



# Bonita Springs Utilities, Inc.™

## BACKFLOW PREVENTION CROSS CONNECTION CONTROL PROGRAM

February 16, 2015

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## **ACRONYMS AND ABBREVIATIONS**

ANSI	American National Standards Institute
ASSE	American Society of Sanitary Engineering
AWWA	American Water Works Association
BSU	Bonita Springs Utilities, Inc.
DCVA	double check valve assembly
DDCV	double detector check valve
F.A.C.	Florida Administrative Code
FCCCHR	Foundation for Cross-Connection Control and Hydraulic Research
FDEP	Florida Department of Environmental Protection
FWPCOA	Florida Water and Pollution Control Operations Association
OSHA	Occupational Safety and Health Administration
PWS	public water system
RP	reduced pressure principle
SBCC/SPC	Southern Building Code Congress/Standard Plumbing Code
SDWA	Safe Drinking Water Act
TREEO	Center for Training and Education for Environmental Occupations
UL	Underwriters Laboratories

## A. INTRODUCTION

The federal Safe Drinking Water Act (SDWA) requires public water systems (PWS) to meet and maintain specific potable water quality standards. To maintain compliance with the regulated water quality standards in the distribution system up to the point of delivery to the customer, Bonita Springs Utilities, Inc. (BSU) must take measures to ensure that no unauthorized cross connections or backflow of any liquid, gas, or other substance into the distribution system will occur from customers or other systems. In support of this essential requirement, the Florida Department of Environmental Protection (FDEP) has established regulations under Chapter 62-555.360(2), Florida Administrative Code (F.A.C.), which states:

“Community water systems, and all public water systems that have service areas also served by reclaimed water systems regulated under Part III of Chapter 62-610, F.A.C., shall establish and implement a routine cross-connection control program to detect and control cross-connections and prevent backflow of contaminants into the water system. This program shall include a written plan that is developed using recommended practices of the American Water Works Association set forth in Recommended Practice for Backflow Prevention and Cross-Connection Control, AWWA Manual M14, as incorporated into Rule 62-555.330, F.A.C.”

This Backflow Prevention Cross Connection Control Program is prepared by BSU in accordance with Chapter 62-555.360(2), F.A.C., and the American Water and Wastewater Association (AWWA) document entitled *Recommended Practice for Backflow Prevention and Cross-Connection Control* (AWWA Manual M14, Third Edition).

In the event of an emergency, BSU may be contacted at the following telephone number:  
(239) 992 0711.

**B. GOAL**

The goal of the BSU Backflow Prevention Cross Connection Control Program is to protect the potable water distribution system from an inflow of potable water which has passed beyond the public distribution system, and of any unapproved liquid, gas, or other substance. BSU's program aim is to protect BSU and its customers from cross connections and backflow that could potentially introduce contaminants harmful to the quality and safety of the community water supply system. To best protect the distribution system, BSU has adopted a "service protection" approach whereby all service connections must have a BSU-approved backflow prevention device.

Once the potable water has passed BSU's point of service (customer meter and approved backflow preventer), protection of the customer's potable water system is under the jurisdiction of one or more of the following agencies:

- The Division of Codes and Building Services' Licensed Plumbers, who has primary responsibility for customer water systems (new construction, alteration, and repair),
- The Public Health officer (Florida Department of Health Lee County Public Health Unit), who is responsible for ensuring that BSU operates the public potable water system in accordance with applicable rules and regulations,
- Health officials who are responsible for inspecting restaurants and other food preparation facilities (such as dairies), health care facilities (such as nursing homes), and the like.
- The Fire Marshall, who is responsible for fire protection systems downstream of connection to the potable water system,
- Safety inspectors (Occupational Safety and Health Administration [OSHA])
- Agricultural inspectors, who are responsible for the safe handling of chemicals used in growing and processing agricultural products.

