

PWSID # 4100638

**AN ORDINANCE
for the
CONTROL OF BACKFLOW AND CROSS-CONNECTIONS**

Recitals

WHEREAS, to protect the public potable water supply of Southwood Park Water District ("District") from the possible contamination or pollution by isolating within the consumer's internal distribution system or the consumer's private water system(s) such contaminants or pollutants which could backflow into the public water systems;

WHEREAS, to promote the elimination or control of existing cross-connections, actual or potential between the consumer's in-plant potable water system(s) and non-potable water system plumbing fixtures and industrial piping systems;

WHEREAS, to provide for the maintenance of a continuing Program of Cross-Connection Control which will systematically and effectively prevent the contamination or pollution of the potable water systems;

WHEREAS, where the Federal Government has authorized the State Health Division of the Department of Human Resources to administer the Federal Safe Drinking Water Act in this state, and, the State in turn has authorized water purveyors to administer the Federal Safe Drinking Water Act within their boundaries, subject to certain minimum standards contained in the Oregon Administrative Rules;

WHEREAS, part of the Federal Safe Drinking Water Act and State Administrative Rules require all water purveyors to undertake a program for controlling and eliminating cross connections .

NOW, THEREFORE, BE IT ORDAINED by the Board of Commissioners of the Southwood Park Water district as follows:

Section 1. Definitions

- 1.1 "Water System" shall be considered as made up of two parts: The Water Purveyor's System and the User's System.
- 1.2 "District's System" shall consist of the source facilities and the distribution system; and shall include all those facilities of the water system under the complete control of the purveyor, up to the point where the consumer's system begins.
- 1.3 "Source" shall include all components of the facilities utilized in the production, treatment, storage, and delivery of water to the distribution system.
- 1.4 "Distribution System" shall include the network of conduits used for the delivery of water from the source to the consumer's system.

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- 1.5 "User's System" shall include those parts of the facilities beyond the termination of the water purveyor's distribution system, (domestic and irrigation systems start immediately behind the water meter, fire line systems start with the valve immediately off the main water system line) which are utilized in conveying potable water to points of use.
- 1.6 Definitions of Rules and Regulations. All definitions of the District's Rules and Regulations in the ordinances are adopted and incorporated by reference.

Section 2 Prohibitions and Conditions

- 2.1 No water service connection to any premise shall be installed or maintained by the District unless the water service is protected as required by the Oregon Administrative Rules 333-61-0070 and District Ordinance. Service of water to any premise shall be discontinued by the District if a backflow prevention assembly required by OAR 333-61-0070 and the District Ordinance is not installed, tested and maintained, or if it is found that a backflow prevention assembly has been removed, bypassed, or if an unprotected cross-connection exists on the premise. Service will not be restored until such conditions or defects are corrected.
- 2.2 User's facilities should be open for inspection at all reasonable times to authorized representatives of the District to determine whether unprotected cross-connections or violations of this ordinance exist. If such a violation becomes known, the District shall deny or immediately discontinue service to the premises by providing for a physical break in the service line until the user has corrected the condition (s) in conformance with the Oregon State Administrative Rule 333-61-0070 and this ordinance.
- 2.3 User or the owner of any premises obtaining water from the District who treats the water in any way or adds any chemical or substance to the water shall notify the District.
- 2.4 An approved backflow prevention assembly shall be installed on each service line to a user's water system at or near the property line or immediately inside the building being served; but, in all cases, before the first branch line leading off the service line wherever the following condition exist.
- 2.4.1 There is an auxiliary water supply which is, or can be, connected to potable water piping.
- 2.4.2 There is piping for conveying liquids other than potable water, and where that piping is under pressure and installed in proximity to potable water piping.
- 2.4.3 There is intricate plumbing which makes it impractical to ascertain whether or not a cross-connection exists.
- 2.4.4 There is a pipeline one and one half inch (1 1/2") and larger nominal pipe diameter supplying public water to the premises.
- 2.4.5 There is a structure more than thirty feet (30') in height (as measured between the highest peak of that structure and the elevation of the service at the public water main to those premises) and the pipeline supplying water to that structure is less than one and one half inch (1 1/2") internal diameter.

