

THE CORPORATION OF THE TOWN OF GANANOQUE
BY-LAW NO. 2022-032

**BEING A BY-LAW TO PROVIDE FOR THE REGULATION OF BACKFLOW
PREVENTION AND CROSS-CONNECTION CONTROL FOR THE TOWN OF
GANANOQUE'S JAMES W. KING DRINKING WATER SYSTEM**

WHEREAS Section 8 of the *Municipal Act*, R.S.O. 2001, S.O. 2001, as amended, provides that a municipality has the capacity, rights, powers and privileges of a natural **Person** for the purpose of exercising its authority under the Act;

AND WHEREAS Section 9 of the *Municipal Act*, 2001, provides a municipality has the capacity, rights, powers and privileges of a natural **Person** for the purpose of exercising its authority under this or any other Act;

AND WHEREAS Section 10 (2) of the *Municipal Act*, 2001, S.O. 2001, provides that a single-tier municipality may pass By-laws respecting matters within the spheres of jurisdiction set out therein including, inter alia, public utilities;

AND WHEREAS Section 80 (1) of the *Municipal Act*, 2001, S.O. 2001, provides that a municipality may enter onto land to which it supplies a public utility to inspect, repair, alter or disconnect the service pipe or wire, machinery, equipment and other works used to supply the public utility;

AND WHEREAS Section 11 of the *Safe Drinking Water Act*, requires every **Owner** and operator of a **Municipal Drinking Water System** to ensure that all water provided by the system meets the requirements of drinking water quality standards and that the drinking water system is operated in accordance with the *Safe Drinking Water Act*;

AND WHEREAS it is essential to the citizens of the **Town** of Gananoque to have a reliable, safe supply of drinking water;

AND WHEREAS the *Municipal Act*, 2001, S.O. 2001, c. 25, provides that the powers of every Council are to be exercised by By-law;

AND WHEREAS the Council of the **Town** of Gananoque received Council Report UTIL-2022-05, and concurs with the recommendation to pass a By-law to provide for the regulation of Backflow prevention and Cross-Connection control for the **Town** of Gananoque's James W. King Drinking Water System;

AND WHEREAS the Council of the Corporation of the **Town** of Gananoque deems it appropriate to pass such a By-law.

NOW THEREFORE be it resolved that the Council of the Corporation of the **Town** of Gananoque enacts as follows:

1. DEFINITIONS:

For the purpose(s) of this By-law, wherever a word is used with its first letter Capitalized and **bolded**, the Term is being used as it is defined in this Section 1. Where any word appears in ordinary case, its regularly applied meaning in the English language is intended.

- 1.1. "**Authorized Functions List**" means the list of functions and the **Person(s)** authorized to carry out such functions as set out as Schedule 'A' of this By-law, in conjunction with the **Town's** pre-qualification program.
- 1.2. "**Auxiliary Water Supply**" means any water source or system, other than the **Town's Municipal Drinking Water System**, that may be available in a **Building** or on any property.

