

## Exhibit A to TMP 7640

### **CHAPTER 1426 – BACKFLOW PREVENTION PROGRAM**

#### **1426.01: PURPOSE AND POLICY.**

- (a) Purpose: The purpose of this document is to establish guidelines for protecting the public potable water supply from contamination or pollution. It seeks to isolate contaminants or pollutants within the consumer's water system that could backflow through the service connection into the public water system. Additionally, it provides for maintaining an ongoing cross-connection control program to systematically and effectively prevent contamination or pollution of both the public and consumer's potable water systems.
- (b) Policy: The City Manager is responsible for protecting the public potable water system from contamination due to backflow through the water service connection. If the City Manager determines that an approved backflow prevention device is necessary at the water service connection to any consumer's premises for the safety of the water system, the City Manager or their authorized representative will notify the consumer to install the approved device at each service connection to their premises. The consumer must install the approved device or devices at their own expense after receiving written notice. Any failure, refusal, or inability on the part of the consumer to install the device or devices immediately will result in the discontinuation of water service to the premises until the required device or devices have been installed.

#### **1426.02: DEFINITIONS.**

- (a) "Approved" means that a backflow prevention assembly, device, or method has been accepted by the supplier of water and the Director as suitable for the proposed use.
- (b) "Backflow" means the flow of water or other liquids, mixtures, or substances into the distributing pipes of a potable water supply from any source other than the intended source of the potable water supply.
- (c) "Backflow preventer" means any assembly, device, method, or type of construction intended to prevent backflow into a potable water system. This definition applies wherever "backflow prevention device" is used in this chapter.
- (d) "Consumer" means the owner or person in control of any premises supplied by or in any manner connected to a public water system.
- (e) "Consumer's water system" means any water system, located on the consumer's premises,
- (f) supplied by or in any manner connected to a public water system. A household plumbing system is considered to be a consumer's water system.
- (g) "Director" means the Director of Environmental Protection or the director's duly authorized representative.
- (h) "Premises" means any building, structure, dwelling or area containing plumbing or piping supplied from a public water system.

- (i) "Public water system" has the same meaning as in rule 3745-81-01 of the Administrative Code.
- (j) "Service connection," for the purposes of this chapter, means the terminal end of a service line from the public water system. If a meter is installed at the end of the service, then the service connection means the downstream end of the meter.
- (k) "Supplier of water" means the owner or operator of a public water system.
- (l) "Water system" means a system for the provision of piped water or process fluids, and includes any collection, treatment, storage or distribution facilities used primarily in connection with such system.

**1426.03: CROSS-CONNECTIONS.**

- (a) For the safety of the public water system, industrial properties, commercial properties, public properties and residential properties with in-ground sprinkler systems, in-ground swimming pools or other conditions, which in the opinion of the City Manager, may pose a backflow or cross-connection concern, shall be required to install approved backflow device.
- (b) No person is permitted to install or maintain a connection between a public water system or a consumer's water system and an auxiliary water system unless the auxiliary water system, the method of connection, and its use have been approved by City Manager, the supplier of water and the Director, as stipulated by Section 6109.13 of the Ohio Revised Code.
- (c) The City Manager is authorized to mandate the installation of an approved backflow prevention assembly or method at the water service connections to control backflow from the premises.
- (d) The owner and or occupant is responsible for installing the designated assembly or method at their own expense. Any failure, refusal, or inability to install the required assembly or method will justify the discontinuation of water service to the premises until the installation is completed and approved.
- (e) A public water system must establish and execute a backflow prevention and cross-connection control program in alignment with this chapter.

**1426.04: SURVEY AND INSPECTION.**

- (a) The supplier of water shall conduct or arrange for an initial assessment and periodic surveys or investigations of water use practices within a consumer's premises. This is to identify any actual or potential cross-connections in the consumer's water system that could allow contaminants or pollutants to backflow into the public water system, or to determine if a pollutional system, health, or severe health hazard to the public water system exists, as deemed by the supplier of water.
- (b) Consumers' premises must be accessible to City inspectors at all reasonable times for conducting surveys and investigations of water use practices and connections. These inspections are intended to identify any actual or potential cross-connections in the consumer's water system that could allow contaminants or pollutants to backflow into the public potable water system. These investigations are authorized by Ohio Administrative Code 3745-95-03.

- (c) Upon request by the water supplier or their authorized representative, the consumer shall provide information on water system, equipment and use practices within their premises to the supplier or the supplier's authorized representative.

