

# Annual Cross Connection Control Report Exercise

Great Lakes Township - Water  
Department



# Summary of Work to EGLE

*R 325.11404 (4) A water supply shall report annually to the department on the status of the cross connection control program on a form provided by the department.*

- Test of Recordkeeping & Organization
- Used for Compliance Determination

# Step 1 – Select the proper form

- Go to [www.michigan.gov/drinkingwater/](http://www.michigan.gov/drinkingwater/)
  - In the top right click on: [Community Water Supply Home Page](#)
  - Then click on Reporting Forms

EGLE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

Search

EGLE / WATER / DRINKING WATER / COMMUNITY WATER SUPPLY

### Community Water Supply

The Community Water Supply Program oversees the primary EPA program that sets forth minimum standards for safe drinking water as well as administering the requirements of Michigan's Safe Drinking Water Act. The program's primary function is regulatory oversight of approximately 1,400 community public water supplies in Michigan.

**COVID-19: Information for Water Operators**

#### Information

- Reconnecting Water Services
- Michigan.gov/MLLeadSafe: information on lead exposure and testing results
- Lead and Copper in Drinking Water
- Lead Public Advisory
- Community Water Supply District Offices Map and Contact Information
- What is a Community Public Water Supply?
- Community Water Supply Listings
- Public Notice for Emergencies
- EGLE Water Sampling 101 - Thermal Preservation
- Harmful Algal Blooms and Drinking Water
- Related Programs & Web Sites
- School Drinking Water Program
- Backflow Prevention Assembly Testing Certification
- Edward Dunbar Rich Service Awards

#### Programs and Activities

- Capacity Development
- Area Wide Optimization Program (AWOP)
- Asset Management
- Operator Training and Certifications
- Certified Laboratories
- CWS Annual Fees
- EGLE Training & Workshops

#### Laws and Rules

- Safe Drinking Water Act 399
- Safe Drinking Water Rules - Supplying Water to the Public
- Current Drinking Water Standards
- Public Notification Rule
- Consumer Confidence Report Rule
- Revised Total Coliform Rule
- Drinking Water Rule Promulgation
- PFAS Drinking Water Rules
- Lead and Copper Rule

#### Manuals, Forms and Brochures

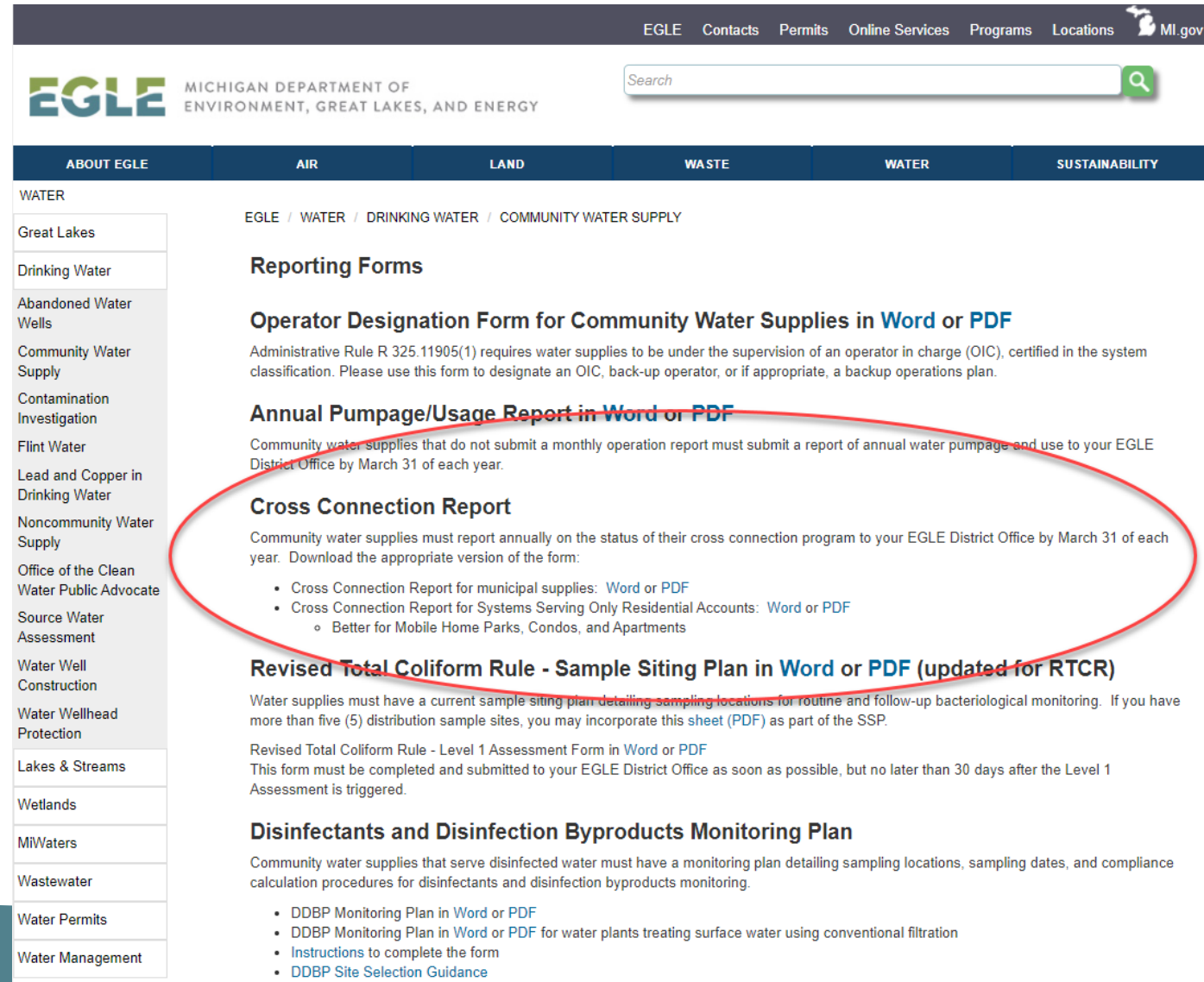
- Water Supply Permit Application & Streamlined Checklist
- 10 States Standards
- Suggested Practices for Water Works
- Cross Connection Brochure
- Fluoridation Information
- Water Well Disinfection Manual
- Cross Connection Rules Manual - Fourth Edition
- Reporting Forms
- Drinking Water Laboratory