- 1.3. "**Backflow**" means the flowing back of or reversal of the normal direction of flow of water.
- 1.4. "**Backflow Prevention Device**" means a device or method that prevents **Backflow**.
- 1.5. "**Backflow Prevention Device Test Report**" means a standard **Town** of Gananoque **Cross-Connection** control test report, as amended from time-to-time.
- 1.6. "**Backflow Prevention Device Test Tag**" means a standard **Town** of Gananoque **Cross-Connection** control test tag, as amended from time-to-time.
- 1.7. "**Building**" shall have the same meaning as set out in the *Building Code Act*, S.O. 1992, c. 23, as amended.
- 1.8. "**Certified Tester**" means an individual who has been certified as a tester by the Ontario Water Works Association (OWWA).
- 1.9. "**Cross-Connection**" means any actual or potential connection between a **Potable Water** supply or system (including the **Municipal Drinking Water System**) and any source of pollution or contamination and includes any bypass, jumper connection, removable section of pipe, swivel or changeover device and any other temporary or permanent connection arrangement through which **Backflow** may occur.
- 1.10. "**Cross-Connection Survey**" means a report which must include existing **Backflow Prevention Devices**, **Cross-Connections** discovered, corrective measures and recommendations on the standard **Town** of Gananoque **Cross-Connection Survey**, as amended from time-to-time.
- 1.11. "**CSA Standard**" means the document entitled CANISCSA-B64.10-94 and Amendments Manual for the Selection, Installation, Maintenance and Field Testing of Backflow Prevention Devices, published in 1994, by the Canadian Standards Association (CSA) or any successor thereof.
- 1.12. "**Fire Hydrant**" means an upright pipe with a nozzle or spout for drawing water from a water main for the purpose of fighting fires and other municipal operational uses.
- 1.13. "**Minor Hazard**" means an existing connection or potential connection between the domestic water pipe and any pipe, vat or tank intended for carrying or holding **Potable Water**, which has a low probability of becoming a **Moderate Hazard**.
- 1.14. "**Moderate Hazard**" means an existing connection or potential connection between the domestic water pipe and any pipe, vat or tank intended for carrying or holding **Potable Water**; or a **Cross-Connection** or potential **Cross-Connection** involving any substance which has a low probability of becoming a **Severe Hazard** and would constitute a nuisance or be aesthetically objectionable if introduced into the **Municipal Drinking Water System**.
- 1.15. "**Municipal Drinking Water System**" means the **Town's** system of works, excluding plumbing, that is established for the purpose of providing users of the system with drinking water, and that includes:
- 1.15.1. Anything used for the collection, production, treatment, storage, supply or distribution of water;

- 1.15.2. Anything related to the management of residue from the treatment process or the management of the discharge of a substance into the natural environment from the treatment system, and;
- 1.15.3. A well or intake that serves as the source or entry point of raw water supply for the system.
- 1.16. "**Owner**" means the registered **Owner** of the lands and **Premises** or the **Person** or his authorized agent in lawful control of the **Premises, Building** or occupancy and who permits the operation or maintenance of any business.
- 1.17. "**Person**" includes any individual, Corporation, partnership, company, association or party and the heirs, executors, administrators, or other legal representative of such **Person**, to whom the context can apply according to law; shall include any group of **Persons** comprising a society or other organization and shall include the plural wherein the context requires. Wherever the word "he" or "him" is used, it shall mean and include the feminine or neuter gender wherever the context so requires.
- 1.18. "**Plumbing System**" means a system for water and wastewater not on the **Town** right of ways and easements, separate from the **Municipal Drinking Water System** as defined in the *Building Code Act*.
- 1.19. "**Potable Water**" means water that is safe for human consumption.
- 1.20. "**Premises**" means any real property and the Buildings it contains.
- 1.21. "**Premise Isolation**" means isolation of the water located within a **Building** or **Structure** from the **Municipal Drinking Water System**.
- 1.22. "**Private Fire Hydrant**" means an upright pipe with a nozzle or spout that is situated on private property for drawing water from a water main for the purpose of fighting fires.
- 1.23. "**Severe Hazard**" means an existing connection or potential connection between the domestic water pipe and any pipe, vat or tank intended for carrying or holding **Potable Water**; or a **Cross-Connection** or potential **Cross-Connection** involving and substance in sufficient concentration to cause death, spread disease or illness, or contain any substance which has a high probability of causing such effect.
- 1.24. "**Source Isolation**" means isolation of the water located within or having flowed through a source or potential source of contamination within a Building or **Structure** including a device, machine, water system or the like, from any **Potable Water** system.
- 1.25. "**Structure**" means anything constructed or built permanently or temporarily which is provided with a source of **Potable Water**.
- 1.26. "**Town**" means The Corporation of the **Town** of Gananoque and includes its employees, servants and agents.
- 1.27. "**Water Meter**" means device installed within a premise(s) to record the amount of water supplied to such **Premises**.
- 1.28. "**Zone Isolation**" means the isolation of the water located within an area of a Building or **Structure** from any **Potable Water** system located within such Building or **Structure**.