**1426.05: SYSTEMS REQUIRING PROTECTION.**

- (a) An approved backflow preventer shall be installed on each service line to a consumer's water system service premises, where in the judgment of the supplier of water or the Director, a pollitional, system, health or severe health hazard to the public water system exists.
- (b) An approved backflow preventer shall be installed on each service line to a consumer's water system serving premises where any of the following conditions exist:
  - (1) An auxiliary water supply (domestic or fire).
  - (2) An actual or potential hazard to the public potable water system.
  - (3) Internal cross-connections.
  - (4) Residential, Commercial, Industrial Irrigation systems, inground pools.
  - (5) Repeated history of cross-connections.
  - (6) Any reason it is not possible to make a complete inspection; and
  - (7) Others specified by the City Manager or the Director of the Ohio Environmental Protection Agency.
- (c) No connection shall be installed or maintained that allows an auxiliary water supply to enter the public potable or consumer's water system unless the auxiliary water supply, its method of connection, and its use have been approved by the City Manager and the Director of the Ohio Environmental Protection Agency, as required by Ohio R.C. 6109.13.
- (d) Any heating, ventilating, and air conditioning (HVAC) equipment or process system with chemical additives must have an approved backflow prevention assembly installed. If this assembly is not installed, the City Manager or their authorized representative may mandate the installation of an approved backflow prevention assembly on the service line to the premises.

**1426.06: TYPES OF PROTECTION REQUIRED.**

- (a) The type of protection required shall depend on the degree of hazard. The minimum requirements are as follows:
  - (1) An approved air-gap separation shall be installed in special cases where there could be a severe health hazard. Such determination shall be made by the City Manager or his authorized representative.
  - (2) An approved reduced pressure backflow prevention assembly shall be installed where a public water system may become contaminated.
  - (3) An approved double check valve assembly shall be installed where a public water system may be polluted.

**1426.07: BACKFLOW PREVENTION DEVICES.**

- (a) Any backflow preventer required by The Ohio Administrative Code 3745-95 and City of Hudson Engineering Standards, Infrastructure Installation Chapter 1419 Section 2.16, must be of a model or construction approved by the supplier of water and conform to at least one of the following standards:
  - (1) For reduced pressure backflow prevention assemblies: the specific edition of the ANSI and the American Water Works Association (AWWA) standard, or the American Society of Sanitary Engineering (ASSE) standard, as referenced in rule 4101:3-13-01 of the Ohio Administrative Code.
  - (2) For double check valve assemblies: the specific edition of the ANSI and AWWA standards, or the ASSE and CSA standards, as referenced in rule 4101:3-13-01 of the Ohio Administrative Code.
  - (3) For reduced pressure detector assemblies: the specific edition of the ANSI and ASSE standards, or the CSA standards, as referenced in rule 4101:3-13-01 of the Ohio Administrative Code.
  - (4) For pressure vacuum breakers: the ANSI and the ASSE standard, or the CSA standard as referenced in rule 4101:3-13-01 of the Ohio Administrative Code.

**1426.08: INSTALLATION.**

- (a) Backflow prevention assemblies shall be installed at an approved location and in an approved manner. Where the manufacturer's specifications for installation conflict with Ohio Environmental Protection Agency standards, Ohio EPA standards shall prevail.
- (b) Backflow prevention assemblies installed on the service line to a consumer's water system shall be located on the consumer's side of the water meter, as close to the meter as is reasonably practical and prior to any other connection.
- (c) Backflow prevention assemblies shall be installed in accordance with City of Hudson Engineering Standards Chapter 1419 Section 2.16, Ohio Environmental Protection Agency standards, and other applicable regulations and standards.

**1426.09: VIOLATIONS AND NON-COMPLIANCE.**

- (a) The supplier of water shall deny or discontinue water service to any premises, after giving reasonable notice to the occupant, if any backflow prevention device required is not installed, tested, and maintained in a manner acceptable to the supplier of water. Water service will also be denied or discontinued if it is found that the backflow prevention device has been removed or bypassed, if an unprotected cross-connection exists on the premises, if a low pressure cut-off, low suction throttling valve, or variable speed suction limiting control is not installed and maintained in working order, or if the supplier of water, the Director, or their authorized representative is denied entry to determine compliance with this chapter.
- (b) Water service to such premises will not be restored until the consumer has corrected or eliminated the conditions or defects in accordance with, and to the satisfaction of, the supplier of water. To have water service reinstated, the certified plumber testing the backflow must be onsite to test the device(s) at the time of restoration.