

## High Hazard Cross Connections— Significant Deficiencies



In response to the federal Safe Drinking Water Act Ground Water Rule (GWR) and recent incidents in Minnesota, the Minnesota Department of Health (MDH) has adopted high-hazard cross connections that are not adequately protected as a Significant Deficiency (SD) for all Community Public Water Systems (CPWSs).

For the purposes of CPWS Unit program implementation, SDs will be defined as high-hazard cross connections that would require a Reduced Pressure Zone (RPZ) backflow preventer or air gap. However, CPWSs can adopt a more comprehensive approach, addressing all cross connections as part of a cross connection control program.

### July 1, 2011-December 31, 2012

MDH will notify CPWSs that suspect or known inadequately protected high-hazard cross connections will need to be identified in their next Sanitary Survey.

### Starting January 1, 2013

It is expected that CPWSs will be continuously building a documented inventory of high-hazard cross connections. While doing so, the most immediate priority should be given to identifying inadequately protected high-hazard cross connections in these locations:

- RPZ backflow preventer in inappropriate location or lacking testing;
- Waste and/or reclaimed water pipes and handling facilities, i.e. wastewater treatment plants;
- Chemical dispensers and/or feed lines, i.e. licensed food, beverage, and lodging establishments, and food processing facilities;
- Car wash pump feed lines;
- Health care facilities and providers and funeral parlors, i.e. air conditioning, fire protection, hazardous waste systems.

*CPWSs will be asked at each Sanitary Survey if they suspect or know of any inadequately protected high-hazard cross connections in their distribution system.*

If the answer is “Yes” and the CPWA has not taken action to address the cross-connection, the CPWS must identify the location(s) and submit a Corrective Action plan within 120 days to address the cross-connection(s).

**Learn more at the training session.**



# Cross Connection Control Training

Ensuring Safe Drinking Water



**INVITATION & REGISTRATION:**  
**Water Supply Professionals**  
*2 Locations to Choose From*

## About

### Overview: Cross Connections

This class is designed to educate Water Utility staff members involved with a Cross Connection Control (CCC) Program and inspections. 6 hour technical session includes detailed review of the basic components of a Comprehensive CCC Program and other local requirements for compliance.



Understanding the relevant rules and regulations which shape a Cross Connection Program is essential.

*\*\*For more info on what a Cross Connection is, visit:*

[www.hydrocorpinc.com/resources/faq](http://www.hydrocorpinc.com/resources/faq)

### Objective:

To provide the student with a better understanding of methods and resources available to enable a *Cost Effective* Cross Connection Control Program for small and large public water supply systems.

### Instructors:

Gary McLaren—CCC Surveyor / CCC Program Advisor -HydroCorp Inc;

Sponsored by MRWA Corporate Partners:

[www.mrwa.com/corporatepartners.html](http://www.mrwa.com/corporatepartners.html)

Safe Drinking Water is our Goal!

## INVITATION: Water Systems

## Agenda

### Complete Schedule: 8AM - 3PM



#### **A. Introduction to Backflow Prevention -**

Backflow/Cross Connections  
Backpressure/Back-siphonage  
Handout Review

#### **B. Fundamentals of Backflow -**

Type of Cross Connections  
--High & Low Hazard  
How/Why Cross Connections Happen  
Backflow Prevention & Handout Review

#### **C. Methods of Preventing Backflow -**

Devices & Approved Assemblies  
Testable Type vs. Non-Testable  
Correct Applications of  
Protection & Handout Review

### 12PM—Lunch Provided

#### **D. Regulations and Code Overview -**

Changes in State Plumbing Codes  
ASSE Standards  
Handout Review

#### **E. Surveying and Corrective Action -**

Identifying Cross Connections  
Documenting Inspections  
Who is Qualified to Conduct  
Inspections?  
Enforcing Corrective Action  
Hands-on Exercises

#### **F. Components of a Comprehensive Program**

Program Resources - Avoid  
Reinventing the Wheel  
Data Management & Recordkeeping  
Challenges from Water Customers

#### **G. MDH Requirements & Recommendations-**

Overview of Program Options  
Best Practices by Successful Programs

## Register

Please print or type—(Provide Name of Each Registrant)

Name \_\_\_\_\_

Title \_\_\_\_\_

Representing \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

### **2 Locations to Choose From**

**November 1, 2017**

**Glencoe City Center,  
1107 11<sup>th</sup> Street East,  
Glencoe, MN**

**November 2, 2017**

**Wyoming Community Room,  
26885 Forest Blvd., Wyoming, MN**

### **Check One:**

Member: \$125.00 \_\_\_\_\_

Non-Member: \$150.00 \_\_\_\_\_

### **Mail completed form by October 27, 2017**

Minnesota Rural Water Association

217 12th Avenue SE

Elbow Lake, MN 56531

800-367-6792 (PH)—218-685-5272 (FAX)

**PRE-REGISTRATION IS REQUIRED!**

Or Call MRWA -800-367-6792