

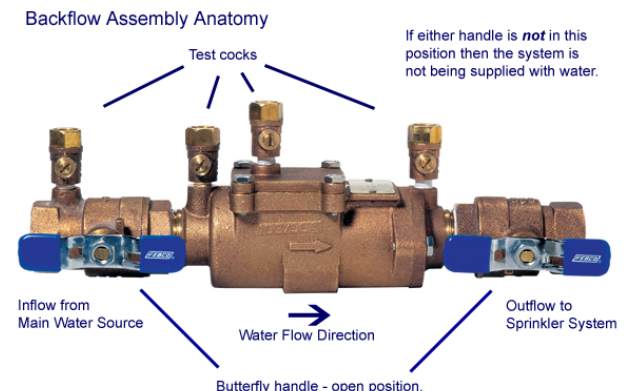
Cross-Connection Prevention Program

City of Albany



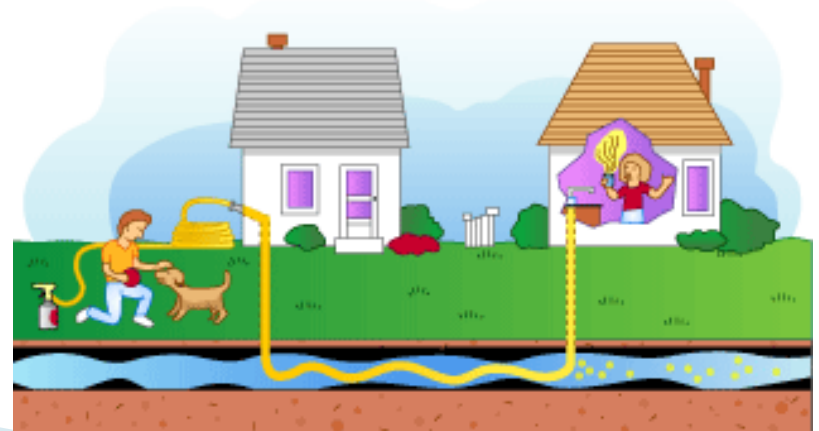
Cross-Connection & Public Safety

- ▶ A cross-connection can happen when the drinking water system is or could be connected to anything that may contain non-potable water.
- ▶ Cross connection can lead to contamination when the reversal of flow, called **backflow**, can allow contaminated water to flow back into the supply piping, threatening health and safety.



Two types of backflow

- ▶ Backpressure can occur when the potable water supply is connected to another system operated at a higher pressure or has the ability to create pressure.
 - Booster pumps
 - Pressure vessels
 - Elevated plumbing
- ▶ Backsiphonage is caused by negative pressure in the supply line to a facility or plumbing fixture.
 - Water lines break
 - Repairs to water line
 - Shutting off water supply



When is a backflow device required?

Albany Municipal Code requires backflow assembly devices for:

- ▶ All irrigation systems
- ▶ Fire protection systems
- ▶ Wells
- ▶ Some types of new
- ▶ Depends on hazard
- ▶ OHA table 42



on

City of Albany's Program

- ▶ In 2002, operations staff took over the cross-connection program from the engineering department.
- ▶ There were 1,950 devices at this time.
- ▶ One person certified, office staff sending letters
- ▶ Some tracking was done,
but with no follow-up
- ▶ No test done, try again next year?

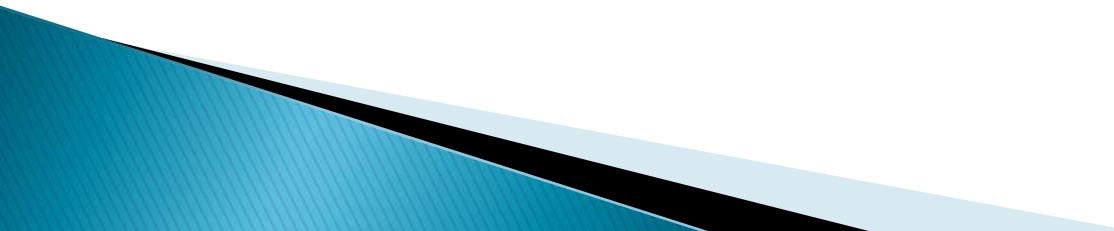


Customer Confusion

- ▶ Letter went out with the wrong dates and times
- ▶ 76 phone calls came in one day