## C. DEFINITIONS

- **AUXILIARY WATER SUPPLY**

Any water supply on or available to the premises other than the BSU public water supply (for example, a well used for irrigation, a pond pump, or a reuse water system). If an auxiliary water supply exists (which may or may not be safe in bacteriological or chemical quality), the PWS shall be protected against backflow and back-siphonage by the installation of a backflow prevention assembly in the service line appropriate to the degree of hazard.

- **BACK PRESSURE**

A pressure higher than the supply pressure, caused by a pump, multi-storied building or by other means, which may cause backflow.

- **BACK-SIPHONAGE**

A form of backflow resulting from a negative or sub-atmospheric pressure within a water system.

- **BACKFLOW**

The undesirable reversal of flow in a potable water distribution system as a result of a cross connection.

- **BACKFLOW PREVENTION DEVICE**

A device or means to prevent backflow into the potable water supply.

- **CERTIFIED BACKFLOW PREVENTION TESTER**

A Backflow prevention device technician who has completed a BSU-approved training program and holds certification from AWWA, FWPOA, TREEO, or other approved certificate for the testing and repair of backflow prevention devices and who is either a master plumber or works for a master plumber.

- **CROSS-CONNECTION**

A connection or potential connection between any part of a potable water system and any other water supply systems, sewer drain, conduit, pool, storage reservoir, plumbing fixture, or other device that contains or may contain contaminated or polluted water, sewage, or liquid of unknown or unsafe quality capable of back flowing into the public water system.

Bypass arrangements, jumper connections, swivel or changeable devices, hoses, and other temporary or permanent devices through which or because of which backflow or back-siphonage could occur.

- **CROSS-CONNECTION CONTROL**

The enforcement of an ordinance or other legal statement regulating cross-connections.

- **CUSTOMER**

Any person, firm, corporation, or government entity using or receiving water from the BSU potable water system.

- **DOUBLE DETECTOR CHECK VALVE (DDCV)**

A double check valve in an unmetered main supply line, usually a fire line, with a smaller parallel flow detection line consisting of a meter and a double check valve having less pressure drop than the main device.

- **DOUBLE CHECK VALVE ASSEMBLY (DCVA)**  
An assembly that consists of two internally loaded check valves, either spring-loaded or weighted, installed as a unit between two resilient-seated shutoff valves with properly located resilient-seated test cocks. This assembly shall only be used to protect against a non- health type hazard.
- **HAZARD, DEGREE OF**  
Derived from an evaluation of the potential risk to public health and the adverse effect of the hazard upon the PWS.
- **HEALTH HAZARD**  
A cross-connection or potential cross-connection involving any substance that, if introduced in the potable water supply, could cause death or illness, spread disease or have probability of causing such effects.
- **NON-HEALTH HAZARD**  
A cross-connection or potential cross-connection involving any liquid or substance that generally would not be a health hazard but would constitute a nuisance or be aesthetically objectionable, if introduced into the PWS.
- **PLUMBING OFFICIAL**  
Lee County Division of Codes and Building Services Code Enforcement Official, or City of Bonita Springs Building Department.
- **REDUCED PRESSURE PRINCIPLE ( R P ) ASSEMBLY**  
An assembly that consists of two independently acting check valves together with a hydraulically operating, mechanically independent pressure differential relief valve located between the check valves and below the first check valve. These units are located between two resilient-seated shutoff valves and equipped with properly located resilient-seated test cocks. This type of assembly is to be used for high hazard protection.
- **SERVICE CONNECTION**  
Piping connection between BSU's water main and a user's system.
- **WATER, NONPOTABLE**  
Water that is not safe for human consumption, or is of questionable quality.
- **WATER, POTABLE**  
Water from any source that is regulated by the appropriate health department, and approved for human consumption.
- **WATER PURVEYOR**  
The owner or operator of a public, potable water works system. As used herein, the water purveyor shall be BSU.

## **D. INSPECTIONS AND INSTALLATIONS**

### **GENERAL**

BSU incorporates the standards established in AWWA Manual M-14 to require backflow prevention at every service connection and to specify the type of device needed at each facility.