2. Interpretation:

2.1. In this By-law:

- 2.1.1. Words importing the singular number or the masculine gender only, include more **Persons**, parties or things of the same kind than one and females as well as males and the converse;
- 2.1.2. A word interpreted in the singular number has a corresponding meaning when used in the plural, and;
- 2.1.3. "Subsection" when used without reference to another section, refers to a subsection contained in the same section in which the phrase is used.

2.2. It is declared that if any section, subsection or part or parts thereof be declared by any court of law to be bad, illegal or ultra vires, such section, subsection or part or parts shall be deemed to be severable and all parts hereof are declared to be separate and independent and enacted as such.

3. Application of By-law:

- 3.1. This By-law applies to all existing and future industrial, commercial, institutional and multi-residential Buildings and **Structures**, except Buildings of residential occupancies as described in Division A, Article 1.1.2.4 of Ontario Regulation 350/06 (*Building Code Act*) or any successor thereof.
- 3.2. In addition to and notwithstanding Section 3.1 of this By-law, this By-law applies where a condition exists in any **Building** or **Structure** that may be hazardous or detrimental to the **Municipal Drinking Water System**.
- 3.3. In addition to and notwithstanding Section 3.1, this By-law applies to **Plumbing System** in residential occupancies having connections to the **Municipal Drinking Water System** and any **Auxiliary Water Supply**, lawn sprinkler or irrigation system, or fire protection system (except for a residential full flow through fire sprinkler system).

4. General Provisions:

- 4.1. In addition to any other provisions of this By-law, the **Town** may at any time order an **Owner** to conduct tests, provide reports and undertake any other measures required for the prevention of Backflow or protection of a **Cross-Connection**.
- 4.2. Where a timeframe is prescribed in this By-law, the **Town** may extend the time for compliance provided such extension is reasonably required and is acceptable to the **Town**.
- 4.3. All **Cross-Connection Surveys** and **Backflow Prevention Device Test Reports** are to be submitted to the **Town** of Gananoque.

5. Backflow Prevention and Protection from Contamination:

- 5.1. No **Owner**, shall connect, cause to be connected, or allow to remain connected to a **Plumbing System** which is connected to the **Municipal Drinking Water System** or any other **Potable Water** system any piping, fixture, fitting, container, appliance, vehicle, machine or the like, in a manner which may under any circumstances, allow any liquid including but not limited to water, untreated or otherwise, waste water, or any source of pollution or any other liquid, chemical, gas or other substance to enter the **Municipal Drinking Water System** or any other **Potable Water** system.
- 5.2. In accordance with the provisions of this By-law, every **Owner** of property to which this By-law applies shall ensure that a **Backflow Prevention Device** is installed (at the **Owner's** expense) in respect of **Premise Isolation**, **Source Isolation** and/or **Zone Isolation** in every Building or **Structure** where a **Municipal Drinking Water System** or other **Potable Water** exists.

