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Cross Connection
Drinking Water Services

RESOLUTION NO. 12-18

A RESOLUTION ESTABLISHING UPDATED BACKFLOW PREVENTION AND CROSS CONNECTION CONTROL PROGRAM REQUIREMENTS.

WHEREAS, Tualatin Valley Water District has a responsibility to protect the potable water supply against risks to public health from contamination through actual or potential backflow and cross connections with other unauthorized sources; and

WHEREAS, the District has previously adopted Ordinance No. 01-15 (Rules and Regulations) which establish the conditions by which the District will serve its users and how users may lawfully receive service; and

WHEREAS, Ordinance No. 01-15 contains the Backflow Prevention and Cross-Connection Control Program which the District has administered through previous ordinances and resolutions for decades, most recently Resolution No. 04-15; and

WHEREAS, OAR 333-061-0005 to 333-061-0025 provides a Scope and Definitions for Public Water Systems and requires all water supplies to take reasonable precautions to assure the water system facilities are free of public health hazards by conducting an active program for systemically identifying and controlling cross connections; and

WHEREAS, OAR 333-061-0070 requires the District to develop and implement Cross Connection Control Programs to protect the public water system from pollution and contamination, which includes inspection and testing components; and

WHEREAS, OAR 333-061-0071 requires minimum backflow prevention assembly installation and operation standards for any approved backflow prevention assembly required by OAR 333-061-0070; and

WHEREAS, OAR 333-061-0072 through 0073 contain tester certification and training requirements; and

WHEREAS, TVWD Ordinance No. 01-15 allows the District to adopt implementing policies and procedures by resolution; and being fully advised.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF THE TUALATIN VALLEY WATER DISTRICT THAT:

Section 1: The Tualatin Valley Water District Backflow Protection and Cross Connection Control Program Requirements attached hereto as Exhibit A and incorporated by reference is hereby approved and adopted and supersedes the District's Backflow Protection and Cross Connection Control Program set forth in Resolution No. 04-15.

Section 2: This resolution is effective at 12:01 AM on March 22, 2018.

Approved and adopted at a regular meeting held on the 21st day of March 2018.

Richard Burke, President

Dick Schmidt, Secretary

Exhibit A

TUALATIN VALLEY WATER DISTRICT
BACKFLOW PROTECTION AND CROSS CONNECTION CONTROL
PROGRAM REQUIREMENTS

Protection of the quality, safety and security of the water supplied to the community is of utmost importance to the Tualatin Valley Water District (TVWD, the District). As part of this mission, TVWD seeks to reduce the risks of contamination of the community's potable water supply through implementation of the following Backflow Protection and Cross Connection Control Program with the goal of eliminating cross connections, either actual or potential, between the District's water system and the customer's plumbing system.

To help achieve this objective, TVWD has established the following requirements for backflow protection and cross connection control for all water services supplied by the District:

1. Definitions for and conditions of water service are in the Oregon Administrative Rules 333-061-0005 to 333-061-0025 and the applicable sections of the latest edition of the Tualatin Valley Water District Rules and Regulations.
2. Water service may be discontinued by the District in its sole discretion if a required backflow prevention assembly is not installed, tested, maintained; or if removed or bypassed; or if an unprotected cross connection exists after notice of the violation. In addition, water service will not be restored until such conditions or defects are corrected and approved by the District. In the event of an emergency affecting public health and safety, the District may, at its sole discretion, discontinue service immediately.
3. User's facilities shall be open for inspection at all reasonable times to the District to determine if an unprotected cross connection or violation of these Rules exists. If no accommodations are made to allow access, the District will require a reduce pressure backflow assembly installed at the service connection (directly behind the meter) or other assembly the District deems necessary in its sole discretion.
4. The User shall be responsible for any fees, charges and/or fines incurred in accordance with rates and charges adopted by the Board.
5. The provisions of Oregon Administrative Rules Chapter 333 Division 061 shall be minimum requirements for the District's program. Further, water service connections shall be protected as required by the latest edition of OAR 333-061-0070 to 333-061-0071. Evaluation, interpretation and application of the OAR requirements shall be subject to the interpretation of the District but in no case shall the District's requirements be less stringent than the requirements of the Oregon Administrative Rules. Additional specific requirements shall include:
 - a. Installation Requirements: Requirements for installation of backflow prevention assemblies, including but not limited to, clearances, spacing, capacity, metering requirements, and access shall be in accordance with OAR 333-061-0071 and the latest edition of the TVWD Water System Design and Construction Standards.