To maximize protection of public health and welfare from potential adverse backflow conditions, BSU classifies all points of service as "High Hazard" due to the potential for unforeseen circumstances. Consequently, a BSU-approved backflow preventer device is required on all service connections. These devices must be installed immediately downstream of the meter.

BSU reserves the right to make unannounced visits to premises when conducting cross-connection surveys where:

- It is felt that advance notice of the visit would likely result in an unrealistic representation of typical water use practices.
- Visits will not be disruptive such as in a small establishment.
- No difficulty is expected in locating the occupant or a knowledgeable representative.

### **INSPECTIONS FOR NEW CONSTRUCTION**

New construction plans are to have a plan review followed by site inspections by the Plumbing official to ensure conformance with the standard plumbing codes.

During the pre-construction plan review meeting, the BSU Engineering Department will detail the customer's responsibilities concerning the requirements for meter and backflow prevention device installation. Plan review and site inspections of the meter and backflow prevention assembly will be performed when deemed necessary by BSU to ensure compliance with the Backflow Prevention Cross Connection Control Program.

### **INSPECTIONS FOR NEW ACCOUNTS ON EXISTING FACILITIES**

Upon application for water service, BSU will initiate a meter and backflow inspection to confirm compliance with the Backflow Prevention Cross Connection Control Program. Should any devices or plumbing changes be required, a follow-up inspection will be made of the same facilities at a later date.

Results of the meter and backflow inspection will be made available to the customer. For installations having meters sized greater than 2-inch, the customer will be given a time limit for making the needed corrections.

BSU recommends that new and retrofit installations of backflow prevention devices greater than 2-inches in size, include installation of a strainer located immediately upstream of the backflow device. The purpose of the strainer is to reduce the risk of the backflow devices fouling due to both foreseen and unforeseen circumstances occurring to the water supply system, such as water main repairs, water main breaks, fires, periodic cleaning and flushing of mains, and the like.

## **E. RULES**

To protect the public water supply system from contamination due to cross-connections, BSU hereby establishes the following rules:

- The approval of BSU and any permits required by local, county, and/or state regulations must be obtained before any connection is made between the domestic supply and any contaminated, polluted, or auxiliary water system.
- No water piping supplied by any private water supply system or industrial piping system shall be connected to BSU's potable water system without approval from BSU and without installation of a BSU approved backflow preventer.
- All assemblies which consist of independent units assembled for the purpose of preventing backflow shall be BSU-approved and shall comply with the material, operational, and other specifications of AWWA, the American Society of Sanitary Engineering (ASSE), or the Foundation for Cross-Connection Control Research University of Southern California (FCCCHR.) as required for backflow prevention assemblies. In order to ensure proper installation, complete assemblies shall be constructed by the original manufacturer with all components as approved. Resilient-seated shut-off valves and test cocks are considered an integral part of the assembly.

**F. FEES**

The connection, plan review, and inspection fees will remain consistent with the fees listed in BSU's *Specification Manual for Potable Water and Sanitary Sewer Line Extensions*. These fees will apply to both new customers and existing customers.

## **G. TESTING OF BACKFLOW PREVENTION DEVICES**

### GENERAL

#### **Meter Sizes Greater Than 2 Inches**

As part of a complete cross-connection control program, it is the responsibility of customers with meter sizes greater than 2 inches (where reduced pressure [RP] backflow assemblies or double check valve assemblies [DCVA]) are installed) to have thorough inspections and operational tests made at least once per year or more often when deemed necessary by BSU. Test reports shall be delivered to BSU within 30 days of test completion. These inspections and tests shall be at the expense of the customer and be performed by a BSU-approved certified backflow prevention device technician using proper field test procedures with calibrated test equipment. All devices failing to meet the latest performance standards set forth by the AWWA (American National Standards Institute [ANSI/AWWA- C510-92 and C511-92], and the ASSE (ASSE- 1013, 1015 and 1020) or the FCCCHR at the University of Southern California shall be repaired and retested within 30 days of the last test. Devices that have a history of not meeting these performance standards shall be placed on a semi-annual or quarterly testing schedule. Devices that repeatedly fail to meet these standards shall be replaced with new devices at the expense of the customer within a timeframe specified by BSU.