- 5.3. No **Owner** shall connect, cause to be connected, or allow to remain connected; any **Auxiliary Water Supply** to the **Municipal Drinking Water System**.
6. **Required Surveys:**
- 6.1. Every **Owner** of a **Building** or **Structure** as set out in Section 3 shall cause to be carried out a **Cross-Connection Survey** of the **Plumbing System** associated with each of his or her **Buildings** and **Structures** and shall ensure that such survey is undertaken by approved personnel pursuant to the **Authorized Functions List** (see Schedule 'A') at the **Owner's** expense.
- 6.2. The **Cross-Connection Survey** shall be in the standard **Town** of Gananoque **Cross-Connection Control Survey** format, as amended from time-to-time, and shall be completed along with a **Backflow Prevention Device Test Report**, if required, which shall include existing **Backflow Prevention Devices**, Cross-Connections discovered, corrective measures, recommendations and a schedule of work to be completed. The survey and report shall be submitted to the **Town** of Gananoque within sixty (60) days of the date of the request.
- 6.3. A **Cross-Connection** control program survey shall be completed at a frequency of:
- 6.3.1. Every five (5) years from the date of the first survey requested;
- 6.3.2. Upon change of ownership or change of use or as otherwise required by the **Town**.
- 6.4. Upon identification of **Severe Hazard**, the approved company or **Person** as prescribed in the **Authorized Function List** and/or **Owner**, within twenty-four (24) hours shall notify the **Town** in writing.
7. **Application of Standards and Selection of Methods:**
- 7.1. Except as otherwise set out in this By-law, the installation, maintenance, and field testing of **Backflow Prevention Devices** shall be in accordance with Canadian Standards Association (CSA).
- 7.2. Every **Owner** shall ensure that every **Backflow Prevention Device** required for **Premise Isolation** on their property is a testable device and is the proper device to be used pursuant to Section 5.2.
- 7.3. The **Backflow Prevention Devices** whether it be for **Premise Isolation**, **Source Isolation** or **Zone Isolation** shall be determined by a professional engineer or master plumber using the Building Code, as amended, or any successor thereof; and the CSA Standard, as amended or any successor thereof.
- 7.4. Despite Section 5.2., where a **Source Isolation Backflow Prevention Device** has been previously installed by the manufacturer of equipment, the **Cross-Connection** is required to be reviewed by an approved company or **Person** as prescribed in the **Authorized Functions List** to determine if the **Backflow Prevention Device** meets the selection specifications. These **Cross-Connections** are to be clearly indicated on the **Cross-Connection Survey**.

8. Installation of Backflow Prevention Devices:

8.1. Every **Person** installing a **Backflow Prevention Device** shall ensure that:

- 8.1.1. Such device is installed in accordance with acceptable engineering practices and the requirements of the *Building Code Act*, as amended or any successor thereof; this By-law, and the CSA Standard or any successor thereof; such device is installed in a **Building** or **Structure**;
- 8.1.2. Such device is located in such a manner so that in the event of backflow the device prevents contamination of the **Municipal Drinking Water System** and any other **Potable Water** system;
- 8.1.3. Where such device is installed in respect of **Premise Isolation**, such device is located within a maximum of 3.0 meters downstream of the **Water Meter**, except where circumstances require the device to be installed upstream of the **Water Meter** and such location is to the satisfaction of the **Town**;
- 8.1.4. Where such device is installed in respect of **Premise Isolation**, all piping between the **Water Meter** and such device is clearly and permanently labelled "no connections permitted";
- 8.1.5. Where such device is installed in respect of **Source Isolation** or **Zone Isolation**, all piping between the point of potential contamination and the point at which the device is located is clearly and permanently labelled "non-potable water" and no new connection shall be permitted unless authorized by the **Town**, and;
- 8.1.6. Where such device is installed in a public pool as defined in the *Building Code Act*, all exposed water piping within the water treatment service room shall be colour coded by means of:
 - 8.1.6.1. Painting the entire outer surface of the piping, or;
 - 8.1.6.2. Coloured bands at least 25mm (1 inch) in width that are spaced along the piping at intervals of not more than 1200mm (4 feet 1 inch);
 - 8.1.6.3. Colour coding referred to in Subsections 8.1.6.1. and 8.1.6.2., shall be yellow for chlorine and green for **Potable Water**.

8.2. Every **Owner** of property upon which a **Backflow Prevention Device** is installed shall ensure that such device is maintained in proper working order at all times.

8.3. Wherein the opinion of the **Town** is that a risk of possible contamination of the **Municipal Drinking Water System** exists, an **Owner** on notice from the **Town** shall install **Premise Isolation** in addition to any other source of protection devices on the **Premise**.