#### Reports

- Annual Reports on Public Water System Violations
- Capacity Development Reports

# Step 1 – Select the Proper Form

- Select either the standard form or the residential-only form
- Word or PDF



EGLE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

EGLE / WATER / DRINKING WATER / COMMUNITY WATER SUPPLY

## Reporting Forms

### Operator Designation Form for Community Water Supplies in [Word](#) or [PDF](#)

Administrative Rule R 325.11905(1) requires water supplies to be under the supervision of an operator in charge (OIC), certified in the system classification. Please use this form to designate an OIC, back-up operator, or if appropriate, a backup operations plan.

### Annual Pumpage/Usage Report in [Word](#) or [PDF](#)

Community water supplies that do not submit a monthly operation report must submit a report of annual water pumpage and use to your EGLE District Office by March 31 of each year.

### Cross Connection Report

Community water supplies must report annually on the status of their cross connection program to your EGLE District Office by March 31 of each year. Download the appropriate version of the form:

- Cross Connection Report for municipal supplies: [Word](#) or [PDF](#)
- Cross Connection Report for Systems Serving Only Residential Accounts: [Word](#) or [PDF](#)
  - Better for Mobile Home Parks, Condos, and Apartments

### Revised Total Coliform Rule - Sample Siting Plan in [Word](#) or [PDF](#) (updated for RTCR)

Water supplies must have a current sample siting plan detailing sampling locations for routine and follow-up bacteriological monitoring. If you have more than five (5) distribution sample sites, you may incorporate this [sheet](#) (PDF) as part of the SSP.

Revised Total Coliform Rule - Level 1 Assessment Form in [Word](#) or [PDF](#)

This form must be completed and submitted to your EGLE District Office as soon as possible, but no later than 30 days after the Level 1 Assessment is triggered.

### Disinfectants and Disinfection Byproducts Monitoring Plan

Community water supplies that serve disinfected water must have a monitoring plan detailing sampling locations, sampling dates, and compliance calculation procedures for disinfectants and disinfection byproducts monitoring.

- DDBP Monitoring Plan in [Word](#) or [PDF](#)
- DDBP Monitoring Plan in [Word](#) or [PDF](#) for water plants treating surface water using conventional filtration
- [Instructions](#) to complete the form
- [DDBP Site Selection Guidance](#)

WATER

- Great Lakes
- Drinking Water
- Abandoned Water Wells
- Community Water Supply
- Contamination Investigation
- Flint Water
- Lead and Copper in Drinking Water
- Noncommunity Water Supply
- Office of the Clean Water Public Advocate
- Source Water Assessment
- Water Well Construction
- Water Wellhead Protection
- Lakes & Streams
- Wetlands
- MiWaters
- Wastewater
- Water Permits
- Water Management

# Select the Proper Reporting Form

## 1. Standard Form

- All Municipal Water Systems
- Private Systems with Commercial/Industrial...

