

### **8.01.39. Potable Water Supply.**

- 1. Purposes:**
  - a. To protect the public potable water supply of the City of Saratoga Springs from the possibility of contamination or pollution by isolation within the customer's internal distribution system(s) such contaminants or pollutants which could backflow into the public water systems;
  - b. To promote the elimination or control of existing cross-connections, actual or potential, between the customer's in-plant potable water system(s) and non-potable water system(s), plumbing fixtures, and industrial piping system(s); and
  - c. To provide for the maintenance of a continuing program of Cross Connection Control, which will systematically and effectively prevent the contamination or pollution of all potable water systems.
- 2. Responsibility.** The City shall be responsible for the protection of the public potable water distribution system from contamination or pollution due to the backflow of contaminants or pollutants through the water service connection.
- 3. Unlawful connection.** It shall be unlawful for any person to connect any part of the City's pressurized irrigation system to any part of a culinary water system so as to create a potential cross-connection whereby irrigation water could be introduced into any system that provides culinary water.
  - a. An exception may be made if the City determines that a particular water connection cannot connect to any part of the City's pressurized irrigation system.
  - b. If in the judgment of the City an approved backflow prevention assembly is required at the customer's water service connection or within the customer's private water system for the safety of the water system, the designated agent of the City shall give notice in writing to said customer to install such approved backflow prevention assembly(s) at specific locations(s) on his premises. The customer shall immediately install such approved assembly(s) at the customer's own expense, and failure, refusal, or inability on the part of the customer to install, have tested, and maintain said assembly(s) shall constitute grounds for discontinuing water service to the premises until such requirements have been satisfactorily met.
- 4. Building Department.**
  - a. The Building Department has the responsibility to not only review building plans and inspect plumbing as it is installed, but, it has the explicit responsibility of preventing cross connections from being designed and built into the structures within its jurisdiction. Where the review of building plans suggests or detects the potential for a cross connection being made an integral part of the plumbing system the

Building Department has the responsibility to require such cross connections be eliminated.

- b. The Building Department's responsibility begins at the point of service (the downstream side of the meter) and carries throughout the entire length of the customer's water system. The Building Inspector should inquire about the intended use of water at a point where one is actually called for by the plans. When and if such a cross connection is discovered, the Building Inspector shall require removal of said cross connection.

#### **5. Certified Backflow Assembly Technician.**

- a. Only certified Backflow Assembly Technicians shall do the testing, maintenance, and repair of City-approved backflow prevention assemblies. The Certified Technician must tag each double check valve, pressure vacuum breaker, reduced pressure backflow assembly, and air gap, showing the serial number of the assembly, date tested, and by whom. The technician's license number must also be on this tag.
- b. In the case of a customer requiring a commercially-available technician, any certified technician is authorized to make the test and report the results of that test to the customer, City, and the Utah Department of Environmental Quality Division of Drinking Water. If such a commercially tested assembly is in need of repair, a licensed plumber must make the actual repair.

#### **6. Definitions.**

- a. **"Approved Backflow Assembly"** means a backflow assembly accepted by the Utah Department of Health as meeting an applicable specification or as suitable for the proposed use.
- b. **"Auxiliary Water Supply":**
  - i. Means any water supply on or available to the premises other than the City's public water supply; and
  - ii. May include water from another municipality's public potable water supply or any natural source(s) such as a well, spring, river, stream, harbor, etc., or "used waters" or "industrial fluids." These waters may be contaminated or polluted or they may be objectionable and constitute an unacceptable water source over which the City does not have authority for sanitary control.
- c. **"Back Pressure"** means the flow of water or other liquids, mixtures, or substances under pressure into the distribution pipes of potable water supply system from any source(s) other than the intended source.
- d. **"Back-Siphonage"** means the flow of water or other liquids, mixtures, or substances into the distribution pipes of a potable water supply system from any source(s) other than the intended source caused by the reduction of pressure in the potable water supply system.

- e. **"Backflow"** means the reversal of the normal flow of water caused by either back-pressure or back-siphonage.
- f. **"Backflow Prevention Assembly"** means an assembly or means designed to prevent backflow.
  - i. Specifications for backflow prevention assemblies are contained within the Utah Administrative Code and the Cross Connection Control Program for Utah.
  - ii. All backflow prevention assemblies must be approved by the Utah Department of Health prior to installation.
  - iii. A listing of these approved backflow prevention assemblies is available from the Utah Department of Health.
- g. **"Designated Agent"** means the person designated to be in charge of the Water Treatment Department of the City of Saratoga Springs, is invested with the authority and responsibility for the implementation of an effective cross connection control program and for the enforcement of the provisions of this ordinance.

## 7. Requirements.

### a. Policy:

- i. No water service connection to any premises shall be installed or maintained by the City unless the water supply is protected as required by State laws, regulations, codes, and City ordinances. Service of water to any premises shall be discontinued by the City if an unapproved cross connection is found or if a City-approved backflow prevention assembly is not installed, tested, and maintained, or if it is found that a backflow prevention assembly has been removed, by-passed, or if any unprotected cross connection exists on the premises. Service will not be restored until such conditions or defects are corrected.
- ii. An approved backflow prevention assembly shall be installed on each service line to a customer's water system, at or near the property line or immediately inside the building being served. In all cases, the assembly will be installed before the first branch line leading off the service line, whenever the City deems the protection of the water supply to be in the best interest of the water supply customers.
- iii. The type of prevention assembly required shall depend upon the degree of hazard which exists at the point of cross connection, whether direct or indirect, as stipulated in the International Plumbing Code.

- iv. All presently installed backflow prevention assemblies which do not meet the requirements of this Section but were approved assemblies for the purposes described herein at the time of installation and which have been properly maintained, shall be removed and disconnected within one year of the passing of this ordinance.
- b. It shall be the duty and responsibility of the customer at any premises where backflow prevention assemblies are installed to have certified inspections and operational tests made at least once per year at the customer's expense. In those instances where the City deems the hazard to be great, the City may require certified inspections and tests at a more frequent interval. These inspections and tests shall be performed by a Certified Backflow Assembly Technician. It shall be the duty of the City to see that these tests are made according to the regulations set forth by the Utah Department of Environmental Quality Division of Drinking Water.
- c. Backflow prevention assemblies shall be installed in water supply lines to provide at least the degree of protection stipulated in the International Plumbing Code. All backflow prevention assemblies shall be exposed for easy observation and be readily accessible.
- d. All backflow prevention assemblies installed in a potable water supply system for protection against backflow shall be maintained in good working condition by the person or persons having control of such assemblies. Upon inspection, any assembly found to be defective or inoperative shall be replaced or repaired. No assembly shall be removed from use, relocated, or substituted without written approval of the City.
- e. All backflow prevention assemblies shall be tested within ten working days of initial installation.
- f. No backflow prevention assembly shall be installed so as to create a safety hazard, such as installation over an electrical panel, steam pipes, boilers, pits, or above ceiling level.

(Ord. 11-9; Ord. 08-12, Ord. 98-0813-001, Ord. 98-0625-1942, Ord. 98-0112-1)