO. 98-04

AN ORDINANCE ADOPTING RULES AND REGULATIONS FOR  
NORTHWOODS WATER DISTRICT  
RELATING TO CROSS CONNECTIONS AND BACK-FLOW PREVENTION DEVICES

WHEREAS, pursuant to Chapter 333, Division of the Oregon Administrative rules, it is the responsibility of NORTHWOODS WATER DISTRICT to protect its drinking water by systematically identifying and controlling cross connections and installing Backflow Prevention Devices.

NOW, THEREFORE, the NORTHWOODS WATER DISTRICT does ordain as follows:

1.0 PURPOSE: The purpose of these regulations is to protect the water supply of NORTHWOODS WATER DISTRICT from contamination or pollution due to any existing or potential cross connections.

2.0 CROSS CONNECTIONS REGULATED: The control of cross connections shall be in accordance with this ordinance and in compliance with the Oregon Administrative Rules, Chapter 333-061-070. NORTHWOODS WATER DISTRICT shall have the authority to establish requirements more stringent than the Division's regulations if conditions so dictate. Therefore, no cross connections shall be created, installed, used or maintained within territory served by NORTHWOODS WATER DISTRICT, except in accordance with this ordinance.

3.0 BACKFLOW PREVENTION ASSEMBLY REQUIREMENTS: See attached Exhibit "A" which Exhibit "A" is incorporated herein by reference thereto, the said Exhibit "A" being entitled "Installation Priorities".

3.1 NORTHWOODS WATER DISTRICT does accept atmospheric vacuum breakers (AVBs), pressure vacuum breakers (PVBs),

or air gaps as a method to correct an actual or potential cross connection requiring an approved Backflow prevention device, if approved by the Division.

4.0 INSTALLATION, MAINTENANCE AND TESTING REQUIREMENTS: To ensure proper operation, installation and accessibility of all backflow prevention devices, the following requirements shall apply to the installation of these device assemblies within the boundaries served by NORTHWOODS WATER DISTRICT.

4.1 NORTHWOODS WATER DISTRICT will require by this ordinance the property owner to install such device under its supervision and directions to the standards required by the District and Exhibit "A" Installation priorities.

4.2 Assemblies must be installed at the point of delivery of the water supply, before any branch in the line. Alternate locations must be approved in writing by NORTHWOODS WATER DISTRICT prior to installation.

4.3 All backflow device prevention assemblies shall be of the type and model approved by the Division and NORTHWOODS WATER DISTRICT.

4.4 Only device assemblies specifically approved by the Division for vertical installation may be installed vertically. Written request for a variance must be submitted prior to installation.

4.5 The device assembly shall be readily accessible with adequate room for maintenance and testing.

4.6 If permission is granted to install the backflow device inside of a building, the device assembly shall be readily accessible during regular working hours of 8:00 a.m. to 4:30 p.m., Monday through Friday.

4.7 Maximum height of installation shall not exceed five (5) feet for device assemblies 2" and larger unless there is a permanently installed platform meeting Occupation Safety and Health (OSHA) standards to facilitate servicing the device assembly.

4.8 Reduced pressure principle device assemblies may be installed in a vault only if relief valve discharge can be drained to daylight through a "boresight" type drain. The drain shall be of adequate capacity to carry the full rated flow of the device assembly and shall be screened on both ends.

4.9 An approved air gap shall be located at the relief valve orifice of reduced pressure principle devices. This air gap shall be at least twice the inside diameter of the incoming supply line as measured vertically above the top rim of the drain and in no case less than one (1) inch.

4.10 Immediately after installation, repair of the device assembly and/or the moving of the device assembly to another approved location, the device assembly must be tested by a State certified backflow device assembly tester employed by NORTHWOODS WATER DISTRICT. If for any reason a device assembly fails any test, it shall be repaired and retested immediately until satisfactorily passing the test.

4.11 NORTHWOODS WATER DISTRICT will retain registration of all device assemblies. Registration shall consist of date of installation, installer, make, model, serial number, size and location of the device assembly and initial test report. All subsequent test results shall be retained in the file.

4.12 Any damage to the device assembly(ies) caused by negligence or intentional acts will be the financial responsibility of the water user or the property owner.

This responsibility will include, but not be limited to, purchase of a new device assembly, together with its installation and initial testing.

4.13 The property owner or the water user shall be responsible for protecting the device assembly from freezing and other severe weather conditions.

5.0 ACCESS TO PREMISES: Authorized employees or representatives of the NORTHWOODS WATER DISTRICT, shall have access during reasonable hours to all parts of the premises and within the buildings to which water is supplied. However, if any water user or owner refuses access to a premises or to the interior of a structure at reasonable times and on reasonable notice for inspection by a cross connection specialist appointed by NORTHWOODS WATER DISTRICT, a reduced pressure principle device assembly will be installed at the service connection to the premises.

6.0 ANNUAL TESTING AND REPAIRS: NORTHWOODS WATER DISTRICT shall be responsible for arranging the testing of a customer's device assembly through testers approved and contracted by NORTHWOODS WATER DISTRICT. All backflow device assemblies installed within the territory served by NORTHWOODS WATER

DISTRICT, shall be re-tested annually and/or on a more frequent basis as required by a State certified tester employed by NORTHWOODS WATER DISTRICT. All device assemblies found not functioning properly shall be immediately repaired by the tester or replaced. All associated expenses shall be billed to the property owner or the water user by NORTHWOODS WATER DISTRICT.

Device assemblies shall be tested more frequently if NORTHWOODS WATER DISTRICT determines that there is "an extreme health risk" or the device assembly repeatedly fails.