Responsibility & Training

- ▶ It became necessary to have one person responsible for the program.
 - ▶ A tester must be licensed and trained as Oregon Health Authority (OHA) certified cross connection tester.
 - ▶ Local training was available and we had two staff attend.
 - ▶ Initially two days a week was dedicated to the program, which turned into a full time job for one person.
- 

Changes to the Program 2005

- ▶ At least 2 field crew with cross connection specialist and cross connection tester certification
- ▶ Obtain better customer education materials
- ▶ A stand alone maintenance management software program for cross connection
- ▶ A commitment to keep the cross connection person updated on new rules and become part of cross connection professional groups
- ▶ Start a city wide survey program to find unprotected and under protected cross connections
- ▶ Test city owed cross connection assemblies
- ▶ Develop a new notice program and be consistent in its application



30 Day Notice



PUBLIC WORKS

ENVIRONMENTAL SERVICES
FACILITIES MAINTENANCE
INDUSTRIAL PRETREATMENT
STREET MAINTENANCE
WASTEWATER COLLECTION
WASTEWATER TREATMENT
WATER DISTRIBUTION
310 Waverly Drive NE
Albany, OR 97321-4746
P.O. Box 490
Albany, OR 97321-0144
www.cityofalbany.net

(541) 917-7600
FAX (541) 917-7615

ALBANY-MILLERSBURG
WATER TREATMENT
33883 Berry Drive NE
P.O. Box 490
Albany, OR 97321-0144

(541) 704-2336
FAX (541) 791-3439

WATER TREATMENT
300 Vine Street SW
P.O. Box 490
Albany, OR 97321-0144

(541) 917-7601

03/08/16

CITY of ALBANY
310 WAVERLY DR NE
Albany, OR 97321

Dear Customer,

RE: BACKFLOW TEST

Our records indicate that we have not received the annual test report on the following backflow prevention assembly:

310 WAVERLY DR NE
Albany, OR 97321

Type	Size	Make	Model	SN	Due
DCVA	2"				10/31/2016

FRONT of OFFICE EAST SIDE by FENCE

In order for backflow prevention assemblies to operate efficiently they must be tested and serviced when required to be in compliance with 11.01.225 of the Albany Municipal Code and Oregon Administrative Rule 333-061-0070. The listed backflow prevention assemblies must be tested annually by a certified and licensed tester.

This letter is to give you notice that the requested tests must be completed and the necessary inspection forms returned to this office by 04/07/16.

Included for your convenience is a list of current assembly testers in the area. If you have any questions, feel free to contact me at the above address or you may phone 541-791-0031

Sincerely,

Bret Johnson

15 Day Notice



03/08/16

CITY of ALBANY
310 WAVERLY DR NE
Albany, OR 97321

PUBLIC WORKS

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(541) 917-7601

Dear Customer,

RE: BACKFLOW TEST

This is our second notice in this regard.

Our records indicate that we have not received the annual test reports on the following backflow prevention assembly:

310 WAVERLY DR NE
Albany, OR 97321

Type	Size	Make	Model	SN	Due
DCVA	2"				10/31/2016

FRONT of OFFICE EAST SIDE by FENCE

In order for backflow prevention assemblies to continue to operate efficiently they must be tested and serviced when required. As well, in order to comply with **11.01.225 of the Albany Municipal Code**, the listed backflow prevention assemblies must be tested annually by a certified and licensed tester.

This letter is to give you notice that the requested tests must be completed and the necessary inspection forms returned to this office within **15 days** of the date of this letter.

Included for your convenience is a list of current assembly testers in the area. If you have any questions, feel free to contact me at the above address or you may phone **541-791-0031**.

Sincerely,

Bret Johnson

7 Day Notice



PUBLIC WORKS

ENVIRONMENTAL SERVICES
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(541) 917-7601

March 8, 2016

CITY of ALBANY
310 WAVERLY DR NE
Albany, OR 97321

Dear Customer,

RE: BACKFLOW TEST-THIRD NOTICE-POSSIBLE WATER SERVICE DISRUPTION

Our records indicate that we have not recieved the annual test reports on the following backflow prevention assenbly:

310 WAVERLY DR NE
Albany, OR 97321

Type	Size	Make	Model	SN	Due
DCVA	2"				10/31/2016

FRONT of OFFICE EAST SIDE by FENCE

In order for backflow prevention assemblies to operate efficiently they must be tested and serviced when required. To be in compliance with **11.01.225 of the Albany Municipal Code and Oregon Administrative Rule 333-061-0070** the listed backflow prevention assemblies must be tested annually by a certified and licensed tester.