## 2. Residential Water Systems Form

- Apartment Complexes
- Manufactured Home Communities
- Homeowner Associations
- Adult Care Facilities





# Standard Form



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

## 2020 WATER SUPPLY CROSS CONNECTION REPORT

Issued under authority of 1976 PA 399, as amended, MCL 325.1001 et seq., and its administrative rules.  
Failure to submit this form is a violation of the Act and may subject the water supply to enforcement actions.

Return the completed form by March 31, 2021, to the appropriate Department of Environment, Great Lakes, and Energy (EGLE) district office to comply with administrative Rule R 325.11404 that states "a water utility shall report annually to the department on the status of the cross connection control program on a form provided by the department." For district office addresses, visit [Michigan.gov/CommunityWater](http://Michigan.gov/CommunityWater) and then click on *District Offices Map and Contact Information*.

WSSN: \_\_\_\_\_

A. Name of water system: \_\_\_\_\_ County: \_\_\_\_\_

B. Year that the current written cross connection control program was approved by EGLE: \_\_\_\_\_

C. Total number of industrial, commercial, institutional, residential, and governmental accounts that must be routinely reinspected for cross connections: \_\_\_\_\_

Of this number,

- How many are High Hazard accounts: \_\_\_\_\_ Frequency of Reinspection: Once per: \_\_\_\_\_

- How many are Low Hazard accounts: \_\_\_\_\_ Frequency of Reinspection: Once per: \_\_\_\_\_

D. Number of accounts from line "C" that received an initial inspection in 2020: \_\_\_\_\_

E. Total number of reinspections required and completed in 2020 based on degree of hazard:

- High hazard reinspections required: \_\_\_\_\_ High hazard reinspections completed: \_\_\_\_\_

- Low hazard reinspections required: \_\_\_\_\_ Low hazard reinspections completed: \_\_\_\_\_

F. Number of accounts where a cross connection(s) was found to exist during inspections or reinspections in 2020: \_\_\_\_\_

G. Number of accounts from line "F" where corrective actions have been completed: \_\_\_\_\_

H. Total number of accounts from line "C" which are now in compliance with the local cross connection control program;  $H = C - (F - G)$ : \_\_\_\_\_

I. Total number of backflow prevention devices in system requiring testing: \_\_\_\_\_

J. Number of backflow prevention devices tested in 2020: \_\_\_\_\_

Outline briefly any changes or significant findings since last reporting. Use additional sheets if necessary.

Narrative Description of Program:

Name: \_\_\_\_\_

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



2020 WATER SUPPLY CROSS CONNECTION REPORT  
EQP2016

## Instructions for completing the Water Supply Cross Connection Report

### Definitions:

**Inspection:** The initial visit to an account to determine whether the potential for a cross connection exists.

**Reinspection:** Any of the following activities:

1. A periodic, scheduled return visit to ensure that air gaps and protective devices are in place and operating properly. The frequency of this type of reinspection is determined after the initial inspection and is based on the degree of hazard. An example of this type of reinspection is a yearly visit to a facility with a chemically treated boiler with an RPZ device installed.
2. A visit made at the request of a customer due to flow, water quality, or other problems, during which the water utility checks for cross connections. An example of this type of reinspection is a visit to investigate a taste and odor complaint that includes examining several vacuum breaker installations.
3. A follow-up visit to confirm that a customer has eliminated a discovered cross connection or installed an appropriate protective device. An example of this type of reinspection is a return visit 30 days after a cross connection is discovered to confirm that a suitable air gap has been installed at a mixing tank as required by the water utility.

A, B. This is basic information to be provided by the water system.

C. This is the total number of accounts requiring routine reinspections. Some water accounts, due to a very low degree of cross connection hazard, are not routinely reinspected and should not be included on this line. Because high-hazard and low-hazard accounts may have different reinspection frequencies, they should be listed separately.

D. This is the number of accounts that were new to your program during the year and have received their initial inspection.

E. This is the number of inspections that should have been completed during the year based on the information provided in C, compared to the number actually completed. As an example calculation, a water system with 20 high-hazard accounts (requiring annual reinspections) and 50 low-hazard accounts (requiring inspections every 2 years) would have a total of 45 inspections due for the year (all 20 of the high-hazard accounts, plus one-half of the low-hazard accounts).