If routine testing indicates wear or other malfunction, the device shall be overhauled. Such an overhaul should consist of the replacement of all seats, diaphragms, gaskets which are subject to wear, and any other parts found to be worn or otherwise in questionable condition.

Any maintenance or repair required as a result of testing shall be made at the expense of the customer and shall be performed by a BSU-approved certified backflow prevention technician. A copy of the maintenance and repair report shall be delivered to BSU within 30 days of completion of the work.

For customers who require an uninterrupted supply of water, BSU will require the installation of parallel backflow prevention assemblies of equal type to allow for testing, maintenance, and repair.

During normal flow conditions both assemblies will remain open. During testing, one device is left open while the other is tested. Sizing of parallel assemblies will be governed by customer need. Typically, the two parallel assemblies are one size smaller than the service size (for example, two 3-inch devices on a 4-inch service line).

All BSU-approved certified backflow prevention testers must be master plumbers or work for a master plumber.

#### **Meter Sizes 2 Inches or Less**

Residential customers having meter sizes of 2 inches or less will be tested on a 2-year cycle or more frequently at BSU's discretion. Testing fees are already included in the rates for residential services. A BSU-certified test technician will complete the testing and/or any required maintenance.

#### **Bypasses around Backflow Prevention Devices**

c. BSU will not allow an unprotected bypass around a backflow prevention device when the device is in need of testing, repair, or replacement.

### FIELD TEST PROCEDURES

Customers with a backflow preventer greater than 2-inches in size will coordinate with a BSU-approved certified tester for a mutually agreeable time for the water service to be shut off during testing. Special arrangements may have to be made so that interruption of service will not create a hardship.

BSU will contact residential customers on the same day prior to starting the test procedures if it is feasible and they are available.

Properly identify the backflow prevention device to be tested by checking ID tag for manufacturer, model and serial number. Inspect the device assembly for the required components:

- Approved device
- Approved shutoff valves
- Properly placed test cocks
- Approved piping of assembly
- A clearance of 2 ½ feet from shrubbery

The field test will be made using test equipment and test procedures conforming to those outlined in the *Manual of Cross Connection Control*, published by the FCCCHR at the University of Southern California. All test data shall be recorded on the proper BSU forms with copies forwarded to BSU within 30 days.

Following is a list of agencies and publications that provide field-test procedures for backflow prevention assemblies:

- American Backflow Prevention Association (ABPA) Tester Certification
- ASSE Professional Qualifications
- Canadian Standards Association (CSA)
- FCCCHR
- New England Water Works Section of AWWA, *Backflow Device Testing Procedures*
- U.S. Environmental Protection Agency (USEPA), *Cross-Connection Control Manual*, 1989
- University of Florida Center for Training, Research and Education for Environmental Occupations (TREEO), *Backflow Prevention: Theory & Practice*

#### FREQUENCY OF TESTING

It is essential that BSU-approved backflow prevention devices be tested regularly by an approved certified tester if these devices are to be relied upon. Testing and/or proper maintenance must be used:

- Immediately following installation.
- At least annually for commercial customers, biannually for residential customers, and more frequently where deemed necessary by BSU.
- Anytime devices have been disassembled for cleaning and repairs. Note: this work must be done by a BSU-approved certified technician.
- Where there is an indication that the device is not functioning properly (relief valve discharging, leaking, or any suspected damage to internal or external parts).

Forms may be obtained from BSU Engineering. Forms shall be completed and returned to BSU by the date indicated.