9. Maintenance and Field-Testing of Cross-Connection Control Methods:

9.1. Every **Person** who tests a **Backflow Prevention Device** shall carry out such testing in strict accordance with this By-law and the CSA Standard.

9.2. Notwithstanding the CSA Standard, Section 6.3.1., every **Person** who tests a **Backflow Prevention Device** shall enter the results of such test on a **Backflow Prevention Device Test Report**.

9.3. Every **Person** who tests a **Backflow Prevention Device** shall:

- 9.3.1. Be a Certified Tester by the Ontario Water Works Association (OWWA) in addition to meeting the requirements listed on the **Authorized Functions List** in Schedule 'A';

- 9.3.2. Within fourteen (14) days of carrying out such a test, provide a legible Test Report to the **Town**;
 - 9.3.3. Upon completing such test, complete and affix a standard **Town of Gananoque Backflow Prevention Device Test Tag** to the device or immediately adjacent to the device on the piping connected thereto, and;
 - 9.3.4. Upon finding that such device is malfunctioning or otherwise not maintained in proper working order, immediately notify the **Owner** of the **Premises** and the **Town** in writing of such condition.
- 9.4. Every **Owner** who has a **Backflow Prevention Device** located on their property shall ensure that:
- 9.4.1. Such device is tested by a qualified tester when it is first installed and annually thereafter and/or upon request by the **Town** and also when it is cleaned, repaired, overhauled, or relocated;
 - 9.4.2. When such device is tested that a **Backflow Prevention Device Test Report** is provided to the **Town** within fourteen (14) days, and;
 - 9.4.3. In the event that such device is malfunctioning or otherwise not in proper working order, the device is immediately repaired or replaced, and the **Town** is notified.
- 9.5. If an **Owner** fails or neglects to make the appropriate repairs or replace the defective device immediately after a failed test, the **Town** may issue a notice as described in Section 13 or may discontinue the supply of water from the **Municipal Drinking Water System** to the **Plumbing System** on the **Premise**.
- 9.6. If an **Owner** fails or neglects to have a **Backflow Prevention Device** tested, the **Town** may notify the **Person** that the **Backflow Prevention Device** must be tested within a specified time.
- 9.7. If an **Owner** fails to have a **Backflow Prevention Device** tested within the timeframe specified on the notice, the **Town** may discontinue the supply of water from the **Municipal Drinking Water System** to the **Plumbing System** on the **Premise** until the **Backflow Prevention Device** has been tested and approved as required by Section 9.

10. Backflow Test Equipment Maintenance:

- 10.1. Where required by CSA Standard B64.10.1 as amended; all equipment used to test **Backflow Prevention Devices** shall be verified and/or calibrated for accuracy.
- 10.2. Proof of such verification and/or calibration shall be presented to the **Town** upon request, and in conjunction with the submission of **Backflow Prevention Devices Test Reports**.

11. Removal of Backflow Prevention Devices Prohibited:

- 11.1. No **Owner** of a **Building** or **Structure** in which a **Backflow Prevention Device** is installed shall cause or permit the removal of such device or part thereof unless such removal is to replace the device with another device that meets or exceeds the provisions of this By-law.

12. Inspection for Cross-Connections – Access:

- 12.1. The **Town** shall be permitted access, within twenty-four (24) hours of providing notice, to any **Premises** that are connected to the **Municipal Drinking Water System** for the purpose of performing inspections to verify compliance with this By-law.