- b. Service Connections: In general, where required by the District, service connections shall be protected with an approved backflow prevention assembly commensurate with the degree of hazard installed at the service connection (directly behind the meter). The backflow prevention assembly shall be placed into service and a passing backflow assembly test report and account billing information submitted to TVWD prior to permanent activation of the service connection.
- c. Large Services: All service connections 1.5-inch diameter and greater shall be protected with an approved backflow prevention assembly commensurate with the degree of hazard and installed at the service connection (directly behind the meter).
- d. Multi-Tenant Service Connections: All service connections to a multi-tenant residence or complex shall be protected with an approved backflow prevention assembly commensurate with the degree of hazard and installed at the service connection (directly behind the water meter).
- e. Auxiliary Water Supplies:
 - i. A water service connection which is or can be connected to an auxiliary water supply shall be protected with an approved backflow prevention assembly installed at the service connection (directly behind the meter).
 - ii. The minimum level of protection for such a service connection shall be an approved double-check valve assembly, regardless of the degree of separation between the water system and the auxiliary water supply.
 - iii. A reduced pressure principle device (RP) or approved air gap shall be required for a water service connection where the auxiliary water supply is connected to the premise plumbing or where such a connection, in the opinion of the District, is likely to occur.
 - iv. Premises with an auxiliary water supply that has been certified as decommissioned by the State of Oregon will not require a backflow prevention assembly upon submittal of the decommission certificate to TVWD.
- f. Fire Services: Backflow prevention requirements for fire service connections shall be commensurate with the degree of hazard. Required backflow prevention assemblies shall be installed, inspected by TVWD, and a passing backflow assembly test report and account billing information submitted to TVWD prior to permanent activation of the fire service connection.
- g. Residential Fire Sprinkler Systems: An additional backflow prevention assembly may not be required for residential multi-purpose (e.g., flow-thru) fire sprinkler systems where, in the opinion of the District, the risk of contamination of the District's water system is no greater than the risk of a typical residential water service connection.
- h. Irrigation: All water service connections installed exclusively for irrigation purposes shall be equipped with an approved backflow prevention assembly installed at the service connection (directly behind the meter). Multi-use service connections (i.e., domestic and

irrigation) may be equipped with an approved backflow prevention assembly installed at the point of hazard (in-premise isolation).

- i. Mobile Vessels, Tankers, and Apparatus: All mobile vessels, tankers and related apparatus filled through a fire hydrant must be inspected and approved by TVWD. Only an approved air gap is allowed which must be visible for inspection at all times.
 - j. Temporary Hydrant Meters: Temporary access to metered water through a fire hydrant is allowed with District approval. A District provided meter and approved backflow assembly is required at all times. Access is subject to approval based on hydraulics of the area and intended water use.
6. Backflow Testers performing services within TVWD shall submit all backflow test report information through the District's chosen software application, effective April 1, 2018. Hardcopy test reports or reports in a format other than the District's software application that are received after that date will be returned for submission in the required District electronic format. All Backflow Testers shall hold all necessary certifications from the State of Oregon in accordance with OAR 333-061-0072, and are required to submit current and updated certification credentials prior to expiration. Access to the TVWD reporting system software will be denied until all applicable certifications are valid and provided to TVWD for approval. Backflow testers shall also comply with additional requirements set forth in the TVWD's Backflow Assembly Tester Standards, available from the District.

Tualatin Valley Water District Backflow Assembly Tester Standards

Backflow assembly tester standards have been developed to enhance the consistency and accuracy of Tualatin Valley Water District's (TVWD) cross connection control program. As a water purveyor, TVWD has the responsibility to protect the potable water supply from potential or actual cross connections.

