

**CROSS CONNECTION CONTROL PROGRAM**

**LYDA WATER SYSTEM**

41-00619

**BLOCK 5 LOT 1 STEWARTS ADDITION**

**PENDLETON OR 97801**

**APPROVED: \_\_\_\_\_**

**DATE: \_\_\_\_\_**

**I. PURPOSE**

- A. To protect the public potable water supply served by the Lyda Water Company from the possibility of contamination or pollution by isolating, within the customers' internal distribution systems, such contaminants which could backflow or backsiphon into the public water system.
- B. To promote the elimination of , or control of, existing cross-connections, actual or potential, between the potable water system and sources of non-potable water or other hazardous substances.
- C. To provide for the maintenance of a continuing program of cross-connection control which will effectively prevent the contamination or pollution of all potable water systems by cross-connection.

**II. AUTHORITY**

- A. The Federal Safe Drinking Water Act of 1974, and the statutes of the state of the State of Oregon, Administrative Rules Chapters #333-61-071 and #333-61-072 state that the water supplier has the primary responsibility for the preventing of water from unapproved sources, or any other substances, from entering the public potable water system.
- B. Lyda Water Company, Rules and Regulations.

**III. RESPONSIBILITY**

The Lyda Water Company shall be responsible for the protection of the potable water distribution system from contamination or pollution due to the backflow or backsiphonage of contaminants or pollutants through the water service connection. If, in the judgment of the Lyda Water Company, an approved backflow device is required at the company's water connection to any customer's premises, the Lyda Water Company, or it's agent, shall give notice in writing to said customer to install an approved backflow prevention device at each service connection to each customer's premises. The customer shall, within ninety (90) days, install such approved device, or devices at customers own expense. Failure or refusal, or inability on the part of the customer to install said device or devices within ninety (90) days, shall constitute a ground for discontinuing water service to the premises until such device or devices have been properly installed. All re-connection fees are applicable.

## **IV. DEFINITIONS**

### **A. Approved**

Accepted by the Lyda Water Company as meeting an applicable specification stated or cited in this regulation, or as suitable for the proposed use.

### **B. Auxiliary Water Supply**

Any water supply, on or available, to the premises other than the supplier's approved public potable water supply.

### **C. Backflow**

The flow of water or other liquids, mixtures or substances, under positive or reduced pressure in the distribution pipes of a potable water supply from any source other than it's intended source.

### **D. Backflow Preventer**

a device or means designed to prevent backflow or backsiphonage. Most commonly categorized as air gap, reduce pressure principle device, double check valve assembly, pressure vacuum breaker, atmospheric vacuum breaker, hose bibb vacuum breaker, and double check with intermediate atmospheric vent. Any device must be classified as an approved backflow device by the Oregon Health Division.

#### **1. Air Gap**

a physical separation sufficient to prevent backflow between the free-flowing discharge end of the potable water system and any other system. Physically defined as a distance equal to twice the diameter of the supply side pipe diameter but never less than one inch.

#### **2. Atmospheric Vacuum Breaker**

A device which prevents backsiphonage by creating an atmospheric vent when there is either a negative pressure or a sub-atmospheric pressure on a water system.

#### **3. Double Check Valve Assembly**

An assembly of two identically-operating spring-loaded check valves with tightly-closing shut-off valves on each side of the check valves, plus properly located test cocks for the testing of each check valve.

**H. Contaminant**

Any substance that will impair the quality of the water to a degree that it creates a serious health hazard to the public leading to poisoning or the spread of disease.

**I. Cross-Connection**

Any actual or potential connection between the public water supply and a source of contamination or pollution.

**J. Division**

The State of Oregon Public Health Division.

**K. Fixture Isolation**

A method of backflow prevention in which a backflow preventer is located to correct a cross-connection in an in-plant location rather than at a water service entrance.

**L. Permit**

A document issued by Lyda Water Company which allows the use of a backflow preventer.

**M. Pollutant**

A foreign substance that if permitted to get into the public water system, will degrade it's quality so as to constitute a moderate hazard, or impair the usefulness or quality of the water to a degree which does not create an actual hazard to the public health but which does adversely and unreasonably affect such water for domestic use.

**N. Property Owner**

Any person who has legal title to, or license to operate or habitatin, a property upon which a cross-connection inspection is to be made or upon which a cross-connection is present.

**O. Representative**

The delegate in charge of the day-by-day operations of the Lyda Water Company who is vested with the authority and responsibility of the implementations of the cross-connection control program and the enforcement of the provisions of the Ordinance.

**P. Utility**

Lyda Water Company.



## **Q. Water Service Entrance**

That point in the Property Owner's water system beyond the sanitary control of the District, generally considered to be the outlet end of the water meter and always before any unprotected branch.

## **V. ADMINISTRATION**

- A. The Utility will operate a cross-connection control program, to include the keeping of necessary records, which fulfills the requirements of the Division's Cross-Connection Regulations.
- B. The Property Owner shall allow his property to be inspected for all possible cross-connections and shall follow the provisions of the Utilities program and the Division's regulations if a cross-connection is identified.
- C. If the Utility requires that the public supply be protected by containment, the Property Owner shall be responsible for water quality beyond the outlet end of the containment device and should utilize a backflow device for that purpose. He may utilize public health officials, or personnel from the Utility, or the delegated Representative, to assist in the survey of the facilities and to assist in the selection of proper fixture outlet devices, and the proper installation of these devices.

