www.frasercolorado.com

Public Works Director
Russell Pennington
970-726-5491 x205

Water and Wastewater
Superintendent Adam Cwiklin
970-726-5491 x204
cell 970-531-1241

Town of Fraser
153 Fraser Avenue
P. O. Box 370
Fraser, CO 80442
970-726-5491

E-mail:
Russell Pennington
rpennington@town.fraser.co.us

Adam Cwiklin
acwiklin@town.fraser.co.us

TOWN OF FRASER
Cross-Connections

A public education supplement to the Town of Fraser Cross-Connection Control Program.

Safe drinking water is insured by effective cross-connection control.

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The Town of Fraser Cross-Connection Control Program addresses Article 12 of the Colorado Primary Drinking Water Regulations which prohibits uncontrolled cross-connection.

Water normally flows in one direction, from the public water system through the customer's plumbing system to a sink tap or other plumbing fixture.

Uncontrolled cross-connections allow pollutants or contaminants to flow the wrong way, back into the safe drinking water system.

Possible sources of cross-connection include:

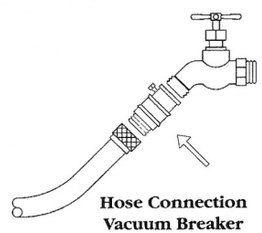
- Chemical spray applicators
- Submerged hoses
- Underground lawn irrigation systems
- Swimming pools
- Solar heat systems
- Fire sprinkler systems
- Service sinks
- Laboratory and aspirator equipment
- Hose connections (bibs)
- Photo developing equipment
- Boilers

Uncontrolled cross-connections can create serious health hazards.

The Town of Fraser Cross-Connection Control Program is in place for the health and safety of its customers and the safety of its water system.

The installation of backflow prevention assemblies on the customer's water service provides protection for the public water system. These assemblies are required in the Town of Fraser as part of its Cross-Connection Control Program.

Consumers may take additional safeguards to insure the safety of their plumbing system. For example, garden hoses and hand-held shower spray hoses can be fitted with hose connection vacuum breakers. These keep contaminants from entering the customer's plumbing.



Cross-connection controls keep our drinking water safe.

Cross-Connection — what is it? Backflow of any type, whether it is from backsiphon or backpressure

Backflow (backsiphon or backpressure) is the unwanted flow of non-potable substances (pollutants, chemicals, or any type of contaminant) into the consumer's plumbing system and/or the public drinking water distribution system.

Backsiphon can occur due to a *loss of pressure* in the water distribution system during a high withdrawal of water for fire protection, water main and plumbing system breaks or a water main shut-off for repair. The reduction of pressure creates a vacuum in the water lines. For example, if a hose bib is left open and the hose is submerged in a wading pool during these conditions, the pool's non-potable water could be siphoned into the plumbing system and back into the public water system if controls are not in place.

Backpressure can be created when a source of pressure, such as a pump, creates *pressure greater than* that supplied from the water distribution system. For example, a pump from a landscape pond could pump the pond's non-potable water into the potable water system if controls were not in place.

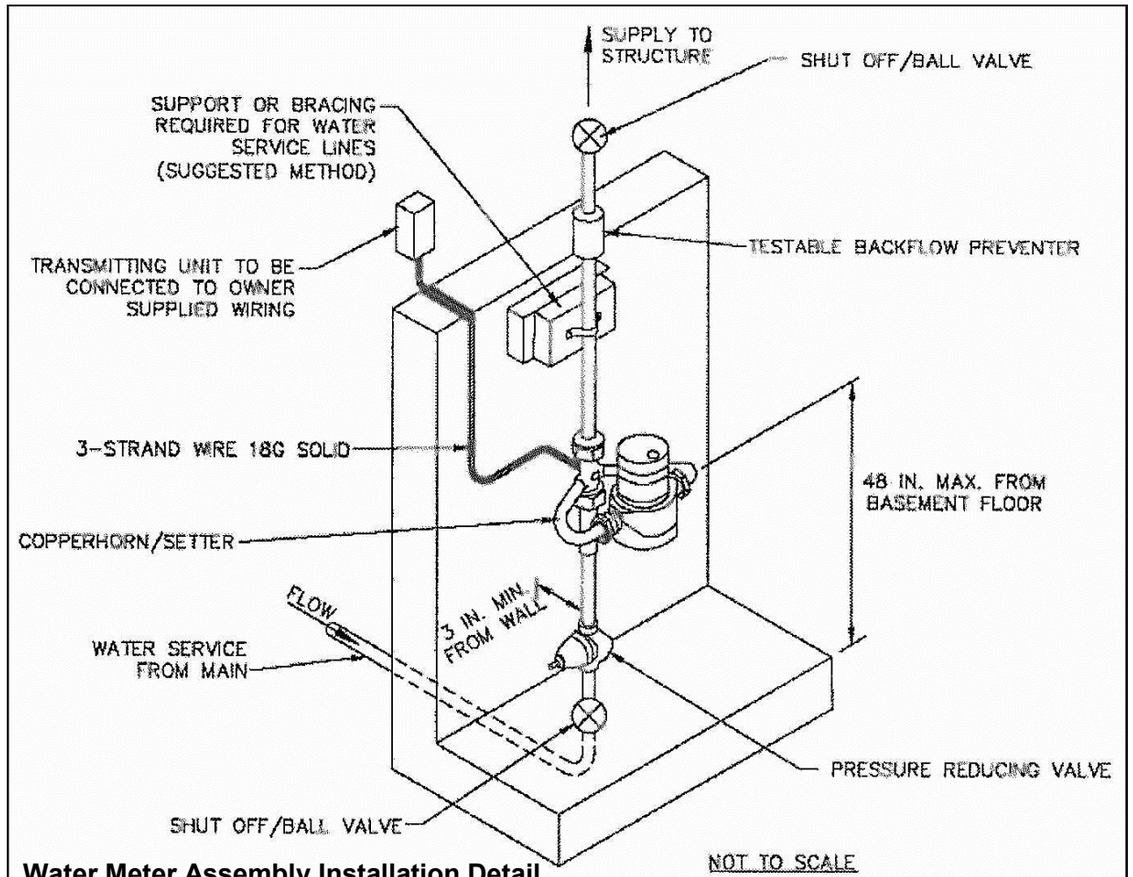
In addition to having a code-compliant backflow prevention assembly, you may wish to take the following precautions.

DO NOT:

- Submerge hoses in buckets, pools, tubs, sinks, ponds, etc.
- Use spray attachments without a backflow prevention device.
- Connect waste pipes from water softeners or other treatment systems to the sewer, submerged drain pipes, etc.
- Use a hose to unplug blocked toilets, sewers, etc.

DO:

- Keep the ends of hoses clear of all possible contaminants.
- If not already equipped with an integral (built-in) vacuum breaker, buy and install hose bib type vacuum breakers on all threaded faucets around your home. These devices are inexpensive and are available at hardware stores.
- Install an approved backflow prevention assembly on all underground lawn irrigation systems.
- A plumbing permit is required for the installation of an underground lawn irrigation system.



Water Meter Assembly Installation Detail from Fraser Municipal Code Chapter 14

At www.frasercolorado.com, Municipal Code, select Chapter 13, Section 13-2-250(h) for information regarding Backflow Prevention and the Cross-Connection Control Program.

Installation of a backflow prevention assembly immediately after the water meter prevents contaminants from your home or business water system from entering the public water system.