This letter is to give you notice that the requested test must be completed and the necessary inspection forms returned to this office within **5 days** of the date of this letter or the water service to the subject premises may be discontinued without further notice.

Included for your convenience is list of current assembly testers in the area. If you have any questions, feel free to contact me at the above address or you may phone **541-791-0031**.

Sincerely,

Bret Johnson

48 Hour Shut Off Notice



City of Albany

48 Hour Water Shut Off Notice

In the past several months you should have received notices regarding required backflow device testing. If you have a test scheduled please contact us to let us know when and by whom your device will be tested. If we do not receive test results or if you do not contact us by

_____ at _____

your water will be shut off on

_____ at _____.

If you have any questions please contact me at the number below.

Bret Johnson
541-791-0031

Overhauling the Program

- ▶ The first year managing the program led to an overhaul
- ▶ Additional changes were made to accommodate customers
- ▶ The second year we lost all the first year's data and the date changes customers requested



Site Review and Assistance

- ▶ During a site review, it will be determined if a customer:
 - Has a assembly device
 - Needs an assembly device
 - Does not have an assembly device, then what are the next steps to get one to protect the drinking water



New backflow devices

- ▶ When new construction occurs, the permit records are sent to me to be reviewed to determine if a backflow assembly device is required.
- ▶ We work with the plumbing inspectors and water distribution crews to identify possible backflow issues.

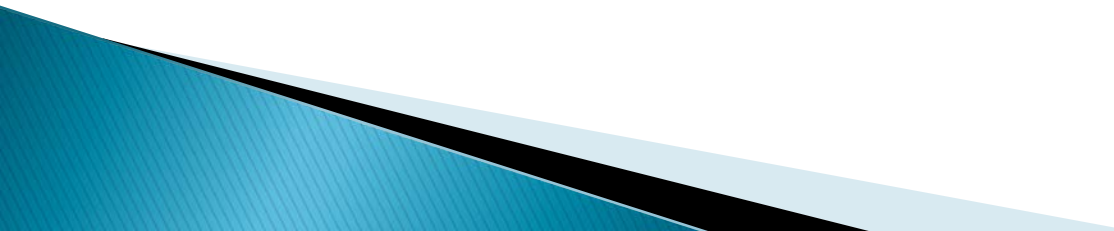


Compliance of devices

- ▶ Customers are required to have the device tested at least once a year at the owner's expense by a licensed backflow tester and repaired if damaged
- ▶ The results must be sent to the City's backflow program manager.



Current Cross-connection Prevention Program

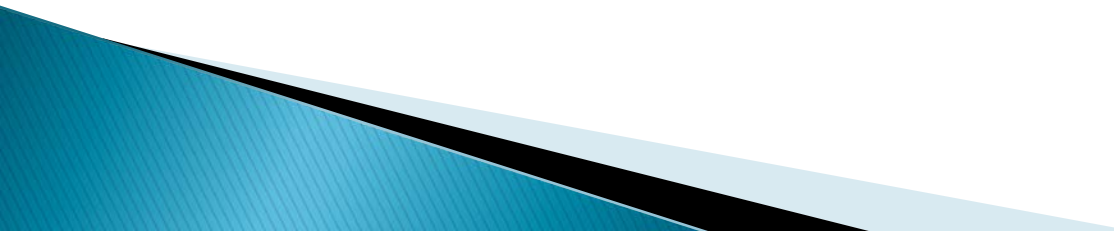
- ▶ The program currently has 6,780 cross connection control devices.
 - ▶ 100% are in compliance
 - ▶ The program provides education, advice and follow-up with the customers who have a cross connection control device.
 - ▶ One backflow incident since 2005
- 

