

**Operator Training Committee of Ohio, Inc.**

# **Procrastinator Workshop**

**Thursday, December 8, 2016**

**&**

**Friday, December 9, 2016**



*“Do not allow your legal requirements for continuing education be mistaken for your*

*continuing education.”*



# RCAP's Webpage

OEPA-B397326-X Utility Management -Part I Management Capacity	2.00
OEPA-B397332-X Utility Management -Part III Financial Capacity	1.75
<u>OEPA-B397329-X Utility Management-Part II Technical Capacity</u>	<u>1.25</u>
Subtotal	5.00

## Ohio EPA's Webpage

<u>Class A Water Operator Training (OM)</u>	<u>6.00</u>
<u>Total</u>	<u>11.00</u>



# OTCO

The primary focus of the Operator Training Committee of Ohio, Inc. is to design, develop, and deliver various types of training programs for individuals in water and wastewater utility occupation, in business, industrial, and government.

## OEPA

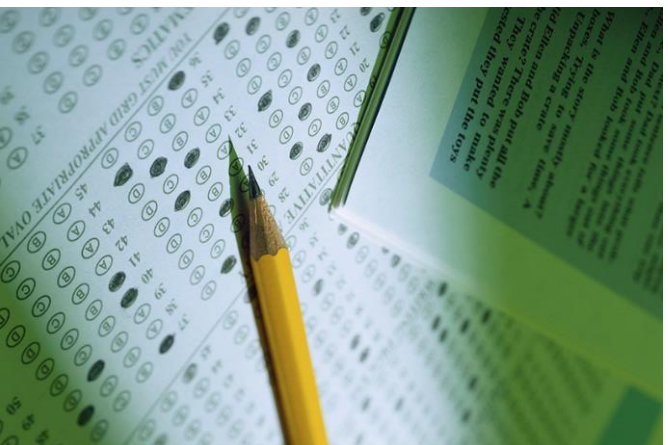
Our mission is to protect the environment and public health by ensuring compliance with environmental laws and demonstrating leadership in environmental stewardship.