F. Any cross connections discovered during the year that required corrective action should be included on this line. Corrective actions include creation of an air gap, installation of a backflow prevention device, repair of a defective device, elimination of improper bypasses around devices, etc.

G. Accounts where a reinspection has been completed to confirm that the discovered cross connection was eliminated, or an appropriate protective device was installed, should be included on this line.

H. The value from line G should first be subtracted from line F, and the result should be subtracted from line C to obtain the value for this line.

I, J. The device testing frequency is set by the water utility based on the degree of hazard. The number listed in J may be less than the number listed in I, because some devices may require less than annual testing.

Narrative Description of Program: Any pertinent information, such as system-wide public education activities, loss of accounts due to facility closure or change of owner/tenant, significant enforcement, etc. should be included in this section.

# Residential ONLY Form



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION  
**2020 WATER SUPPLY CROSS CONNECTION REPORT  
FOR SYSTEMS SERVING ONLY RESIDENTIAL ACCOUNTS**

Issued under authority of 1976 PA 399, as amended, MCL 325.1001 et seq., and its administrative rules.  
Failure to submit this form is a violation of the Act and may subject the water supply to enforcement actions.

Return the completed form by March 31, 2021, to the appropriate Department of Environment, Great Lakes, and Energy (EGLE) district office to comply with administrative Rule R 325.11404 that states "a water utility shall report annually to the department on the status of the cross connection control program on a form provided by the department." For district office addresses, visit [Michigan.gov/CommunityWater](http://Michigan.gov/CommunityWater) and then click on *District Offices Map and Contact Information*.

WSSN: \_\_\_\_\_

- A. Name of water system: \_\_\_\_\_ County: \_\_\_\_\_
- B. Year that the current written cross connection control program was approved by EGLE: \_\_\_\_\_
- C. Number of living units connected to the water system: \_\_\_\_\_
- D. Number of other types of units connected to the water system: \_\_\_\_\_
- E. Number of units in lines C and D that were inspected for cross connections in 2020: \_\_\_\_\_
- F. Number of units in line E where a cross connection(s) was found to exist in 2020: \_\_\_\_\_
- G. Number of units from line F where corrective actions have been completed: \_\_\_\_\_
- H. Answer the following questions:

Are any of the following connected to the system?	Yes	No	If yes, how is each protected? (AG, AVB, DCVA, HBVB, NP, PVB, RPZ, SC, VDCV) List all that apply.
Lawn irrigation/sprinkler systems	<input type="checkbox"/>	<input type="checkbox"/>	
Fire suppression/sprinkler systems	<input type="checkbox"/>	<input type="checkbox"/>	
Swimming pools or hot tubs	<input type="checkbox"/>	<input type="checkbox"/>	
Private wells or other sources of water	<input type="checkbox"/>	<input type="checkbox"/>	
Boiler (make-up) water connections	<input type="checkbox"/>	<input type="checkbox"/>	
Water to air conditioners or heat pumps	<input type="checkbox"/>	<input type="checkbox"/>	
Water assisted sump pumps	<input type="checkbox"/>	<input type="checkbox"/>	
Water softeners or other water treatment	<input type="checkbox"/>	<input type="checkbox"/>	
Outside hose spigots	<input type="checkbox"/>	<input type="checkbox"/>	
Fire hydrants or flushing standpipes	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

- I. Total number of testable backflow preventers in system: \_\_\_\_\_
- J. Number of backflow preventers tested in 2020: \_\_\_\_\_

Narrative Description of Program: Outline briefly any changes or significant findings since last reporting. Use additional sheets if necessary.

Name: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_



2020 WATER SUPPLY CROSS CONNECTION REPORT  
FOR SYSTEMS SERVING ONLY RESIDENTIAL ACCOUNTS  
EQ5969

Instructions for completing the Water Supply Cross Connection  
Report for Systems Serving Only Residential Accounts

**Definitions:**

**Inspection:** A visual inspection of a living unit, room, building, or any area where plumbing is present to determine whether the potential for a cross connection exists.

**Backflow preventer testing:** Certain types of backflow preventers must be tested periodically to ensure that they are in good working order. The test consists of a certified or approved tester connecting the backflow preventer to a test kit, and through a known testing process determines whether the assembly is functioning properly (pass) or is in need of repair (fail).