#### APPROVED CERTIFIED TESTERS

Certified backflow prevention device testers must present documentation of training and submit a completed BSU Backflow Prevention Device Tester registration form to BSU. Testers approved by BSU shall have demonstrated competency in testing and repair of all approved backflow prevention devices to BSU satisfaction. Testers shall be knowledgeable of laws, rules, and regulations applicable to backflow prevention devices, and have successfully completed at least one of the following:

- The University of Florida TREEO Center
- Florida Water and Pollution Control Operators Association (FWPCOA)
- Other certification programs approved by BSU

A list of BSU-approved certified backflow prevention device testers will be supplied to customers upon request.

BSU reserves the right to test any backflow prevention device at any time as a quality control measure. Testers are required to perform accurate testing and reporting and proper repair procedures. Testers will be removed from the list of BSU-approved backflow prevention device testers for failure to perform in accordance with BSU standards or if the Backflow Prevention Device Technician Certification expires.

## **H. NON-COMPLIANCE**

In the event that the customer does not abide by the standards set forth in the BSU Backflow Prevention Cross Connection Control Program, BSU reserves the right to either, discontinue water service immediately or issue a letter describing corrective action required and provide an allowed timeframe for completion, prior to discontinuing service.

Upon written notification from BSU, the customer shall act to have a BSU-approved certified technician install, repair, or test the backflow prevention device within the timeframe set by BSU. Any customer water service not in compliance with the Backflow Prevention Cross Connection Control Program at the end of the period allotted by BSU may be terminated immediately or at BSU's discretion. Service will be restored when BSU standards are met and compliance is confirmed by a BSU inspection.

**I. COMMERCIAL INSTALLERS (Greater than 2” meters and backflow preventers)**

The backflow prevention device commercial installers' responsibility is to assure proper installation of approved devices in accordance with the manufacturer's installation instructions and those provided by the BSU Backflow Prevention Cross Connection Control Program. The commercial installer is also responsible for making sure the device is working properly when it is installed. All RP assemblies and DCVAs shall be tested following installation by a certified backflow prevention device tester approved by BSU. The following data shall be supplied by the customer to BSU immediately after installation:

- Service address where device is located
- Owner
- Description of device's location
- Date of installation
- Type of device and size
- Make, model and serial number of device
- Test results

BSU may at its discretion independently inspect and test any new installation.

## **J. BACKFLOW PREVENTION DEVICE STANDARDS**

All backflow prevention devices, as described in Section C of this document approved for use by BSU shall comply with the standards set forth by one or more of the following agencies. BSU reserves the right to state which standards apply if and when a conflict exists between standards.

- ANSI/AWWA C510-Standard for Double Check Valve Backflow-Prevention Assembly
- AWWA C511-Standard for Reduced-Pressure Principle Backflow-Prevention Assembly
- Approved by FCCCHR
- SBCC/SPC Southern Building Code Congress/Standard Plumbing Code
- ASSE 1013, Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers
- ASSE 1015, Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies
- ASSE1024, American Society of Sanitary Engineers, Performance Requirements for Dual Check Backflow Preventers
- ASSE1047, Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies
- NSF Lead Free Certification
- Underwriters Laboratories (UL)/FM Approved

BSU will maintain a list of approved device manufacturers and models for use in the BSU potable water system.

## **K. TANK TRUCKS**

Temporary cross-connections are commonly created when water is drawn from the potable water system to fill tank trucks, dilute chemicals and pesticides, or rinse tanks. A properly tested RP device assembly shall be installed on any portable water hauling, spraying or cleaning unit that has the capacity of connection to any potable water supply, which does not contain a built-in approved air gap.

**L. PORTABLE WATER METERS**

All temporary, portable, or hydrant meters furnished by BSU shall have an approved RP device assembly installed immediately downstream of the meter. The contractor or customer will provide the necessary protection and physical support for the meter and backflow prevention device assembly.

No permanently installed meter shall be used for construction purposes without a proper backflow prevention device installed.

BSU maintains a metered bulk filling station for tank trucks at their West Water Reclamation Facility located at 25051 Tamiami Trail.

