

Town of Bayfield

WATER'S BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL PROGRAM GUIDE

6/1/2016



Terms

Anniversary Test Month

The month of the year a containment device is due for testing.

Backflow

Normally, water flows from the Town of Bayfield's water distribution system into a customer's property. Backflow is the reverse direction – water flowing from the customer's property into the distribution system. Pressure differences within the distribution system can cause this phenomenon. For example, if a fire truck draws water from a hydrant at a fast rate, the surrounding properties in the area might experience a decrease in water pressure, which could cause the water from those properties to siphon back into the system toward the hydrant.

Containment Devices

Also known as backflow prevention assemblies, these devices are installed where the water service enters a property. They prevent the flow of water from the customer's property back into the distribution system, which could possibly contaminate the public drinking water supply with any water-borne hazards associated with the property.

Cross-Connection

A point in a drinking water distribution system where the potable water may come into contact with chemical, biological, or radiological contaminants that may be hazardous to humans. Fire sprinkler systems which contain propylene glycol are one example.

Backflow Prevention Requirements

Overview

In adherence to Colorado's regulations, the Backflow Prevention and Cross-Connection Control program protects the public water system from cross-connection contamination by requiring customers to:

Install containment devices on water services feeding specific types of properties, such as commercial buildings and multi-residential units.

Test containment devices after initial installation and annually thereafter to make sure they are functioning properly.

Submit completed test reports to Town of Bayfield, Town Hall 1199 Bayfield Parkway, PO Box 80, Bayfield, CO 81122.

Affected customers are notified by postal mail of required device installation and testing. It is the customer's responsibility to hire a qualified professional to install and test a device. Unless otherwise specified, customers should always install a **Reduced Pressure Zone (RPZ)** device.

Affected Properties

Commercial and Industrial Properties: All commercial and industrial properties are required to be surveyed and/or inspected to insure compliance with cross contamination requirements. If required to have a reduced pressure principle backflow prevention assembly installed property shall be tested annually.

Multifamily Residences: Multifamily Residences (units with a single residential connection to the public water system's distribution system from which two or more separate dwelling units are supplied water) are required to have a reduced pressure principle backflow prevention assembly installed and tested annually.

Single Family Residential Properties: Most residential properties have been excluded from any annual testing requirement but may still need a reduced pressure principle backflow prevention assembly based the Town of Bayfield Hazardous Cross Connection Control Program. Town of Bayfield homeowners with irrigation systems, other than Town treated water, are required to test their systems annually to make sure that dirt, bacteria, or chemicals from the non-potable water source cannot enter into the homeowner's drinking water. Additionally, homeowners with boilers or fire suppression systems, are required to test their system annually.

Containment Device Installation and Testing

Town of Bayfield cannot provide installation and testing services. Property owners need to contract with a licensed plumber or certified cross connection control technician for the services. Prices vary between individual companies which provide this service; therefore, be sure to get several quotes to help you choose. Prices will also be influenced by the size of your water service and the complexity of the installation.

Installers and testers can be found in a phone book or online phone directory or on-line by looking under

"Backflow Prevention Products & Services" , **"Plumbing Services"**, or see list below. Only a licensed plumber may install a backflow prevention device and only a certified backflow prevention device tester technician may test a device. Some plumbers are testers. Backflow Prevention Assembly Tester certification should be from the American Society of Sanitary Engineers (ASSE) or the American Backflow Prevention Association (ABPA). If certification has expired, the certification is invalid. Testing of devices is required annually – once every 12 months. Customers are notified of devices due for testing one month ahead of time. For example, if a device is due for testing in July, the customer will receive a notification letter in June. Testing a device earlier than the customer’s anniversary test month, will reset the customer’s anniversary month to the earlier month. For example, if a device is due for testing in July and the device is tested three months early in April, then the device’s new anniversary test month will be April of each year. Testing a device later than the anniversary test month will not change the device’s anniversary month. For example, if a device is due to be test in September and isn’t tested until October, then the device’s anniversary test month will remain September of each year.

Advance Fire Systems	970-884-4014	advancefire@ekiva.net
Belmear Mechanical	970-884-2531	dave@belmearmechanical.com
Blake Mechanical	970-247-2053	bbmech@frontier.net
Cooper Fire Protection Services	505-327-0474	jeremy.friis@cooperfirepro.com
D & J Enterprises	970-749-0801	Djenterpriseso2@gmail.com
Durango Automatic Fire Sprinklers	970-259-1548	lori@durangofire.com
Fire Alarm Services	303-466-8800	johnd@fasonline.cc
Greener Pastures Landscaping	970-385-2656	backflowdurango@gmail.com
J & J Landscaping	970-588-3638	jimbo@frontier.net
Master Rooter Plumbing LLC	970-884-1384	howard@gobrainstorm.net
Mountain Oasis	970-385-4922	mountainoasisdurango@yahoo.com
Roseberry Plumbing	970-247-2523	gary@roseberrys.biz
San Juan Water Works	970-247-5090	waterworks@mydurango.net
Scapegoat Landscaping LLC	970-903-4236	scapegoatlandscaping@gmail.com
Sprinkler Pro LLC	970-560-0297	Sprinklerpros.colorado@gmail.com

Containment Device Requirements

Orientation: Devices must be installed in the given orientation that they were tested for as allowed by the University of Southern California’s Foundation for Cross-Connection Control and Hydraulic Research (USC FCCC&HR).