## **VI. REQUIREMENTS**

### **A. Utility**

- 1. On new installations, the Utility will provide on-site evaluation and/or inspection of plans in order to determine the type of backflow preventer, if any, that will be required, will issue a permit, and perform inspection and testing.
- 2. For premises existing prior to the start of this program, the Utility will perform evaluations and inspections of plans and/or premises and inform the owner by letter of any corrective action deemed necessary, the method of achieving the correction, and the time allowed for the correction to be made. Ordinarily, ninety (90) days will be shortened depending upon the degree of hazard involved and the history of the device in question.
- 3. The Utility will not allow any cross-connection to remain unless it is protected by an approved backflow preventer for which a permit has been issued and which will be regularly tested to insure satisfactory operation.

4. The Utility shall inform the Property Owner by letter, within ten (10) working days of the first inspection, of any failure to comply. The Utility will allow an additional fifteen (15) days for the correction. In the event the Property Owner fails to comply with necessary correction by the time of the second re-inspection, the Utility will inform the Property Owner by letter that the water service to the Property Owner's premises will be terminated within a period not to exceed five (5) days. In the event the Property Owner informs the Utility in writing of extenuating circumstances as to why the correction has not been made, a time extension may be granted by the Utility, but in no case will this extension exceed an additional thirty (30) days.

5. If the Utility determines at any time that a serious threat to the public health exists, the water service will be terminated immediately.

6. The Utility shall have on file a list of Private Contractors who are certified backflow device testers. All charges for these tests will be paid by the Property Owner.

#### B. Property Owner

1. The Property Owner shall be responsible for the elimination or isolation of all cross-connections on his premises.

2. The Property Owner, after having been informed by a letter from the Utility, shall at his expense, install, maintain, and test, or have tested, any and all backflow preventers on his premises.

3. The Property Owner shall correct any malfunctions of the backflow preventer which are revealed by periodic testing.

4. The Property Owner shall inform the Utility of any proposed or modified cross-connections and also any existing cross-connections of which the Property Owner is aware but was not found by the Utility.

5. The Property Owner shall not install a by-pass around any backflow preventer unless there is a backflow preventer of the same type on the by-pass. Property Owners shall not tamper with backflow devices.

6. The Property Owner shall install backflow preventers in a manner approved by the Utility.

7. The Property Owner shall install only backflow preventers approved by the Division.

8. Any Property Owner having a private well or other private water source, must have a permit if the well or source is cross connected to the Utility's system. Permission to cross connect may be denied by the Utility. The Property Owner may be required to install a backflow

preventer at the service entrance if a private water source is maintained, even if it is not cross connected to the Utility's systems.

9. In the event the Property Owner installs plumbing to provide potable water for domestic purposes, such plumbing must have its own backflow preventer installed if this plumbing is on the Utility's side of the backflow preventers.

## **VII. DEGREE OF HAZARD**

The Utility recognizes the threat to the public water system arising from cross-connections. All threats will be classified by degree of hazard and will require the installation of approved backflow prevention devices.

## **VIII. EXISTING IN-USE BACKFLOW PREVENTION DEVICES**

Any existing backflow preventer shall be allowed by the Utility to continue in service unless the degree of hazard is such as to supersede the effectiveness of the preventer, or result in an unreasonable risk to the public health. Where the degree of hazard has increased, as in the case of a residential installation converting to a business establishment, any existing backflow device must be replaced with an approved device suitable for that degree of hazard.

## **IX. PERIODIC TESTING**

- A. All testable backflow devices shall be tested and inspected at least annually by the Utility. All expenses involved will be the Property Owner's responsibility.
- B. Periodic testing as required shall be performed by a certified tester from a list provided by the Utility. This testing will be done at the Property Owner's expense.
- C. Any backflow preventer which fails during the periodic test must be repaired or replaced. When necessary repairs (or replacements) are completed, the device will be retested at the Property Owner's expense to insure correct operation. High hazard situations will not be allowed to continue if the backflow preventer fails the test and cannot be repaired immediately. In other than high hazard situations, a compliance date of not more than thirty (30) days after the test date will be established. The Property Owner is responsible for spare parts, repair tools, or a replacement device. Parallel installation of two (2) devices is an effective means of the owner



insuring uninterrupted water service during testing and repair of devices and is strongly recommended when the owner desires such continuity.

- D. Backflow prevention devices will be tested more frequently than specified in A. above if the Utility feels that there is a history of test failures. Cost of additional testing will be the responsibility of the Property Owner.

## **X. RECORDS AND REPORTS**

### **A. Records**

The Utility will initiate and maintain the following:

1. Master files on Property Owners' cross-connection tests and/or inspections.
2. Master files on cross-connections permits.
3. Copies of permits and permit applications.
4. Copies of lists and summaries supplied to the Division.
5. Initial listing of low hazard cross-connections.
6. Initial listing of high hazard cross-connections.

### **B. Reports**

The Utility will submit the following to the Division:

1. Annual summary of cross-connection inspections to the Division.

## **XI. FEES AND CHARGES**

The Utility will publish a list of fees or charges and make them available to the public.

These fees and charges may include, but are not limited to:

1. Inspection/Survey of Facilities
2. Permit for Backflow Preventer
3. Re-Connection Fee
4. Annual Testing of Backflow Devices
5. Periodic Testing of Backflow Devices by Certified Tester