- 12.2. Where in the opinion of the **Town**, a risk of possible contamination of the **Municipal Drinking Water System** exists; the **Town** shall be permitted immediate access to any **Premise(s)** that are connected to the **Municipal Drinking Water System**. In such instances, the **Town** may require a routine **Cross-Connection** inspection of the **Premises** to be performed by an approved company or **Person** as described in the **Authorized Functions List** (see Schedule 'A'). Should an unsafe and/or undocumented Cross-Connection be found during said inspection, the cost of the inspection shall become the responsibility of the **Owner**.
- 12.3. Upon failure to permit access as prescribed in Section 12.1 or 12.2, a written notice by the **Town** may be issued, prescribing the timeframe within which access must be provided. If access is not provided within the prescribed timeframe, the **Town** may order the supply of water from the **Municipal Drinking Water System** to the **Plumbing System** on the **Premises** to be discontinued until such time as access is provided.
- 13. Order to Correct Cross-Connection:**
- 13.1. Should a condition be found to exist which is contrary to Section 5 of this By-law, the **Town**, at its sole discretion may:
- 13.1.1. Give notice to the **Owner** to correct the fault at their expense within a specified time period and; if the notice is not complied with, the **Town** may then discontinue the supply of municipal water to the **Plumbing System**, and/or;
- 13.1.2. Issue an Unsafe Order under 'unsafe requirements' in accordance with the *Ontario Building Code Act* if a condition exists that could be hazardous to the health or safety of **Persons** in the normal use of the **Building**, **Persons** outside the **Building** or **Persons** whose access to the **Building** has not been reasonably prevented, and/or;
- 13.1.3. Without notice to the **Owner**, discontinue the supply of municipal water to the **Plumbing System**, where the **Town**, at its discretion, has determined that an immediate severe hazard exists that could result in contamination of the **Municipal Drinking Water System** that may endanger public health or safety.
- 14. Permitted Persons and Authorized Functions:**
- 14.1. Only those **Persons** listed in the **Authorized Functions List** (see Schedule 'A') and pre-qualified with the **Town** of Gananoque shall carry out the corresponding functions set out in such list.
- 14.2. The Public Works Department, Utilities Division will administer a pre-qualification program for **Persons** listed in the **Authorized Functions List** (see Schedule 'A').
- 15. Hydrants:**
- 15.1. No **Person** shall connect, cause to be connected, or allow to remain connected, any piping, fixture, fitting, container or appliance to a **Town** owned, or private **Fire Hydrant** in a manner which, under any circumstances may allow water, wastewater or any liquid or substance of any kind to enter the **Municipal Drinking Water System**.
- 15.2. With the exception of water used for fire-fighting and municipally approved maintenance or operations, any other use of a **Town** owned, or private **Fire Hydrant** for water supply is prohibited without first acquiring approval from Public Works Department, Utilities Division.
- 15.3. Any **Fire Hydrant** situated within the road allowance is the property of the **Town** of Gananoque and shall be maintained by the **Town**.

- 15.4. All **Private Fire Hydrants** are the responsibility of the property **Owner** and must be installed and maintained according to:
- 15.4.1. **Town** of Gananoque standards as amended from time-to-time;
 - 15.4.2. The *Fire Prevention and Protection Act*;
 - 15.4.3. The *Building Code Act*, and;
 - 15.4.4. NFPA 24 – Installation of Private Fire Service Mains and Their Appurtenances.

16. Implementation and Compliance:

- 16.1. Installation of **Backflow Prevention Devices** shall occur within the timeframes as set out below, for the degree of hazard:

Degree of Hazard	Compliance Date
Severe Hazard	No later than thirty (30) calendar days from the date of identification of the Severe Hazard .
Moderate and Minor Hazard	No later than ninety (90) days from the date of notification of the Moderate or Minor Hazard

- 16.2. **Cross-Connection** control program surveys as required in Section 6 shall be submitted to the **Town** within sixty (60) calendar days of request of survey by the **Town** or within sixty (60) calendar days of notification by the **Town** of the requirement.

17. Enforcement:

- 17.1. This By-law shall be enforced by the Public Works Utilities Division staff of or any **Person** appointed by the Manager of Public Works; or Municipal By-law Enforcement Officer for the **Town**.
- 17.2. Notwithstanding Section 17.1, a **Town** Building Inspector / Officer shall enforce under a new Building Permit Application(s).