USC FCCC&HR Approved: Town of Bayfield only allows devices approved by the USC FCCC&HR. Town of Bayfield does not provide a list of approved devices. However, each manufacturer should be able to tell you which of their devices are USC FCCC&HR approved and for what orientation.

Utility, Town, and State Standards: Installation of devices must meet all applicable requirements of:

- Town of Bayfield plumbing and building codes

- Article 12 of the Colorado Department of Health and Environment’s Colorado Primary Drinking Water Regulations.

Other

In no case shall it be permissible to have connections or tees between the meter and the containment backflow prevention assembly. Backflow prevention assemblies and methods shall be installed in a location which provides access for maintenance, testing and repair. Reduced pressure principle backflow preventers shall not be installed in manner subject to flooding. Provisions shall be made to provide adequate drainage from the discharge of water from reduced pressure principle backflow prevention assemblies. Such discharge shall be conveyed in a mater which does not impact waters of the state. All assemblies and devices shall be protected to prevent freezing. Those assemblies and methods used for seasonal services may be removed in lieu of being protected from freezing. The devices must be reinstalled and then tested by a certified cross-connection control technician prior to the service being activated. Where a backflow prevention assembly or method is installed on a water supply system using storage water heating equipment such that thermal expansion causes an increase in pressure, a device for controlling pressure shall be installed.

Test Report Forms

A test report template in either Word or PDF format is available on Town of Bayfield’s website: www.bayfieldgov.org. The full name of the report template is **Backflow Prevention Device Test & Maintenance Report**. It can be found on the home page under forms. For data entry efficiency, the Town of Bayfield asks that inspectors use only the Town’s form and provide the following information:

- Assembly or method type
- Assembly or method location
- Assembly make, model and serial number
- Assembly size
- Test date; and
- Test results including all results that would justify a pass or fail outcome
- Certified cross-connection control technician certification agency
- Technician’s certification number
- Technician’s certification expiration date
- Test kit manufacturer, model and serial number
- Test kit calibration date

Test Report Submission

Test reports must be sent or delivered to the Water Department, Town of Bayfield, 1199 Bayfield Parkway, PO Box 80, Bayfield, CO 81122. Generally, this may be done by fax, email, or postal mail. This office will only accept complete and legible forms. **DO NOT** send a report to this office without an address. "**Passed**" test reports must be sent to Town of Bayfield Water Department within 10 days. "**Failed**" tests must be verbally reported to the Town of Bayfield Water Department within 24 hours and the written reports must be sent within 3 days. Failed containment devices must be repaired or replaced and then retested. Depending on the

hazard Town of Bayfield may require repairs/ replacement be done immediately to prevent contamination. Non-compliance will result in discontinuation of water service to the property. Copies of records of test reports, repairs and retests, or replacements shall be kept by the customer for a minimum of three (3) years.

Waivers, Extensions, and Test Month Modifications

Please contact the Town of Bayfield Water Department for any of the following reasons:

- **Request a waiver** when the property does not fall into one of the affected property categories.
- **Request an extension** when more time is needed to test a device. Send a postal letter to the Town of Bayfield Water Department with the following:
 - Reason and length of time for the extension
 - Property address
 - Contact name
 - Contact phone number
- **Request a test month modification** when the month a device is due for testing needs to be permanently moved to a different month of the year. Some customers with multiple devices make this request in order to group all their testing to only one month out of the year. **Be aware:** Since containment devices are required to be tested annually (every 12 months), a device may need to be tested twice in the first year the test month is modified. For example, if the current month is April, the device is due to be tested in July, and the requested change is to October, then the device will have to be tested in July to fulfill its original annual testing requirement and then again in October to establish the new testing cycle.

Town of Bayfield Water Department

To contact Town of Bayfield’s Water Department, use one of these methods:

Phone	970-884-9544
FAX	970-884-2195
Email	kcathcart@bayfieldgov.org Place the words Backflow Concerns in the subject line of your email.
Mailing Address	Attn: Water Department Town of Bayfield PO Box 80 Bayfield, CO 81122

Surveys

To verify the accuracy of reported information or assess the need for containment devices, staff from the Town of Bayfield Water Department might conduct property surveys. Affected customers will be contacted in these

situations to arrange for a time for our staff to access the property. If potential cross connection is observed, property owners will be asked to comply with the Town of Bayfield cross connection requirements.

Resources

If you would like more information see Article 12 of the Colorado Primary Drinking Water Regulations at <https://www.colorado.gov/pacific/cdphe/water-quality-control-commission-regulations>