# OhioEPA



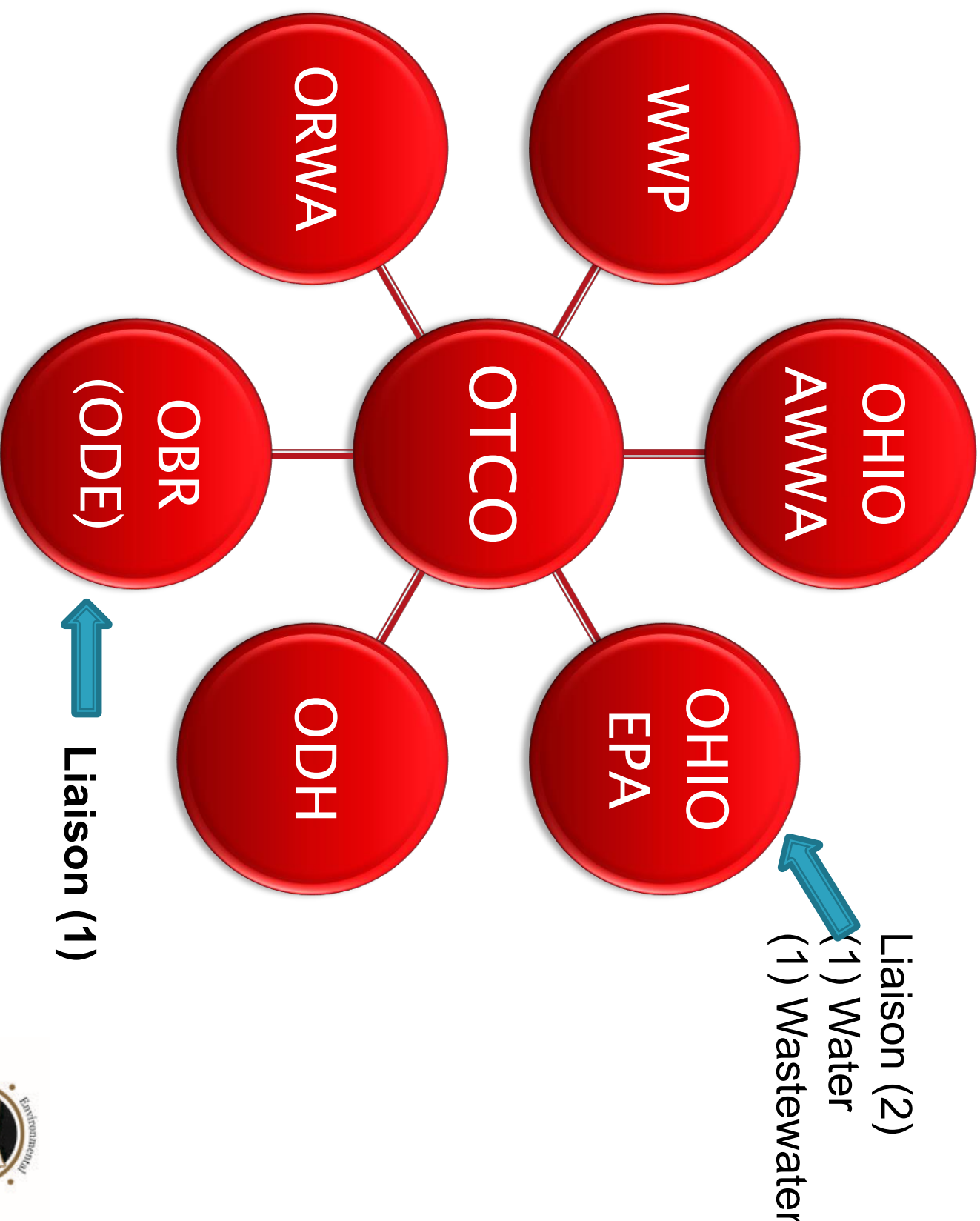
## Operator Certification



## Operator Training



# OTCO's Board of Trustees & Liaisons



# Board of Trustees (2016-2017)

Steve Elliott, Marietta (WWIV)

Tom Taylor, Madison County (WWIII)

George Culver, Lake Waynoka (WIII/WWI)

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# Environmental Careers

## Water Environment Technician

Careers in drinking water and  
wastewater treatment operations





# Exit Boomers



# Enter Millennials



Broadens the scope of services available to the  
wastewater Professionals



Establish a state wide operator based associates degree program approved by the Ohio Board of Regents while allowing life learning credit for current certified Ohio operators

**Associates Degree Water and Wastewater Environmental Science**  
elements of program

Principles of Biology

Communications COM 101 (online)

English Comp I

ENG 101 (online)

English Comp II (online)

College Algebra

Environment Sustainability

Environmental Field Biology

Chemistry I

Psychology PSY 101 (online)

College Trig/Geometry

Technical Writing ENG

Environmental Geology(online)

Statistics MTH 128 (online)

Environmental and Natural Resources Policy, Law & Ethics (online)



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### **Associates Degree Water and Wastewater Environmental Science**

- 1) OTCO Basic Wastewater
- 2) OTCO Wastewater Collection
- 3) OTCO Basic Water
- 4) OTCO Water Distribution
- 5) OTCO Basic Math Wastewater & Water
- 6) OTCO Basic Lab
- 7) ~~OTCO Utility Management~~

21 Credit Hours

46 Electives Hours

**67 Total Hours**



**August 13, 2015**



## **Ready To Work**

Offered through WSOS Community Action Commission, Ready to Work provides career training for long-term unemployed or underemployed, as well as veterans or spouses of veterans. Ready to Work offers training for residents of Allen, Crawford, Defiance, Fulton, Hardin, Hancock, Henry, Lucas, Ottawa, Paulding, Putnam, Sandusky, Seneca, Van Wert, Williams, Wood, and Wyandot counties.



# INFOhio

## tools to support



FOR A HIGH SCHOOL DIPLOMA

INFOhio provides instructional tools that put reliable digital content into context and promote information literacy, digital literacy, and college and career readiness.