**M. FIRE LINE PROTECTION**

All new fire lines not having an auxiliary water supply will require DCVA or DDCV protection, depending on the size of the assembly. A DDCV shall be used where assemblies are greater than 2 inches.

BSU will review and approve fire Line backflow protection systems and the BSU Engineering Department Inspector will field inspect the completed installation for conformance to Fire Marshal-approved drawings.

All new fire lines using the potable water supply with an auxiliary water supply or pumper connection shall be required to have an approved fire rated RP detector assembly.

Any unacceptable backflow prevention devices on existing fire lines or those fire lines currently unprotected against backflow shall be required to comply with current BSU fire line protection and the standards as stated in section D of this document.

The fire department may in no way alter an installed and approved backflow prevention assembly on a fire line.

**N. RESIDENTIAL CUSTOMERS**

Residential customers, including those in multifamily units, are required to have backflow prevention devices installed at the downstream side of the meter. The resident will be charged for the meter and the backflow prevention device, but testing and maintenance are included in the monthly service fee.

**O. EMERGENCY SITUATIONS**

Should an emergency situation ever arise concerning backflow, BSU must be contacted in order to correct the problem. Information must first be passed on to the water plant and the distribution divisions so that they can contain the area. Then, the Director of Operations must be informed so that he or she can take the proper steps to notify the customers in the surrounding areas that might be affected by the backflow incident.

BSU may be contacted 24 hours per day, 7 days per week at (239) 992-0711.

**P. STANDARD BACKFLOW PREVENTION DEVICE DETAILS**

- 3/4-inch to 2-inch BSU Owned/Maintained
- 3-inch or Larger Meter and Backflow Prevention Device
- 3-inch or Larger Double Detector Check Valve Backflow Prevention Device for Fire Lines

**Q. ACCEPTABLE BACKFLOW PREVENTERS**

Table Q-1 presents information about acceptable backflow preventers.

**Table Q-1  
Acceptable Backflow Preventers**

<b>SIZE</b>	<b>Make</b>	<b>Model</b>	<b>Features</b>
Less than 2-inches	Wilkins	975XL2	Stainless Steel Handles Requirements per Section J.
2-inches	Wilkins	975XL2	Stainless Steel Handles Requirements per Section J.
Greater than 2-inches	Prior approval from BSU is Required.	Prior approval from BSU is Required.	Certified Lead Free, FCCHR AWWA, Underwriters Laboratories (UL)/FM Approved. Requirements per Section J.

## **APPENDIX A: FORMS**

The following forms are presented in this appendix:

- WARNING (Thermal Water Expansion)
- Backflow Assembly Requirement Notice
- Backflow Prevention Assembly Test and Maintenance Report
- Backflow Preventers Inspection Tag

## WARNING

BACKFLOW PREVENTION DEVICES INSTALLED ON CLOSED SYSTEMS WITH WATER HEATERS MAY CAUSE EXCESSIVE PRESSURE INCREASES DUE TO THERMAL WATER EXPANSION AND/OR WATER HAMMER DOWNSTREAM OF THE DEVICES. EXCESSIVE PRESSURE INCREASES MAY CAUSE DAMAGE OR FAILURE TO WATER HEATERS WHICH MAY BE HAZARDOUS. THE CUSTOMER OR THE PLUMBING CONTRACTOR SHOULD INSTALL ADEQUATE THERMAL EXPANSION DEVICES TO PREVENT POSSIBLE EXCESSIVE PRESSURE INCREASES WITHIN WATER HEATERS.

**BACKFLOW ASSEMBLY REQUIREMENT NOTICE**

Dear Customer:

**Notice:**        **You are required to install a backflow assembly as indicated below.**

\_\_\_\_\_ REDUCED PRESSURE PRINCIPLE ASSEMBLY on the water service line near the meter to your:

**DOMESTIC** \_\_\_\_\_ **IRRIGATION** \_\_\_\_\_ **FIRE LINE** \_\_\_\_\_

\_\_\_\_\_ DOUBLE CHECK VALVE ASSEMBLY on the water service line near the meter to your:

**DOMESTIC** \_\_\_\_\_ **IRRIGATION** \_\_\_\_\_ **FIRE LINE** \_\_\_\_\_

\_\_\_\_\_ DOUBLE DETECTOR CHECK on the fire line installed as close to the main as possible.