AG = Air Gap, AVB = Atmospheric Vacuum Breaker, DCVA = Double Check Valve Assembly, HBVB = Hose Bib Vacuum Breaker, NP = No Protection, PVB = Pressure Vacuum Breaker, RPZ = Reduced Pressure Principle Backflow Preventer, SC = Single Check, VDCV = Vented Dual Check Valve

- A. This is basic information about the water system.
- B. State the year the formal cross connection control program was approved by EGLE.
- C. This is the number of living units, such as apartments, homes, condominiums, or manufactured houses that are connected to the public water system.
- D. This is the number of other types of units, rooms, or areas on the premises that are connected to the public water system that are not counted in C above. Examples are storage units, laundry facilities, heating/AC rooms, water treatment facility areas, etc.
- E. This is the total number of units, rooms and areas in C and D that were visually inspected for cross connections during the year.
- F. This is the number of units in E where cross connections were found during the inspection process.
- G. This is the number of cross connections found in F that have been eliminated or a backflow preventer has been properly installed.
- H. Answer yes or no to each question. If yes, state how the items are protected from backflow. For acceptable corrective items, see the 4<sup>th</sup> Edition of EGLE's *Cross Connection Rules Manual*.
- I. This is the total number of testable backflow preventers installed on the premises. This includes RPZ assemblies, DCVA, and PRV.
- J. Testable assemblies need to be tested upon installation, after a repair or relocation, or at the frequency specified in the approved program. Only certified or approved persons can test the assemblies.

Narrative Description of Program: Any pertinent information, such as systemwide public education activities, loss of accounts due to facility closure or change of owner/tenant, significant enforcement, etc., should be included in this section.

# Step 2 – Compile Annual Data

Review these:

- Software auto reports
- Database queries
- Spreadsheets
- File cabinets

To compile these:

- Assembly testing records
- Inspection records
- Cross connection violations notices

iWorQ

utilitycloud

TOKAY



[www.usabluebook.com](http://www.usabluebook.com)





# Step 3 – Fill out Form



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE  
**2013 WATER SUPPLY CROSS CONNECTION REPORT**  
**FOR SYSTEMS SERVING ONLY RESIDENTIAL ACCOUNTS**  
Issued under authority of 1976 PA 399, as amended, and the administrative rules. Failure to submit this form is a violation of the Act and may subject the water supply to enforcement penalties.

Administrative Rule R 325.11405 states in part that "a water utility shall report annually to the department on the status of the cross connection control program on a form provided by the department." Return the completed form by March 31, 2014 to the appropriate Department of Environmental Quality (DEQ) district office. For district office addresses, visit [www.michigan.gov/deq](http://www.michigan.gov/deq) and click on Locations.

- A. Name of water system: \_\_\_\_\_ WSSN: \_\_\_\_\_ County: \_\_\_\_\_
- B. Year that the current written cross connection control program was approved by DEQ: \_\_\_\_\_
- C. Number of living units connected to the water system: \_\_\_\_\_
- D. Number of other types of units connected to the water system: \_\_\_\_\_
- E. Number of units in C and D that were inspected for cross connections in 2013: \_\_\_\_\_
- F. Number of units in E where a cross connection(s) was found to exist in 2013: \_\_\_\_\_
- G. Number of units from F where corrective actions have been completed: \_\_\_\_\_
- H. Answer the following questions:

Are any of the following connected to the system?	Yes/No		If yes, how is each protected? (AG, AVB, DCVA, HBVB, NP, PVB, RPZ, SC, VDCV) List all that apply.
Lawn irrigation/sprinkler systems	<input type="checkbox"/>	<input type="checkbox"/>	
Fire suppression/sprinkler systems	<input type="checkbox"/>	<input type="checkbox"/>	
Swimming pools or hot tubs	<input type="checkbox"/>	<input type="checkbox"/>	
Private wells or other sources of water	<input type="checkbox"/>	<input type="checkbox"/>	
Boiler (make-up) water connections	<input type="checkbox"/>	<input type="checkbox"/>	
Water to air conditioners or heat pumps	<input type="checkbox"/>	<input type="checkbox"/>	
Water assisted sump pumps	<input type="checkbox"/>	<input type="checkbox"/>	
Water softeners or other water treatment	<input type="checkbox"/>	<input type="checkbox"/>	
Outside hose spigots	<input type="checkbox"/>	<input type="checkbox"/>	
Fire hydrants or flushing standpipes	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

- I. Total number of testable backflow preventers in system: \_\_\_\_\_
- J. Number of backflow preventers tested in 2013: \_\_\_\_\_

Program Narrative (Outline briefly any changes or significant findings this year; use additional sheets if necessary.)