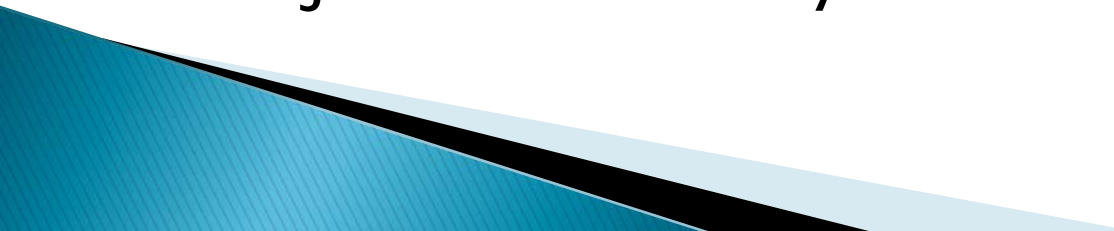
Survey of System

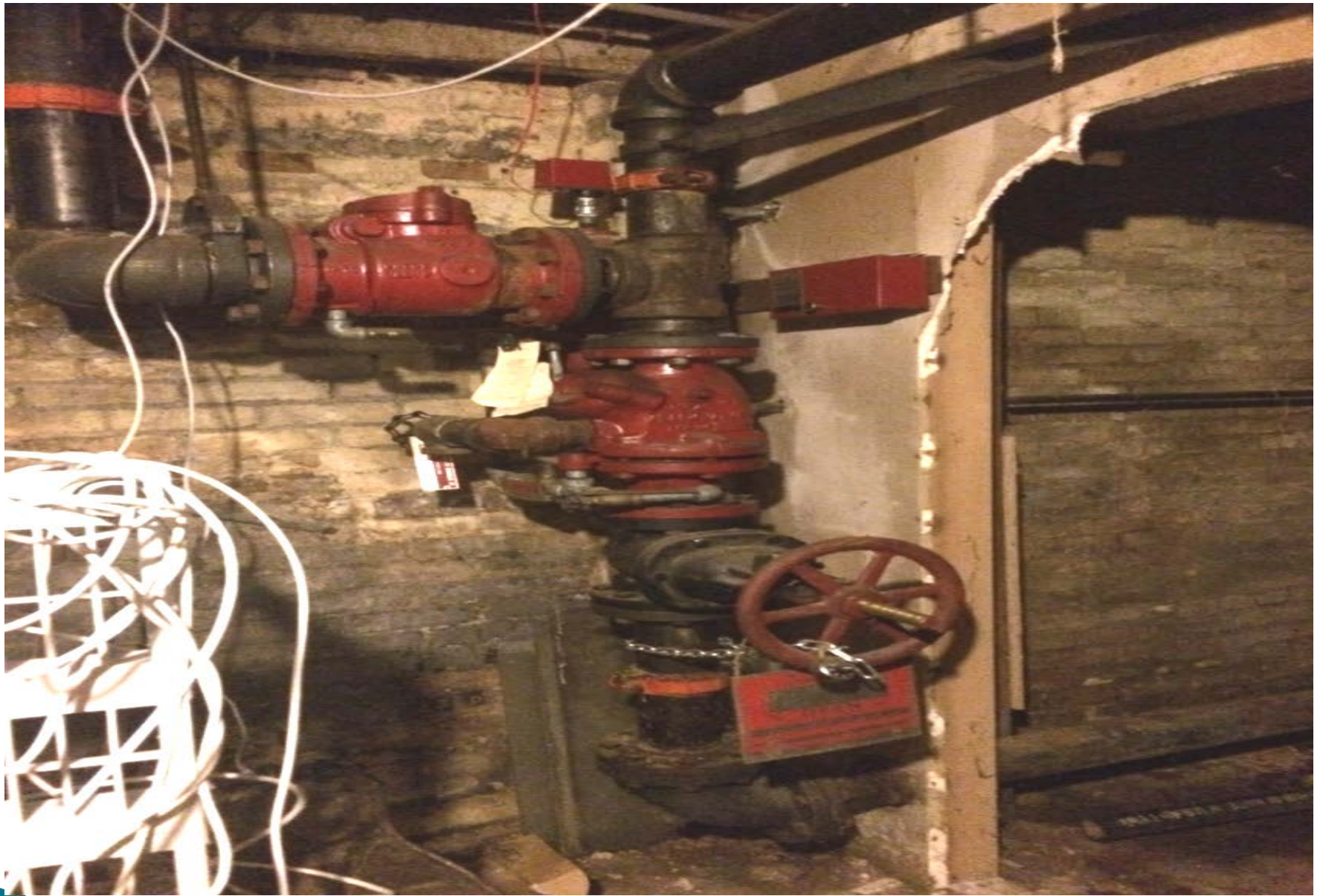
- ▶ In 2006, a cross connection survey of the system began, which had never been done!!
- ▶ When surveying we do not go on property
- ▶ We found all types of situations.
 - Some had no devices
 - Others wanted to be grandfathered in
 - Even more felt they helped build this city why should they have to have a device
 - Under protected fire lines in
 - downtown Albany