18. Fees:

- 18.1. All user fees that may apply are non-refundable and are indicated in the **Town** of Gananoque General Fees and Rates By-law.

19. Penalty:

- 19.1. Any **Person** who contravenes any of the provisions of any Section(s) of this By-law and every Director or Officer of a Corporation who knowingly concurs in the contravention of a By-law by the Corporation is guilty of an offence under the provisions of the *Municipal Act* 2001, Section 429.
- 19.2. For the purpose of continuous offences, every **Person** who contravenes any provision of this By-law and every Director or Officer of a Corporation who knowingly concurs in the contravention of a By-law by the Corporation is guilty of an offence and liable on conviction to a penalty not exceeding \$10,000, exclusive of costs under the provisions of the *Municipal Act* 2001, Section 429. Despite Section 19.1, the total of all daily fines for the offence is not limited to \$100,000.
- 19.3. For the purpose of multiple offences, every **Person** who contravenes any provision of the By-law and every Director or Officer of a Corporation who knowingly concurs in the contravention of a By-law by the Corporation is guilty of an offence and liable on conviction to a penalty not exceeding \$10,000, exclusive of costs under the provisions of the *Municipal Act* 2001, Section 429 (1). Despite Section 19.1, the total of all daily fines for the offence is not limited to \$100,000.

20. By-law Title:

20.1. This By-law shall be known as the "Backflow Prevention and Cross-Connection By-law".

21. Schedule(s):

21.1. Attached to and forming part of this By-law is the **Authorized Functions List**, marked as Schedule 'A'.

22. Effective Date:

22.1. This By-law shall be read a first and second time, signed and sealed on March 15, 2022, and; shall come into full force and effect on the date of the third and final reading.

Read a first and second time, signed and sealed this 15th day of March 2022.



Ted Lojko, Mayor



Penny Kelly

(Seal)

Read a third and finally passed this 1st day of November 2022.



Ted Lojko, Mayor



Penny Kelly

(Seal)

Town of Gananoque
By-law No. 2022-032, Schedule 'A'

Authorized Functions List								
Item	Function	Professional Engineer with OWWA Tester's Certificate	*Certified Engineering Technologist with OWWA Tester's Certificate	Licensed Master Plumber with Contractor's License and OWWA Tester's Certificate	**Journeyman Plumber with OWWA Tester's Certificate	***Apprentice Plumber with OWWA Tester's Certificate	Fire System Sprinkler Fitter with OWWA Tester's Certificate	Certified Water Operator with OWWA Tester's Certificate
1.	Carry out Cross-Connection Survey	X	X	X	X			
2.	Install, relocate or replace Backflow Prevention Device			X	X	X		
3.	Repair of Backflow Prevention Device	X	X	X	X	X		
4.	Test Backflow Prevention Device	X	X	X	X	X		
5.	Items 1, 2, 3, & 4 above in respect of Fire Protection Systems	X	X	X	X	X	X	

Town of Gananoque
By-law No. 2022-032, Schedule 'A'

Authorized Functions List								
Item	Function	Professional Engineer with OWWA Tester's Certificate	*Certified Engineering Technologist with OWWA Tester's Certificate	Licensed Master Plumber with Contractor's License and OWWA Tester's Certificate	**Journeyman Plumber with OWWA Tester's Certificate	***Apprentice Plumber with OWWA Tester's Certificate	Fire System Sprinkler Fitter with OWWA Tester's Certificate	Certified Water Operator with OWWA Tester's Certificate
6.	Item 3 & 4 above in respect of Lawn Sprinkler Systems	X	X	X	X	X		
7.	Item 2, 3 & 4 above in respect to the Municipal Water System	X	X	X	X	X		X

- * Required to be under the direction of a Professional Engineer
- ** Required to be employed by a Licensed Plumbing Contractor
- *** Required to be employed by a Licensed Plumbing Contractor and under the direct supervision of a Journeyman Plumber or Master Plumber