Name: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

## Instructions for completing the Water Supply Cross Connection Report For Systems Serving Only Residential Accounts

### Definitions:

**Inspection:** A visual inspection of a living unit, room, building, or any area where plumbing is present to determine whether the potential for a cross connection exists.

**Backflow preventer testing:** Certain types of backflow preventers must be tested periodically to ensure that they are in good working order. The test consists of a certified or approved tester connecting the backflow preventer to a test kit, and through a known testing process determines whether the assembly is functioning properly (pass) or is in need of repair (fail).

**AG = Air Gap, AVB = Atmospheric Vacuum Breaker, DCVA = Double Check Valve Assembly, HBVB = Hose Bib Vacuum Breaker, NP = No Protection, PVB = Pressure Vacuum Breaker, RPZ = Reduced Pressure Principle Backflow Preventer, SC = Single Check, VDCV = Vented Dual Check Valve**

- A. This is basic information about the water system.
- B. State the year the formal cross connection control program was approved by the DEQ.
- C. This is the number of living units, such as apartments, homes, condominiums, or manufactured houses that are connected to the public water system.
- D. This is the number of other types of units, rooms, or areas on the premises that are connected to the public water system that are not counted in C above. Examples are storage units, laundry facilities, heating/AC rooms, water treatment facility areas, etc.
- E. This is the total number of units, rooms and areas in C and D that were visually inspected for cross connections during the year.
- F. This is the number of units in E where cross connections were found during the inspection process.
- G. This is the number of cross connections found in F that have been eliminated or a backflow preventer has been properly installed.
- H. Answer yes or no to each question. If yes, state how the items are protected from backflow. For acceptable corrective items, see the 4<sup>th</sup> Edition of the DEQ's *Cross Connection Rules Manual*.
- I. This is the total number of testable backflow preventers installed on the premises. This includes reduced pressure principle backflow preventer assemblies (RPZ), double check valve assemblies (DCVA), and pressure vacuum breakers (PRV).
- J. Testable assemblies need to be tested upon installation, after a repair or relocation, or at the frequency specified in the approved program. Only certified or approved persons can test the assemblies.

**Narrative Description of Program:** Any pertinent information, such as systemwide public education activities, loss of accounts due to facility closure or change of owner/tenant, significant enforcement, etc., should be included in this section.



Administrative Rule R 325.11405 states in part that "a water utility shall report annually to the department on the status of the cross connection control program on a form provided by the department." Return the completed form by March 31, 2014 to the appropriate Department of Environmental Quality (DEQ) district office. For district office addresses, visit [www.michigan.gov/deq](http://www.michigan.gov/deq) and click on Locations.

WSSN: 7734

A. Name of water utility: Great Lakes Township County: Lakeshore

B. Year that the current written cross connection control program was approved by DEQ: 2011

C. Total number of industrial, commercial, institutional, residential, and governmental accounts that must be routinely reinspected for cross connections: \_\_\_\_\_  
 Of this number,  
 - How many are High Hazard accounts: \_\_\_\_\_ Frequency of Reinspection: Once per \_\_\_\_\_  
 - How many are Low Hazard accounts: \_\_\_\_\_ Frequency of Reinspection: Once per: \_\_\_\_\_

D. Number of accounts from "C" above that received their initial inspection in 2013: \_\_\_\_\_

E. Total number of reinspections required and completed in 2013 based on degree of hazard:  
 - High hazard reinspections required: \_\_\_\_\_ High hazard reinspections completed: \_\_\_\_\_  
 - Low hazard reinspections required: \_\_\_\_\_ Low hazard reinspections completed: \_\_\_\_\_

F. Number of accounts where a cross connection(s) was found to exist during inspections or reinspections in 2013: \_\_\_\_\_

G. Number of accounts from "F" above where corrective actions have been completed: \_\_\_\_\_

H. Total number of accounts from "C" above which are now in compliance with the local cross connection control program;  $H = C - (F - G)$ : \_\_\_\_\_

I. Total number of backflow prevention devices in system requiring testing: \_\_\_\_\_

J. Number of backflow prevention devices tested in 2013: \_\_\_\_\_

Narrative Description of Program  
 (Outline briefly any changes or significant findings since last reporting; use additional sheets if necessary.)

# Step 3 – Fill Out Form

Start with basic information

Note – The Township updated their CCCP in 2011.





MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
 OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE  
**2013 WATER SUPPLY CROSS CONNECTION REPORT**

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WSSN: 7734

A. Name of water utility: Great Lakes Township County: Lakeshore

B. Year that the current written cross connection control program was approved by DEQ: 2011

C. Total number of industrial, commercial, institutional, residential, and governmental accounts that must be routinely reinspected for cross connections: 300  
 Of this number,  
 - How many are High Hazard accounts: \_\_\_\_\_ Frequency of Reinspection: Once per \_\_\_\_\_  
 - How many are Low Hazard accounts: \_\_\_\_\_ Frequency of Reinspection: Once per \_\_\_\_\_

D. Number of accounts from "C" above that received their initial inspection in 2013: \_\_\_\_\_

E. Total number of reinspections required and completed in 2013 based on degree of hazard:  
 - High hazard reinspections required: \_\_\_\_\_ High hazard reinspections completed: \_\_\_\_\_  
 - Low hazard reinspections required: \_\_\_\_\_ Low hazard reinspections completed: \_\_\_\_\_

F. Number of accounts where a cross connection(s) was found to exist during inspections or reinspections in 2013: \_\_\_\_\_

G. Number of accounts from "F" above where corrective actions have been completed: \_\_\_\_\_

H. Total number of accounts from "C" above which are now in compliance with the local cross connection control program;  $H = C - (F - G)$ : \_\_\_\_\_

I. Total number of backflow prevention devices in system requiring testing: \_\_\_\_\_

J. Number of backflow prevention devices tested in 2013: \_\_\_\_\_

Narrative Description of Program

(Outline briefly any changes or significant findings since last reporting; use additional sheets if necessary.)

### Item C: Total Number of Accounts

- Total Number of Accounts To Date: **300**
- High Hazard Accounts: **50**
- Low Hazard Accounts: **250**

#### Note:

This item refers to the total amount of accounts in the system requiring inspection, not just the accounts requiring inspection in a particular year.

**Unless the utility has justification that inspections are not required, this number should be close to the total number of water customers.**





MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
 OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE  
**2013 WATER SUPPLY CROSS CONNECTION REPORT**

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WSSN: 7734

A. Name of water utility: Great Lakes Township County: Lakeshore

B. Year that the current written cross connection control program was approved by DEQ: 2011

C. Total number of industrial, commercial, institutional, residential, and governmental accounts that must be routinely reinspected for cross connections: 300

Of this number,

- How many are High Hazard accounts: 50 Frequency of Reinspection: Once per 12 months

- How many are Low Hazard accounts: 250 Frequency of Reinspection: Once per 24 months

D. Number of accounts from "C" above that received their initial inspection in 2013: \_\_\_\_\_

E. Total number of reinspections required and completed in 2013 based on degree of hazard:

- High hazard reinspections required: \_\_\_\_\_ High hazard reinspections completed: \_\_\_\_\_

- Low hazard reinspections required: \_\_\_\_\_ Low hazard reinspections completed: \_\_\_\_\_

F. Number of accounts where a cross connection(s) was found to exist during inspections or reinspections in 2013: \_\_\_\_\_

G. Number of accounts from "F" above where corrective actions have been completed: \_\_\_\_\_

H. Total number of accounts from "C" above which are now in compliance with the local cross connection control program;  $H = C - (F - G)$ : \_\_\_\_\_

I. Total number of backflow prevention devices in system requiring testing: \_\_\_\_\_

J. Number of backflow prevention devices tested in 2013: \_\_\_\_\_

Narrative Description of Program

(Outline briefly any changes or significant findings since last reporting; use additional sheets if necessary.)

## Item C: Number of Re-inspections Required Each Year Based on an Approved Frequency

- Total High Hazard Accounts: 50
- Total Low Hazard Accounts: 250

### Re-inspection Frequency:

- High Hazard Accounts: Annually
- Low Hazard Accounts: Every other year.

So 50 Inspections should be performed on the High Hazard accounts and 125 inspections should be performed on the Low Hazard accounts.



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
 OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE  
**2013 WATER SUPPLY CROSS CONNECTION REPORT**

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 Of this number,  
 - How many are High Hazard accounts: 50 Frequency of Reinspection: Once per 12 months  
 - How many are Low Hazard accounts: 250 Frequency of Reinspection: Once per 24 months

D. Number of accounts from "C" above that received their initial inspection in 2013: 17

E. Total number of reinspections required and completed in 2013 based on degree of hazard:  
 - High hazard reinspections required: 50 High hazard reinspections completed: 47  
 - Low hazard reinspections required: 125 Low hazard reinspections completed: 100

F. Number of accounts where a cross connection(s) was found to exist during inspections or reinspections in 2013: \_\_\_\_\_

G. Number of accounts from "F" above where corrective actions have been completed: \_\_\_\_\_

H. Total number of accounts from "C" above which are now in compliance with the local cross connection control program;  $H = C - (F - G)$ : \_\_\_\_\_

I. Total number of backflow prevention devices in system requiring testing: \_\_\_\_\_

J. Number of backflow prevention devices tested in 2013: \_\_\_\_\_

Narrative Description of Program

(Outline briefly any changes or significant findings since last reporting; use additional sheets if necessary.)

