



Village of Lake Orion





Agenda

- Recap/Critical Issues for Lake Orion
- HydroCorp Overview
- Project Plan
- Q&A - Confirm next steps



Critical Issues for Lake Orion

Current State/Challenges

- Compliance
 - EGLE has recently mandated that Lake Orion implement a residential CCC program adding to the existing commercial existing program.
- Labor/Administrative Burden
 - Wesley manages a team of 5 men to take care of the entire village's public works duties. Adding a residential ccc program would cause a significant labor burden.
 - The current process of entering test/inspection results manually into Silver Smith GIS system is already a tall task for the admin team, adding the residential CCC program would create an administrative nightmare.
 - Wesley wants to offload the entire program to a third party to ensure compliance with EGLE while alleviating himself and his team to focus on other priority tasks within the village.
- Accurate Records
 - Without inspections of current facilities there is a likely chance of unknown backflow prevention assemblies/ devices or potential cross connections.
- Backflow Risks
 - Unknown cross-connections

How We Address

- Initial on-site visual surveys
- Test tracking management
 - HydroCorp generates test notices (on city's official letterhead)
 - HydroCorp fields questions from customers with 1-800# on notice
- Non-compliance follow up
- Customized reporting for EGLE

Experience on Your Side

1983

Serving public works departments for more than 40 years

575

Trusted by public water systems nationwide

150

Backed by experienced team including nationally certified inspectors & surveyors

100,000+

Cross-connection surveys conducted annually

100%

Customers surveyed felt their system was safer

Project Plan



HydroCorp Turn-Key Program



Existing Plan Assessment

- Plan Review
- Ordinance Review



Public Awareness

- Program Announcement
- Establish wording and timing
- Social Media Content/Technical Images
- FAQ Webpage



On-site Inspections

- Prioritize
- Schedule
- Visual Review
- Documentation
- Corrective Action



Enforcement

- Violation Reports
- Compliance Re-inspections



Program Management

- Dedicated Support Team
- Maintains Program Data
- Test tracking
- Annual/as needed reviews



Public Awareness Toolkit includes:

1. Common Definitions and Code references
2. Sample Cross-Connection Control Program Announcement Letter
3. Digital Tri-Fold Educational Brochure - Printed versions available for fee
4. Pre-written Social Media posts/links
5. Technical images for use on Utility/City website and Social Media posts
6. Link to online video explaining the Cross-Connection Control Program
7. Public Awareness/FAQ Web Page hosted by HydroCorp ([client example](#))



**HydroCorp extends limited permission use of these digital and intellectual resources to HydroCorp clients for the duration of a Cross-Connection Control Program Service Contract.*

Inspection Notice Example



Cross Connection Control Program Inspection Notice

Sample Person
12345 Somewhere
Perfectville, FL 48888

Print Date: 11/06/2024

RE: Facility For Sample Notice at 12345 Somewhere

Reference #: **4C5-DA5-A9E**

Dear Water Customer,

The purpose of the [REDACTED] Cross Connection Control Program, as defined in local Ordinance Part II, Sec 48-70 thru 48-82, is to help eliminate possible contamination of the public water distribution system. There are two required components of the program; 1) site inspection and 2) testing of backflow prevention assemblies.

The [REDACTED] will be working jointly with inspectors from HydroCorp to conduct these inspections. Thank you in advance for your cooperation in this matter.

As part of this program, an inspection of your facility's internal water system is to be completed. Inspectors will be reviewing your water system for connections that could possibly contaminate the water distribution system. The inspection is tentatively scheduled for **N/A**. Our inspector will do their best to be on-site this day, however, we may be on-site the day before or after the scheduled date. The inspection must be completed during normal business hours of 8:00 a.m. to 5:00 p.m. If you need a more specific time, please call 1-844-493-7641 to arrange an appointment.

Any costs associated with the replacement, modification(s), installation, and/or testing of backflow prevention assemblies are the responsibility of the property owner/manager and/or occupant.

You will be notified following the inspection if modification(s) and/or testing of backflow prevention assemblies are necessary. We look forward to working with you in protecting the drinking water supply.

If you have any questions or require additional information, please contact HydroCorp from 8 am to 6 pm EST Monday through Friday at 1-844-493-7641 or visit their website at hydrocorpinc.com.

Facility Survey/Inspection

Visual Review & Documentation



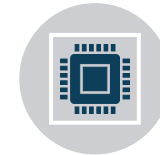
Numerous surveys daily in a designated client community



Greets building owner/occupant and explains the purpose of the site visit and expectations.



Using a tablet, surveys/assesses, and documents existing backflow prevention devices and/or assemblies.