Content  
Mastery

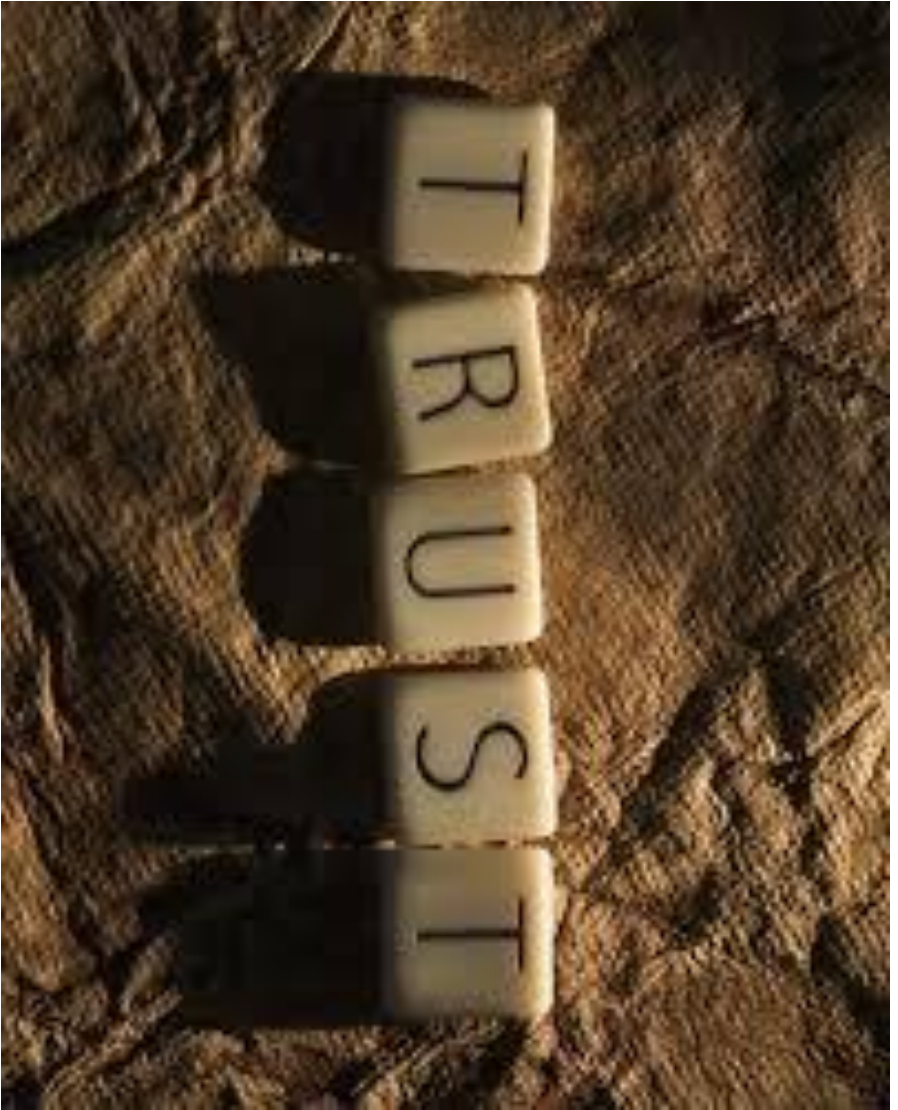
College  
Readiness

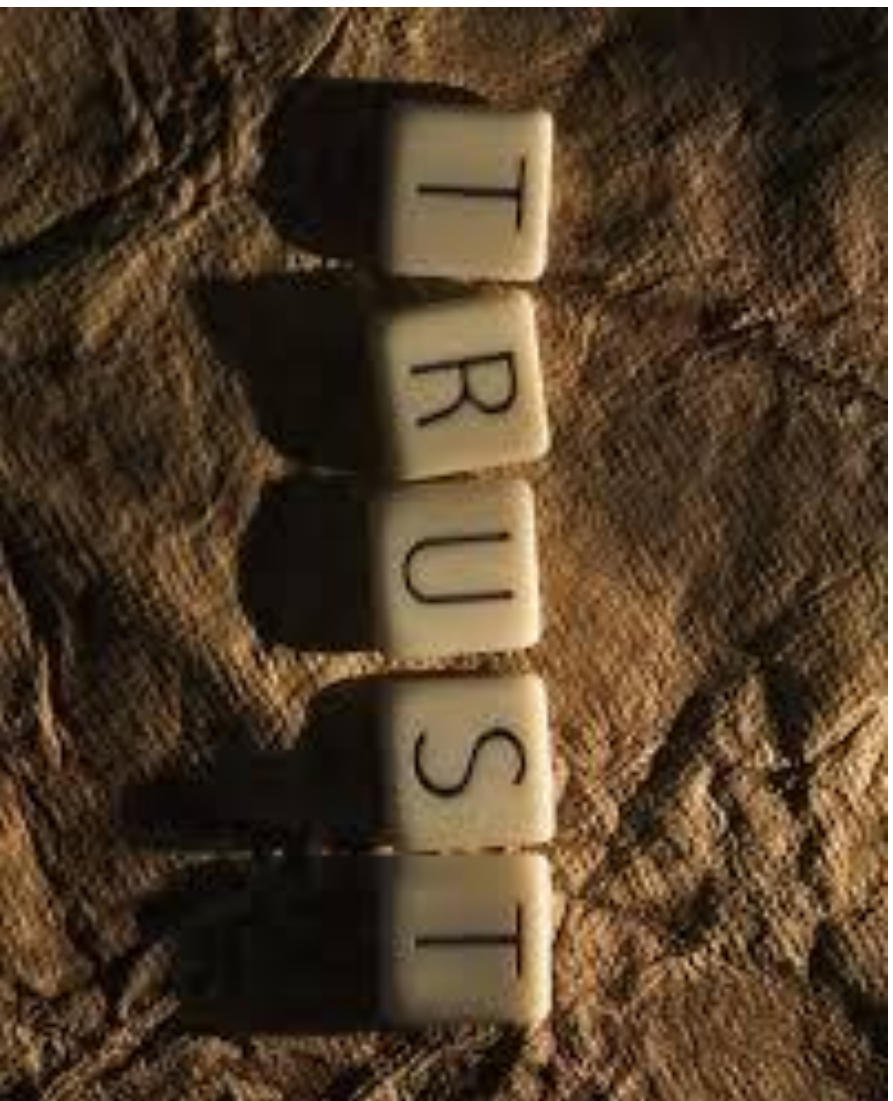
Workforce  
Certification



# The Maritime Academy of Toledo







**Takes Years to Build  
Seconds to Break  
Forever to Repair**





# BREAK



# Procrastinator Workshop

## Thursday, December 8, 2016

### Backflow Prevention Rules Update

#### OTCO-B12700-OM



*Curtis L. Truss Jr.*





# Contribution from previous presentations:

Jess Jones, OTCO

Dick Lykins, OTCO

Gary Espenschied, OTCO

Dr. Ashley Bird, OEPA



# Backflow Update

- Backflow Regulations were first instituted July 1, 1972.
- Can be a requirement for system upgrades



# Backflow Update

- ▶ 1969 - Ohio Approves the Reduced Pressure Assembly
- ▶ 1972 -Became Law & was Adopted by ODH to Regulate Backflow Prevention in Ohio
- ▶ 1972 - Personnel From ODH & ODNR Become Core of Ohio EPA (10/23/72)
  - Jim Haywood Heads the Backflow Prevention Program
  - Ohio EPA Adopts Legislation Which Later Becomes OAC 3745-95



# Backflow Update

- ◆ 1972 - Ohio EPA Requires the I-71 Corridor Cities to Implement a Backflow Prevention Program
  - Cincinnati - Columbus - Cleveland



# Backflow Update

- ▶ 1976 - Ohio EPA Creates “Manual of Backflow Prevention & Cross-Connection Control”
- ▶ 1979 - ODH Initiates the “Certified Backflow Tester” License Program
  - Must be a Plumber to Attend
  - Little Interest by Plumbing Trades
- ▶ 1982 - Chlorination of All Public Water Systems is Required by Ohio Law
- ▶ 1983 - Dr Ashley Bird is Given the Responsibility for the Ohio EPA Backflow Prevention Program



# Backflow Update

- ▶ 1994 - First Backflow Prevention Training Program was Created for Water Suppliers by OTCO at the Request of Dr Ashley Bird
  - Support & Input By the Following
    - Dr Ashley Bird Jess Jones
    - Richard Lykins John McCreight
    - Ralph Mohr Larry Short
    - Steve Skinner Curtis Truss
- ▶ 1995 - Over 150 Water Supply Employees Attended the Training That First Year & Resulted in Increased Backflow Prevention Programs