## Items D & E: Inspections Completed

- *Initial Inspection: The initial visit to an account to determine whether the potential for a cross connection exists.*
- 125 + 50 = 175. So, a total of 175 accounts should be inspected annually according to the approved program.
- The water department was only able to inspect 147 (47 High & 100 Low) of 175 accounts.

# Item D: Examples of Initial Inspections

- New Water Customers
- Existing Customers that has Changed Water Use and/or Piping
- Existing Customers that had not Previously been Inspected **(Residential!!)**







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G. Number of accounts from "F" above where corrective actions have been completed: 20

H. Total number of accounts from "C" above which are now in compliance with the local cross connection control program;  $H = C - (F - G)$ : 297

I. Total number of backflow prevention devices in system requiring testing: \_\_\_\_\_

J. Number of backflow prevention devices tested in 2013: \_\_\_\_\_

Narrative Description of Program

(Outline briefly any changes or significant findings since last reporting; use additional sheets if necessary.)

## Items F,G,&H: Great Lakes Township 2013 Inspection Records

- A cross connection was found at 23 of the 164 accounts inspected.
- Corrective actions have been confirmed at 20 of the 23 accounts where a cross connection was discovered.
- So,  $23 - 20 = 3$ . So, 3 accounts are out of compliance with the program and 297 accounts are in compliance.
- If there is noncompliance from the previous year, please note in remarks section.



# Item F – Examples of Cross Connections Found to Exist

- Hose discovered in slop sink w/o AVB
- No AVB on hose bib
- Bypass around backflow preventer
- No air gap between softener discharge and floor drain
- Unapproved assembly or device
- Improper backflow preventer for application (Low hazard device on high hazard account)
- No test report submitted according to testing frequency

# Special Note on Item F:

- Reports indicating that **zero** cross connections were found year after year are suspect!
- Anything that requires a corrective action should be included in Item F.
- This tells EGLE that the inspector is knowledgeable, and the program is effective.



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Narrative Description of Program

(Outline briefly any changes or significant findings since last reporting; use additional sheets if necessary.)

## Item I: Number of Cross Connection Control Assemblies

- High Hazard Assemblies: 40
- Low Hazard Assemblies: 60

A total of 100 Assemblies.

### Note:

This item refers to the total number of assemblies in the system requiring testing, not just the number that require testing in a particular year.



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I. Total number of backflow prevention devices in system requiring testing: 100

J. Number of backflow prevention devices tested in 2013: 62

Narrative Description of Program

(Outline briefly any changes or significant findings since last reporting; use additional sheets if necessary.)

## Item J: Assembly Testing Records

- The approved program states that each high hazard account must be tested annually and each low hazard account must be tested every other year.
- So each year 40 high hazard assemblies and 30 low hazard assemblies must be tested.
- The water department received 62 satisfactory test report forms.

**\*Note: Item C and Item I are different!**





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**Narrative Description of Program**

(Outline briefly any changes or significant findings since last reporting; use additional sheets if necessary.)

# Step 4 - Provide Report Narrative

- Significant changes in numbers from previous years
- Numerous accounts that are not in compliance
- Numbers that are well short of program goals
- Public education efforts
- **New Residential efforts**
- Other significant program changes
  - New inspection staff
  - New software program
  - New staff training or certifications

# Annual Cross Connection Report

- The EGLE Report is on our website (Google: *“Michigan annual cross connection report”*)
- The report forms include instructions.
- Care should be taken to complete the forms accurately and honestly.
- Don't forget to sign and date the forms.
- You are encouraged to include comments or a narrative of cross connection activities.
- **Don't sell yourself short!**

# Annual Cross Connection Control Report Exercise

Questions?

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[EGLE - Community Water Supply \(michigan.gov\)](http://michigan.gov/egle)

Scott Schmidt- EGLE OTCU Senior Environmental Quality Analyst  
Bob Weir, E.I.T. - EGLE District 72 Engineer