Documents each backflow preventer location, size, manufacturer, model # and serial # and investigates to verify most recent test of BFP assembly



Documents any mandatory corrective action into the HydroSoft client database

Violation Notice Example

Cross Connection Control Inspection Non-Compliance Notice

John Smith
P.O. Box 123
Perfectville, MI 48098

Print Date: 7/15/2019

RE: [FACILITYNAME] at [SERVICEADDRESS1]

Reference Number: **933-DB1-3DB**

Dear Water Customer,

The purpose of the [ORGNAM]e's Cross Connection Control Program, as defined in Local Ordinance [ORDINANCENUMBER], is to help eliminate possible contamination of the public water distribution system. There are two required components of the program; 1) site inspection, and 2) testing of backflow prevention assemblies.

An inspection of your facility's internal water distribution system was completed on [LASTSURVEYDATE]. Inspectors reviewing your water system found connections that could possibly contaminate the public water distribution system. A list of requirements is enclosed.

Requirements on this list must be addressed using only State approved backflow prevention devices. A licensed plumber should be able to assist you with acquiring approved backflow prevention devices. Some backflow prevention devices (assemblies) also require testing by a State Certified Tester. We suggest that the licensed plumber installing the testable assemblies also have the state certification to test assemblies. **All testable assemblies must be tested immediately at the time of installation.**

These requirements must be completed by [RESPONSEDATE]. After the requirements and devices have been installed (if applicable) please call the number below on or before the date listed above to schedule a compliance inspection. Failure to comply could result in discontinuation of water service.

To arrange for compliance review or if you require additional information, please contact HydroCorp at 1-844-493-7641 or visit their website at www.hydrocorpinc.com

Order #	Device Type	Qty	Comment
2	HBVB		Install Hose Bibb Vacuum Breaker (ASSE #1011) on hose bibb by slop sink in restroom. - Re: Michigan Plumbing Code, Section 608.15.4.2.
4	VMBP		Install Backflow Preventer for Beverage Dispensing Equipment (ASSE #1022) in supply to cappuccino machine. - RE: Michigan Plumbing Code section 608.16.10

Inspection Report



ZZ Sample-Com
 Organization Inspections Conducted
 Criteria:5/1/2024 - 6/7/2024



Inspection Summary:

Inspections Conducted:	0	Compliant:	0	Cancelled:	0	Initial Inspections:	0
Facilities Inspected:	9	Non Compliant:	0	Vacant:	0	Compliance Inspections:	0
Scheduled:	37	Rescheduled:	0	Inactive:	0	Reinspections:	0
To Be Scheduled:	0	Delayed:	0	Shutoff:	0		

Inspection Detail:

Facility Name	Service Address	Scheduled	Inspected	Type	Status	Inspector
(JM) Car Wash	555 Main	05/16/2024	05/16/2024	Re-Inspection	Scheduled	Sample Sync
Circle K (Sample)	123 St.	05/16/2024	05/16/2024	Initial Inspection	Scheduled	Sample Sync
(TU) Gas Station	555 Main	05/23/2024	05/23/2024	Re-Inspection	Scheduled	Sample Sync
7 Main LLC ED X	7 N Main St	05/23/2024	05/23/2024	Initial Inspection	Scheduled	Sample Sync
Easy Bake Desserts	1919 Bakers Avenue	05/30/2024	05/30/2024	Re-Inspection	Scheduled	Select Your Name
Inspector Training - A	123 Train St.	06/04/2024	06/04/2024	Initial Inspection	Scheduled	Sample Sync
Inspector Training - C	125 Train St.	06/04/2024	06/04/2024	Initial Inspection	Scheduled	Sample Sync
Jimbobs Liquor	12345 Drunkard Ct	06/04/2024	06/04/2024	Re-Inspection	Scheduled	James Simon
K-Tool Corp	31111 Wixom RD	06/04/2024	06/05/2024	Re-Inspection	Scheduled	Select Your Name



Violation Report



ZZ Sample-Com
Violations
Criteria:5/1/2024 - 6/6/2024



Violation Summary:

Total Violations: 16
Total Facilities with Violations: 8

Violation Details:

Facility Name	Service Address	Order #	Location/Comments
(JM) Dry Cleaner	555 Main	1	Adjust (2) existing Anti-Siphon Ballcocks (ASSE 1002) in water closets of women's (1) and men's (1) restroom on the first floor and/or cut overflow pipe in order to provide a minimum of a 1" air gap measured from the critical level (C-L) of the device to the full opening of the overflow pipe. RE: Michigan Plumbing Code section 425.3.1
(JM) Dry Cleaner	555 Main	5	Install Hose Bibb Vacuum Breaker (ASSE #1011) on hose threads of Hose drop located next to tire machine.
(JM) Dry Cleaner	555 Main	7	Repair/Replace missing top cover of built in atmospheric vacuum break on faucet fixture outside of wash room.
(JM) Dry Cleaner	555 Main	9	Adjust existing Anti-Siphon Ballcock (ASSE 1002) in water closet of Women's restroom and/or cut overflow pipe in order to provide a minimum of a 1" air gap measured from the critical level (C-L) of the device to the full opening of the overflow pipe. RE: Michigan Plumbing Code section 425.3.1
(JV) Sample Inspection #21	555 Main St	3	Install Anti-Frost Hose Bibb Vacuum Breaker (ASSE #1011, Watts NF8 or Equal) On Outside Hose Bibb - Re: Michigan Plumbing Code, Section 608.15.4.2.
(TU) Gas Station	555 Main	2	Install Backflow Preventer for Beverage Dispensing Equipment (ASSE #1022) in supply to carbonated beverage machine - Re: Michigan Plumbing Code table 608.16.1
Easy Bake Desserts	1919 Bakers Avenue	20	Install 1" air gap on drain of ice maker in
Jimbo's Liquor	12345 Drunkard Ct	2	DCV needed for fire protection bypass above the RPBP
Jimbo's Liquor	12345 Drunkard Ct	5	Install Reduced Pressure Backflow Prevention Assembly (ASSE #1013) in supply to water back-up sump pump.NOTE: RPBP will replace inappropriate existing vdcv
JJ's Auto Repair	555 Main St	3	Install Hose Bibb Vacuum Breaker (ASSE #1011) on hose threads of hose drop located next to tire machine
JJ's Auto Repair	555 Main St	5	Repair/replace missing top cover of built in atmospheric vacuum breaker on faucet fixture outside wash room



Address/Device Report



(TU) Dental Clinic
555 Main
Sample
Cross Connection Control Program



Backflow Preventer Summary:

Count of Existing:	7	Initial Inspection Date:	04/14/2017	Last Notice Sent:	Non Com 2
Count of Required:	3	Last Inspection Date:	04/14/2017	Last Notice Date:	12/05/2017
Inspection Freq:	12	Current Survey Status:	Non-Compliant	Facility Type:	Dental

Existing Backflow Preventers:

Ord #	Device Type	Protection	Manufacturer	Model #	Serial #	Size	RO #	Last Test	Comments
4	RRF	Restroom Fixtures	- N/A -	- N/A -		0			Restroom fixtures (4) in restrooms (4)
5	PVB	Lawn Sprinkler System	Watts	800	394623.2	1			Lawn Sprinkler System on outside east wall
6	HBIVB	Outside Hose Bibb	- N/A -	- N/A -		0			Outside Hose Bibb (2) north and south walls
7	AVB	X-ray Developer	- N/A -	- N/A -		0			X-ray developer
8	AG	Isolation	- N/A -	NA		0			Model grinder
9	HBVB	Slop Sink	- N/A -	- N/A -		0			Slop Sink in utility room
10	AVB	Isolation	- N/A -	- N/A -		0			Vacuum pump

Required Backflow Preventers:

Ord #	Device Type	Protection	Size	Comments
1	RRF	Restroom Fixtures	0	Adjust (Cut) Overflow Pipe in Water Closet of unisex Restroom in Order to Provide a Minimum of a 1" Air Gap Measured From the Critical Level (C-L) of the Existing Anti-Siphon Ballcock to the Full Opening of the Overflow Pipe. RE: Michigan Plumbing Code Section 425.3.1
2	RPBP	Dental Chair	0	Install Reduced Pressure Backflow Prevention Assembly (ASSE #1013) in supply to Dental Chairs



Project Fees – Non-res CCC Program

5 year – 1,500 Commercial Facilities & Residential Properties

Includes supplying vacuum breakers to both businesses and homeowners

Number of Inspections	# of Months	Yr 1 Annual Cost*
214/year 178 initial 36 compliance	60	\$22,278.01

**Pricing based on 5-year commitment with 4% increase annually*

**see proposal document for additional details*

**Proposed pricing is valid for 90 days from the receipt of this proposal.*



Questions/Next Steps

- Engage additional stakeholders
- Collaborate on mutually agreed project plan
- Talk through budget process
- Establish target timeline

At HydroCorp, we are committed to excellence in service and technical expertise that sets us apart as a trusted partner in protecting drinking water for communities nationwide.