# Backflow Update

- ▶ 1996 - Plumbing Trades Are Now More Interested in Becoming Certified
- ▶ 1995 - ODH Backflow Prevention Section Moves to Ohio DOC
- ▶ 1998 - Ohio Adopts the International Plumbing Code
- ▶ 2000 - ODOC Requests OEPA & OTCO Participation on Their Ad Hoc Backflow Prevention Advisory Committee
  - Represents a Handshake Between ODOC, OEPA & OTCO
  - Cooperative Effort Initiated & Led by Ralph Reeb of Ohio DOC



# Backflow Update

- ▶ 2001 - Water Supply Employees Can Take the ODOC “Certified Backflow Tester” Examination After Attending the OTCO Training
- ▶ 2003 - ODOC Proposes New Legislation
  - Senate Bill 179
  - Would Restrict “Certified Backflow Tester” License to Plumbing Trades
  - Would Require All Backflow Preventers to be Tested by a “Licensed Person”
  - Would Eliminate Water Supplier Authority Over Containment Testing



# Backflow Update

- ▶ 2003 - OEPA, ORWA, OAWWA & OTCO Opposed the Proposal
- ▶ 2003 - United Effort on Water Supply Side
  - Dr Ashley Bird, OEPA
  - Kevin Strang, ORWA
  - Curtis Truss, OTCO & Vice President of AWWA
  - Jess Jones, OTCO



# Backflow Update

- ▶ 2003 - Multiple Meetings Held to Protect the Authority, Responsibility & Liability of the Water Supply Community
- ▶ 2003 - After Several Failed Attempts, a Mutually Acceptable Resolution is Reached
- ▶ 2004 - Legislation Expected to Become Law



# Backflow Update

- ▶ Water Supplier Retains Authority Over Containment
- ▶ ODOC Retains Authority Over Isolation
- ▶ ODOC Satisfies Their Need to Charge Fees for “Certified Backflow Tester” License
- ▶ Codifies What They Have Been Doing Without Legal Authority for 24 Years

- ▶ ~~Ad Hoc Advisory Committee Continues~~



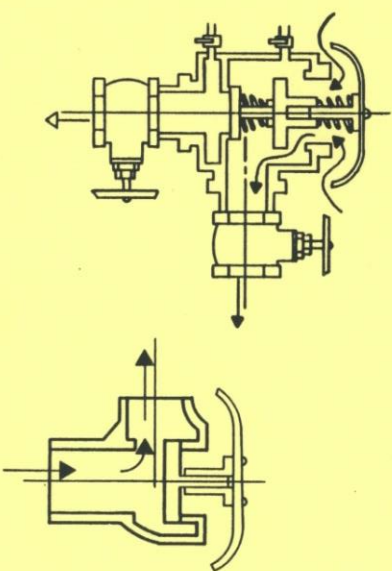
# OEPA's Backflow Manual Prior to October 25, 2015

**OhioEPA**

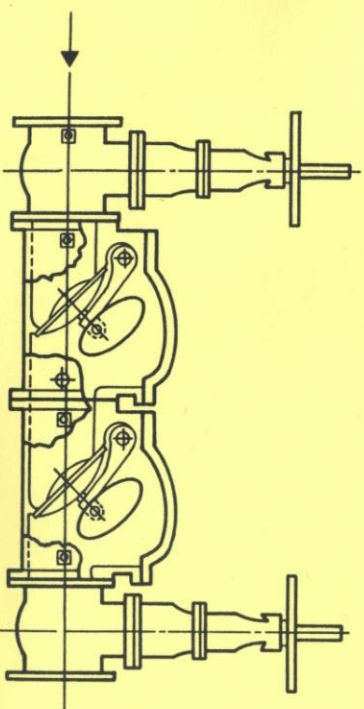
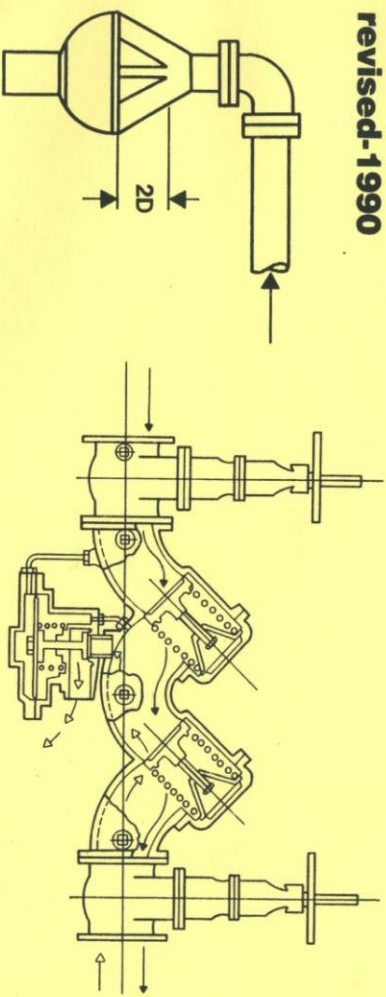
State of Ohio Environmental Protection Agency