General Requirements

All backflow assembly testers performing work within TVWD must adhere to these standards prior to the acceptance of electronic backflow assembly test reports.

1. All required test fields within the electronic report format must be completed in order to submit a report. Additional requirements include:
 - a. The comments section must be completed if applicable. The comments section shall include, but is not limited to:
 - i. Notification of improperly installed backflow assemblies
 - ii. Type of hazard the backflow assembly is protecting
 - iii. Report repaired assemblies explaining what was repaired and parts used
 - iv. Report missing handles or inoperable shut off valves
 - v. Special tools or techniques used to perform the test
 - vi. Backflow assembly identification information of a replaced assembly
 - vii. If the assembly is left non-operational or off in any manner after the test, note what valves were left off or non-operational
 - viii. Confirm fire line meter works
2. All failed tests are to be reported to TVWD within 10 business days of a completion.
3. TVWD may randomly verify the test results recorded on any submitted electronic test report form. Results from the verification may be cause for rejection of the submitted test results and lead to notification to the customer of a failed test and enforcement action as well as action against the tester such as: imposition of conditions on the tester for continued testing within the District; suspension; or other action.
4. The tester has neither the responsibility nor the authority to enforce TVWD's cross connection control program. However, it is the responsibility of the tester to report any observed questionable practices to the attention of TVWD so that TVWD may investigate and implement enforcement practices if deemed necessary.
5. In addition to the tester standards above, all testers must also comply with Oregon Administrative Rules (OAR) 333-061-0070 through 0072 and TVWD's Cross Connection Control Program requirements.

6. Evaluation, interpretation, and application of the OARs shall be subject to interpretation by TVWD but in no case shall TVWD's requirements be less stringent than the requirements of the OARs.

Enforcement

Failure to comply with these standards will result in the tester being issued an offense and may result in immediate suspension from performing work within the TVWD service area.

Examples of offenses include, but are not limited to:

- Submitting a report without following approved test procedures
- Failing to note improperly installed backflow assemblies
 - Assembly installed incorrectly per the OARs and TVWD's specifications
 - Assembly not appropriate for the level of hazard
- Failing to report unprotected cross connections
- Permitting a tester to use someone else's certification number
- Falsifying a test report in any way
- Performing repairs on an assembly without proper credentials per OAR 333.061.0070 (15)
- Failing to test according to OARs and TVWD requirements
- Violation of the OARs

Disciplinary Action Process

- All offenses will be documented in writing and provided to the offender and the company employing the offender
- Offenses in any 12-month period may result in the tester being suspended and losing the privilege of testing within the TVWD service area for a minimum of 12 months from the date of the offense.
- Offenses will be reported to the applicable agency
- TVWD will not allow access to electronic test report submission system until the tester has met with TVWD staff and demonstrated that the tester has taken corrective actions.
- Following the meeting and reinstatement to the system, and until a determined time, a backflow assembly 'scheduled test list' must be provided to TVWD backflow staff a minimum of one week prior to conducting the tests.
- As determined by the District, TVWD will provide two-day's advance notice for tests that are required to be witnessed by TVWD staff. Any backflow report received that was not on the submitted test list will be considered invalid and rejected. This action will also be considered an offense of these standards and will be documented.
- An offense following any previous suspension will result in an additional 12-month suspension. If three offenses have been filed against one tester, the District may choose to permanently ban the tester from testing within TVWD.

Appeals Process

- If a tester and/or company receives written notice from TVWD of proposed disciplinary action, they are entitled to submit a written appeal within 10 business days to TVWD. If an appeal is not submitted by the required date, the disciplinary action is deemed final.
- The appeal must clearly state the tester's justification for the offense and rationale for not imposing discipline with supporting documentation. TVWD will consider the information submitted and may ask for clarification or provide the tester with an opportunity to meet and discuss in TVWD's sole discretion.
- TVWD will then issue a written final decision on the disciplinary action within 10 business days following receipt of the appeal and such action will be deemed final.