**Upon installation, all assemblies shall be tested by a BSU approved certified tester, as listed on the accompanying information.**

CROSS CONNECTION TECHNICIAN: \_\_\_\_\_

I, \_\_\_\_\_, have received a copy of this notice.

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

**BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT**

Customer: \_\_\_\_\_ Meter #: \_\_\_\_\_

Street Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Location of Assembly: \_\_\_\_\_

Type of Assembly: RP [ ] DC [ ] Size: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Serial No.: \_\_\_\_\_

Check Valve #1	Relief Valve	Check Valve #2	Pres. Vacuum Breaker
<input type="checkbox"/> leaked <input type="checkbox"/> closed tight differential pressure across check valve _____psi	opened at: _____psi did not open [ ]	<input type="checkbox"/> leaked <input type="checkbox"/> closed tight differential pressure across check valve _____psi	air inlet opened at _____psi did not open [ ] check valve: leaked [ ] held tight at _____psi
<input type="checkbox"/> cleaned only replaced:  rubber kit CV assembly <input type="checkbox"/> or disc <input type="checkbox"/> o-rings seat spring <input type="checkbox"/> stem/guide retainer lock nuts <input type="checkbox"/> other <input type="checkbox"/>	<input type="checkbox"/> cleaned only replaced:  rubber kit <input type="checkbox"/> CV assembly <input type="checkbox"/> or disc <input type="checkbox"/> o-rings seat spring <input type="checkbox"/> stem/guide retainer lock nuts <input type="checkbox"/> other <input type="checkbox"/>	<input type="checkbox"/> cleaned only replaced:  rubber kit CV assembly <input type="checkbox"/> or disc <input type="checkbox"/> o-rings seat spring <input type="checkbox"/> stem/guide retainer lock nuts <input type="checkbox"/> other <input type="checkbox"/>	<input type="checkbox"/> cleaned only replaced:  rubber kit <input type="checkbox"/> CV assembly <input type="checkbox"/> or disc <input type="checkbox"/> o-rings seat spring <input type="checkbox"/> stem/guide retainer lock nuts <input type="checkbox"/> other <input type="checkbox"/>
differential pressure across check valve _____psi	opened at: _____psi	differential pressure across check valve _____psi	air inlet _____psi chk. valve _____psi

**NOTE: ALL REPAIRS SHALL BE COMPLETED WITHIN TEN (10) DAYS.**

REMARKS: \_\_\_\_\_

I hereby certify that this data is accurate and reflects the proper operation and maintenance of the assembly.

Tester: \_\_\_\_\_ Cert. #: \_\_\_\_\_ Date: \_\_\_\_\_

**BACKFLOW PREVENTERS INSPECTION TAG**

**DO NOT REMOVE**

<b>3/4</b>	<b>1</b>	<b>1½</b>	<b>2</b>
			<b>JAN</b>
			<b>FEB</b>
<b>Bonita Springs Utilities</b>			<b>MAR</b>
<b>11860 E. Terry St.</b>			<b>APR</b>
<b>Bonita Springs, FL 34135</b>			<b>MAY</b>
<b>(239) 992-0711</b>			<b>JUNE</b>
			<b>JULY</b>
			<b>AUG</b>
			<b>SEPT</b>
<b>Tested By</b> _____			<b>OCT</b>
			<b>NOV</b>
			<b>DEC</b>
<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>

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**BACKFLOW PREVENTION  
CROSS CONNECTION  
CONTROL PROGRAM**

Primary contact for the BSU Backflow Cross Connection Control Program are:

Emergency Contact Phone Number: (239) 992-0711.