division of  
public water supply

## backflow prevention and cross-connection control



third edition-1987  
revised-1990





Division of Drinking and Ground Waters

# Backflow Prevention and Cross-Connection Control

Fourth Edition – 2015



*This is a manual of good engineering practices for the protection of potable water systems from contamination by backflow. It is specifically written for use in Ohio, incorporating the laws and administrative rules of the State of Ohio. This manual is also intended for use as a self-training manual for water supply personnel and others involved in cross-connection control.*

*Although this manual discusses all aspects of backflow prevention and cross-connection control, its main emphasis is promoting Ohio EPA's mission and assisting public water systems in protecting public water supplies.*





*Material contained herein referencing protection of the consumer's water system plumbing, is for informational purposes only.*

*The reader, if performing under the purview of the Ohio Department of Commerce, should reference the Ohio Department of Commerce's, Division of Industrial Compliance, Construction Compliance manual, "Backflow Prevention and Cross-Connection Control Manual: For the Education of Ohio Certified Backflow Prevention Technicians" for guidance.*



*The supplier of water shall conduct or cause to be conducted an initial assessment and periodic surveys or investigations of water use practices within a consumer's premises to determine whether there are actual or potential cross-connections to the consumer's water system through which contaminants or pollutants could backflow into the public water system or determine where in the judgment of the supplier of water, a pollutional system, health or severe health hazard to the public water system exists.*



To meet this requirement, the supplier of water shall conduct or cause to be conducted an on-site investigation of all premises at least every five years to identify changes in water use practices at the consumer's property so that new or increased hazards to the water supply are identified and mitigated.

In lieu of conducting an on-site investigation of all premises every five years, the supplier of water can document, in writing, an alternate, on-going, methodology to identify changes in water use practices that may represent a new or increased hazard to the public water supply.



# CHECKLIST FOR A GOOD BACKFLOW PREVENTION PROGRAM

In order to ensure a public water system has and maintains an adequate backflow prevention program, the following components will be addressed during a system's sanitary survey by the field office staff of Ohio EPA. A public water system must have these components addressed and be ready to discuss them at the time of a survey:

1) ~~Does the water system have a cross-connection control ordinance or other legal~~



# CHECKLIST FOR A GOOD BACKFLOW PREVENTION PROGRAM

2. Does the cross–connection control program include the following:
  - a. Requires installation and operation of appropriate type of approved backflow preventer?
  - b. Provides right–of–entry for inspection?
  - c. Conducts inspections/tests for all installed backflow preventers every 12months?
  - d. Enforces discontinuance of service to any facility where suitable or operable backflow preventers have not been provided for a cross–connection?



# CHECKLIST FOR A GOOD BACKFLOW PREVENTION PROGRAM

2. Does the cross-connection control program include the following:
  - e. Require appropriate protection and inspection of all other booster pump installations?
  - f. Ensure that customers with auxiliary water systems (i.e. private wells) have the appropriate backflow protection and inspection?



# CHECKLIST FOR A GOOD BACKFLOW PREVENTION PROGRAM

- 3) Who does the water system accept to perform the every 12-month inspection on the backflow prevention assemblies?
  - a. Department of Commerce Certified Tester
  - b. OTCO Certified Tester
  - c. Licensed Plumber
  - d. PWS Personnel
  - e. Other