Fire line Assembly Replacement Program

- ▶ During survey 12 properties were indentified as having fire lines with no assemblies or assemblies that did not meet proper protect levels. Non testable single checks
 - ▶ Many of these in core area and are multiple storey buildings. Some with fire systems and plumbing dating back to the 1930's.
 - ▶ 2 mobile parks with private fire hydrants and wells on site.
- 

- ▶ Downtown Albany has become a fairly depressed area with big box stores in Albany
 - ▶ Meetings of how to best approach problem of gaining compliance for fire lines.
 - Owner paid
 - Offering loans
 - Economic development funds
 - ▶ Decision to go to City Council to ask to use economic development funds for assembly replacement. City Council passed and up to \$150,000.00 was appropriated for the project.
 - ▶ Project is currently out for bid.
- 



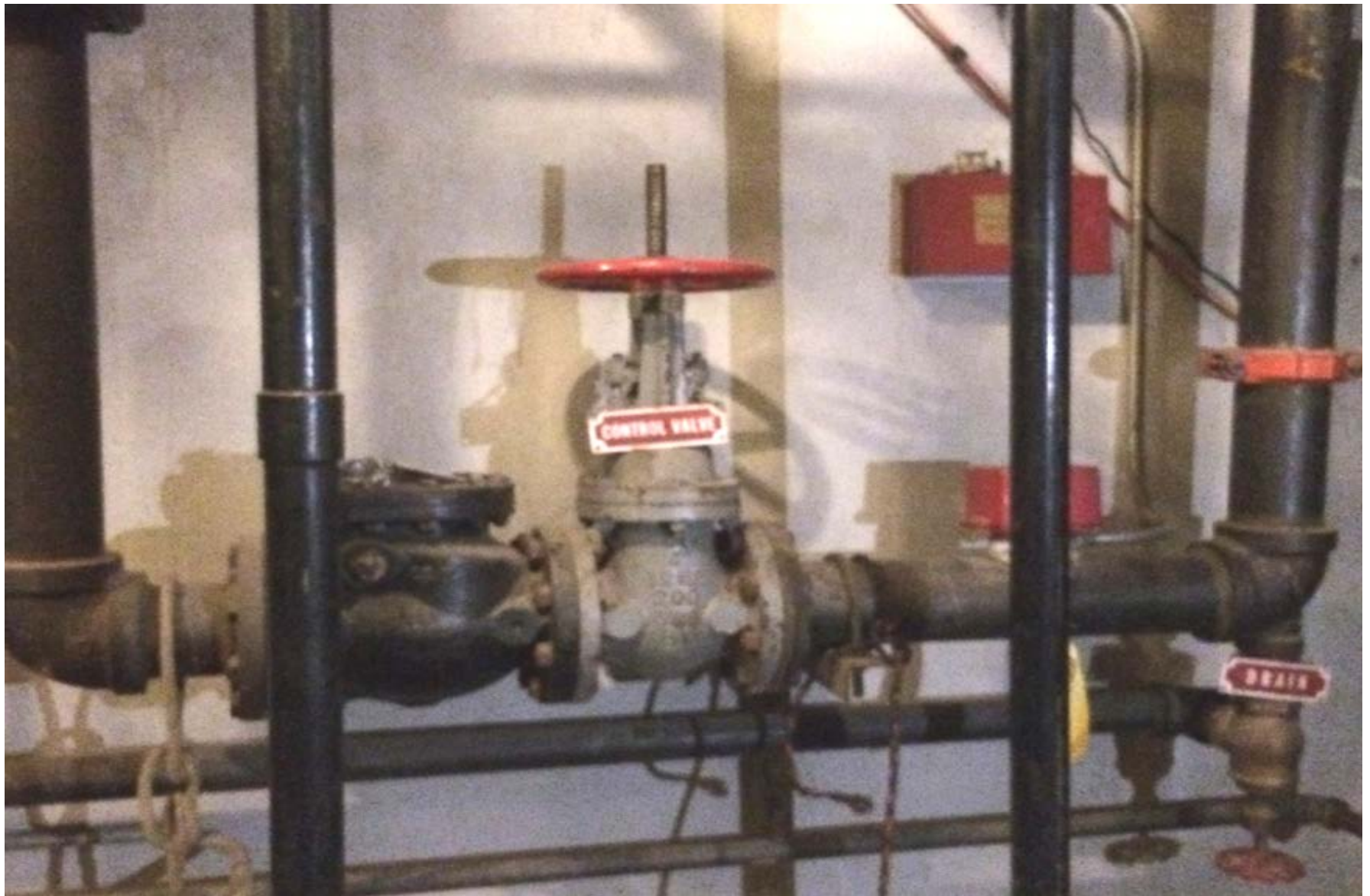


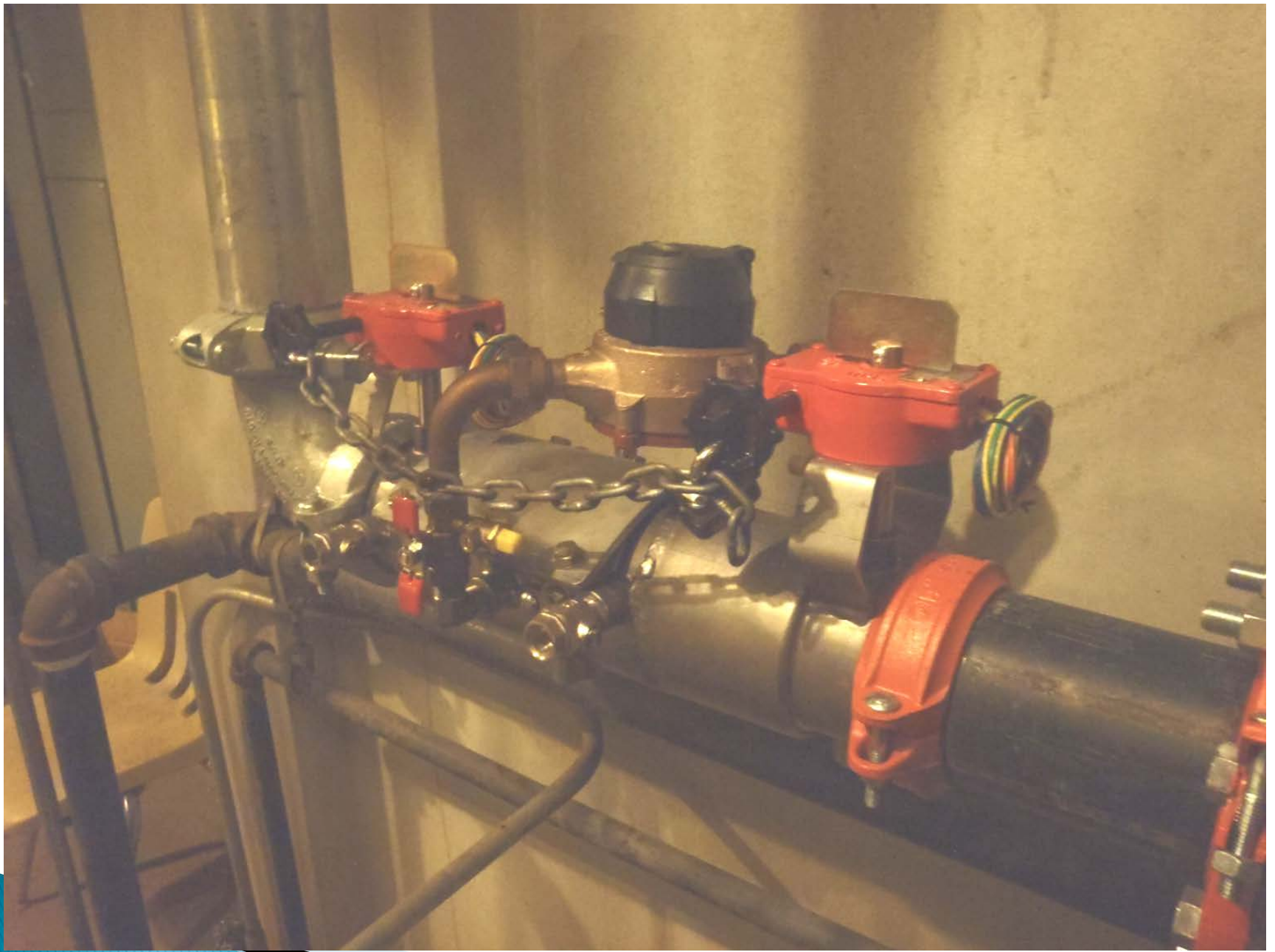








































Questions

Bret Johnson
City of Albany
Backflow Program Manager
Bret.Johnson@cityofalbany.net