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- 2.4.6 There is a risk of back siphoning or back pressure;
- 2.4.7 There is a cross-connection or a potential cross-connection;
- 2.4.8 There is an irrigation/sprinkler system;
- 2.4.9 The owner of a mobile apparatus to which the District supplies water shall provide for backflow prevention by installing a backflow prevention device assembly or providing an approved air gap separation on the mobile apparatus;
- 2.4.10 When there is a standby fire line/ sprinkler system using piping material that is not approved for potable water use and/or which does not provide for periodic flow through the line during each 24-hour period a double check detector assembly ("DCDA") will be the minimum protection required. In addition,
 - 2.4.10.1 Any system with provisions for adding foamite or toxic fire retardants whether directly connected or not will require a reduced pressure principle detector assembly (RPDA) at the property line.
 - 2.4.10.2 Any system connected to or with provisions for connecting to an unapproved auxiliary water supply will require a reduced pressure principle detector assembly (RPDA) at the property line.
 - 2.4.10.3 Any system that utilizes toxic antifreeze will require a reduced pressure principle assembly (RP) on the anti freeze loop or a reduced pressure principle detector assembly (RPDA) at the property line.
 - 2.4.10.4 Any system that utilizes F.D.A. accepted antifreeze will require a reduced pressure principle assembly (RP) on the antifreeze loop.
 - 2.4.10.5 Any system with private fire hydrants will require a double check detector assembly (DCDA) at the property line.
- 2.4.11 The type of backflow prevention required under section 3.4.4 shall be at least commensurate with the degree of hazard which exists:
 - 2.4.11.1 An approved air gap of at least twice the inside diameter, but not less than one inch, of the incoming supply line measured vertically above the top rim of the vessel, or an approved reduced pressure backflow device (RPBD) assembly shall be installed when the substance which could backflow is hazardous to health, such as but not limited to ; sewage treatment plants, sewage pumping stations, chemical manufacturing plants, plating plants, hospitals, mortuaries, car washes, medical clinics;
 - 2.4.11.2 An approved double check valve assembly (DCVA) shall be installed when the substance which could backflow is objectionable but does not pose an unreasonable risk to health.

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2.4.11.3 An approved pressure vacuum breaker or an atmospheric vacuum breaker shall be installed when the substance which could backflow is objectionable but does not pose an unreasonable risk to health and where there is no possibility of backpressure in the downstream piping. A shutoff valve may be installed on the line downstream of a pressure vacuum breaker but shall not be installed downstream of an atmospheric vacuum breaker.

2.4.12 All backflow prevention device assemblies required under this section shall be of a type and model approved by the Oregon State Health Division and installed as per Oregon Administrative Rule 333-61-071 and District Backflow Standards.

2.4.13 Backflow prevention device assemblies installed before the effective date of this ordinance shall be permitted to remain in service if:

2.4.13.1 They were approved at the time of installation but are not on the current list of approved devices;

2.4.13.2 They are properly maintained;

2.4.13.3 They are commensurate with the degree of hazard;

2.4.13.4 They are tested annually and perform satisfactory;

When devices of this type are moved, or require more than minimum maintenance or are on services which have been modified, changed or remodeled, they shall be replaced by device assemblies which are on the Oregon State Health Division approved list.

Section 3 Testing

3.1 The water user or the owner of the premises where one or more backflow prevention device(s) are installed shall cause a test of the device(s) to be performed by an Oregon State Health Division certified tester:

3.1.1 At the time of installation and annually thereafter;

3.1.2 If the device is moved or repaired, immediately thereafter.

Unless otherwise provided, the owner of a mobile apparatus on which a backflow prevention device assembly or air gap separation is required shall cause a test of the assembly or an inspection of the air gap separation to be performed :

3.1.3 Within the year before use in the District and annually thereafter.

3.2 The District may require more frequent testing of backflow prevention assembly devices if the assembly is installed at a facility that poses an extreme health risk or if the device fails repeatedly.

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- 3.3 All completed backflow test reports must be forwarded to the District within ten (10) working days from the date of the test;
 - 3.3.1 If the test results indicate that the device is working properly the results shall be entered in District's records as such.
 - 3.3.2 If the test results indicate that the device is not working properly the device must be repaired immediately and retested and the test results forwarded to the District within ten (10) working days.
 - 3.3.3 If a device fails a test and repair is not immediately possible, the District backflow department must be notified immediately of the failure, location of the failed device and estimated time of repairs.
 - 3.3.4 If the District has not received the results of a test required to be performed, the District may, order a test and add the cost of the test on to the User's water bill, or turn the water off to the premise.
 - 3.3.5 If the User or owner of a backflow device fails to make repairs on a failed backflow device within ten days of a test showing the device is not operating properly, the District may order the repair and retest and add the cost of the repair and retest to the User/Owners water bill, or the District may turn water off to the premise.
 - 3.3.6 The District may discontinue the water service of any person who refuses or fails to pay for charges added to the water bill per items 3.3.4 and 3.3.5 of this section.
- 3.4 Oregon State Health Division certified testers who wish to have their names listed on the District partial list of State Certified Testers which is mailed with device test notice's must comply with the District's "Backflow Tester Standards".

Section 4 Violation/Remedies

Violation of this ordinance shall be punishable by a fine of \$500 per day for each day of the violation. In addition said fine, the District may obtain injunctive or equitable relief to abate the violation, including termination of water service as a violation of the District's Rules and Regulations.

Section 5 Miscellaneous

5.1 Severability

If any portion of this Ordinance is found invalid by a court of competent jurisdiction, the remaining sections of said Ordinance shall be unaffected thereby.

5.2 Fees

By resolution, the District may adopt such fees as it deems appropriate for inspection, testing, shutoff, abatement, or other services provided under this Ordinance.

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5.3 Policy and Procedures

By resolution the District may adopt and amend implementing policies for this Ordinance.

Section 6 Approval of Existing Ordinance

This Ordinance was adopted by the Board of Commissioners of the Southwood Park Water District, after being read and public hearing at the Board's regular meeting, on 8-12-97 and after a second reading and public hearing at the Boards regular meeting on 9-9-97.

Philip Knudsen 9-9-97