## 7.0 COST OF COMPLIANCE

7.1 Installation and maintenance of devices to protect the water of NORTHWOODS WATER DISTRICT from the adverse effects of cross connections is in the best interest of NORTHWOODS WATER DISTRICT and its water users.

7.2 The user or owner shall assume and pay costs relating to the installation of a backflow device to an existing water service. The expense of purchasing the backflow device shall be borne by the water user and/or the property owner.

7.3 All water connections by NORTHWOODS WATER DISTRICT from and after the effective date of this ordinance shall include provision, at the property owner's expense, for installation of an approved backflow prevention device, including testing services as required herein.

8.0 TERMINATION OF SERVICES: Failure to comply with any part of this ordinance is sufficient cause for the immediate discontinuance of public water service to the premises. (OAR Chapter 333-61-070 Section 1).

9.0 DEFINITIONS: See the attached definition, list which definition list is made a part hereof by reference thereto.

10.0 EFFECTIVE DATE: This ordinance shall be effective as of April 20, 1998.

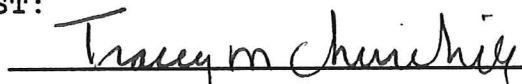
ADOPTED by the Board of Directors of NORTHWOODS WATER DISTRICT this 20th day of April 1998.

FOR NORTHWOODS WATER DISTRICT

A handwritten signature in cursive script, appearing to read "Ron Cassidy", is written over a horizontal line.

BY Chairman

ATTEST:

A handwritten signature in cursive script, appearing to read "Tracy M. Churchley", is written over a horizontal line.

Secretary

## DEFINITIONS

1.1 "Approved backflow prevention device" means a device to counteract back pressures or prevent back siphonage. This device must appear on the list of approved devices issued by the Oregon State Health Division.

1.2 "Auxiliary supply" means any water source or system other than the public water system, that may be available in the building or on the premises.

1.3 "Backflow" means the flow in the direction opposite to the normal flow or introduction of any foreign liquids, gases or substances into the water system of the District's water.

1.4 "Contamination" means the entry into or presence in a public water supply system of any substance which may be deleterious to health and/or quality of the water.

1.5 "Cross Connection" means any physical arrangement where a public water system is connected, directly or indirectly, with any other non-drinkable water system or auxiliary system, sewer, drain conduit, swimming pool, storage reservoir, plumbing fixture, swamp cooler, or any other device which contains, or may contain, contaminated water, sewage, or other liquids of unknown or unsafe quality which may be capable of imparting contamination to the public water system as a result of backflow. Bypass arrangements, jumper connections, removable sections, swivel or change over devices, or other temporary or permanent devices through which, or because of which, backflow may occur are considered to be cross connections.

1.6 "Degree of hazard" shall be derived from the evaluation of a health, system, plumbing or pollution hazard.

1.7 "Double Check Valve Assembly" means an assembly of two independently acting check valves with shut-off valves on each side of the check valves and test cocks for checking the water tightness of each check valve.

1.8 "Division" means the Health Division of the Oregon Department of Human Resources.

1.9 "NORTHWOODS" means NORTHWOODS WATER DISTRICT.

1.10 "Health hazard" means an actual or potential threat of contamination of a physical or toxic nature to the public potable water system or the consumer's potable water system that would be a danger to health.

1.11 "Non-residential uses" shall include all uses not specifically included in "residential uses" defined in 1.17.

1.12 "Plumbing hazard" means an internal or plumbing-type cross-connection in a consumer's potable water system that may be either a pollution or a contamination-type hazard. This includes, but is not limited to, cross connections to toilets, sinks, lavatories, wash trays, domestic washing machines and lawn sprinkling systems. Plumbing-type cross connections can be located in many types of structures including homes, apartment houses, hotels, and commercial or industrial establishments.

1.13 "Pollution hazard" means an actual or potential threat to the physical properties of the water system or the potability of the public or the consumer's potable system but which would not constitute a health or system hazard, as defined. The maximum degree of intensity of pollution to which the potable water system could be degraded under this definition would cause a nuisance or be aesthetically objectionable or could cause minor damage to the system or its appurtenances.

1.14 "Potable water supply" means any system of water supply intended or used for human consumption or other domestic use.

1.15 "Premises" means any piece of land to which water is provided, including all improvements, mobile home(s) and structures located on it.

1.16 "Reduced pressure principle device" shall mean an assembly containing two independently acting approved check valves together with a hydraulically-operated, mechanically independent pressure differential relief valve located between the check valves and at the same time below the first check valve. The device shall include properly located test cocks and tightly closing shut-off valves at the end of the assembly. A check valve is approved if it appears on the list of approved devices issued by the Oregon State Health Division.

1.17 "Residential use" shall include single family residences, duplexes, multiplex housing and apartments where the individual units are each on a separate meter or where two or more units served by one meter are all used for residential purposes. For purposes of this ordinance it shall include residences which are used in conjunction with the home occupations as defined by the Tillamook County Zoning and Land Use Ordinance.

1.18 "System Hazard" means an actual threat of sever danger to the physical properties of the public or consumer's potable water system or of a pollution or contamination which would have a detrimental effect on the quality of the potable water in the system.



EXHIBIT "A"  
INSTALLATION PRIORITIES

1. Lawn sprinkler systems
2. Private water supply - well, spring, river or auxiliary supply
3. Hot tubs
4. Fire protection sprinkler systems
5. Swimming pools
6. All solar systems
7. Any other hook-up which would be required by the NORTHWOODS WATER DISTRICT Board.