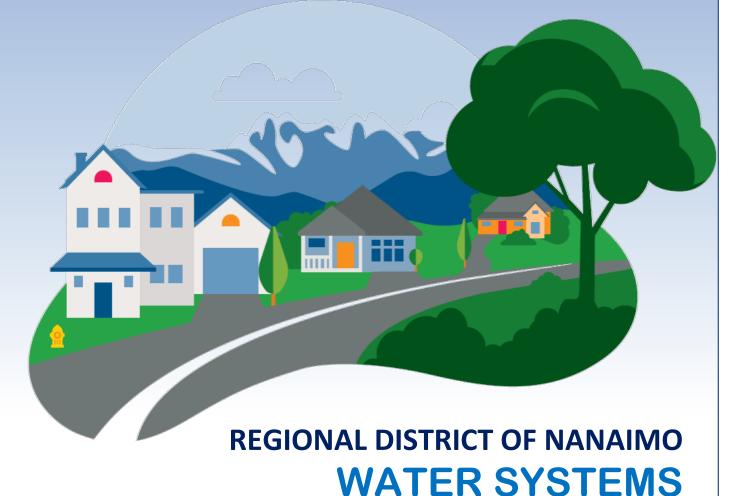
CROSS CONNECTION CONTROL PROGRAM & GUIDE





Acknowledgements

With much gratitude, this guide was put together using the resources and technical expertise from:

- MTS Maintenance Tracking Systems, Vernon, B.C.
- British Columbia Water & Waste Association
- Canadian Drinking Water Protection Act
- BC Ministry of Health (Island Health)
- BC Building Code and BC Plumbing Code
- American Water Works Association (AWWA) Pacific-Northwest Section
- US Environmental Protection Agency
- Washington State Department of Health
- University of Southern California Foundation for Cross Connection Control and Hydraulic Research



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1.0 Introduction

The purpose of a Cross Connection Control Program is to protect the public health by reducing the risk of contaminants flowing back into the public water supply.

This guide was developed for small, Regional District of Nanaimo (RDN) owned and operated water systems with less than 2,500 connections. The guide is intended to provide RDN staff with the information and tools they need to implement the Cross Connection Control Program in an ongoing and objective manner, increase potable water protection, and reduce the RDN's exposure to legal liability.

2.0 Terms of Reference

It is the consumer's responsibility to ensure that on-site water use practices or processes do not affect RDN Water Systems in a negative manner. This requirement is a condition of water service from the RDN. The type of backflow prevention measures required will depend upon the degree of hazard that exists, the probability of a backflow incident occurring, and the type of circumstance causing potential or actual backflow to occur (back-siphonage or back pressure).

The RDN's responsibility for Cross Connection Control begins at the water supply source. It includes all RDN Water System sources, wells, water treatment, storage and distribution facilities, watermains, fire hydrants, valves (including air relief valves), and ends at the downstream end of the service connection or water meter.

Under the Cross Connection Control Program, the RDN is not responsible for eliminating or controlling cross connections within the customer's water system or on-premise plumbing. This responsibility falls within the jurisdiction of the BC Building Code and the BC Plumbing Code.

The specialized terms and equipment used throughout this Cross Connection Control Program Guide are highlighted in **bold and italicized** font. A glossary of these terms is attached in Schedule 'A'.

The Cross Connection Control Program is structured to allow for updates. The RDN may, from time to time, develop bulletins that will be posted and/or distributed to apprise the general public and contractors of the requirements for Cross Connection Control that may or may not be specifically addressed in the RDN's Cross Connection Control Regulation Bylaw.

In the case of a discrepancy between the industry standards and a bulletin of the RDN's Cross Connection Control Program, the intent of the bulletin will prevail.



3.0 Key Objectives

The provincial Ministry of Health supports a *multi-barrier approach* to safe drinking water. Water purveyors are already tasked with source water protection, water treatment, secondary disinfection, water storage (reservoirs), water distribution, water quality monitoring, operation by qualified personnel, and emergency planning. Although Cross Connection Control is only one of the multiple barriers to protect water quality, it is one of the most important barriers. Without a Cross Connection Control Program, the water distribution system may become the "weak link" in the multi-barrier approach to public health protection. The key objective of the Cross Connection Control Program is to protect the public health by ensuring that the potable water supply provided by the RDN Water Systems is not contaminated due to *backflow*.

The RDN does not receive or distribute *reclaimed water*. Additionally, the RDN prohibits the intentional return of *used water* to the public water system by any connection to the water system. All water supplies other than those owned by the purveyor are considered *unapproved auxiliary supplies*. The RDN will impose *premise isolation* at the service connection to any customer having an unapproved auxiliary supply on the premises, whether or not there is a physical connection between the unapproved auxiliary supply and the purveyor's water system.

4.0 Basic Principles of a Cross Connection

A *cross connection* exists when there is an actual (or potential) physical connection between a public water system and any source of non-potable liquid, solid, or gas, that could contaminate the public water system by flowing back into the public water supply.

- **Backflow** is the flow of water (or other solid, liquid, or gas from any source) back into the potable water supply. Backflow may be due to back-siphonage or back pressure.
- **Back-siphonage** is backflow caused by a negative pressure (vacuum) in the supply piping. Back-siphonage occurs when water system pressure is reduced to below atmospheric pressure.



Back-siphonage conditions could occur in a public water system when a watermain is shut down to repair a leak. If a garden hose was submerged in a hot tub nearby, the non-potable water from the hot tub could be siphoned back through the submerged hose (a cross connection) into the household plumbing, and then into the watermain.

• **Back pressure** is backflow caused by pressure in the customer's plumbing being greater than the pressure in the watermain. The higher pressure may be from a customer's booster pump, heating boiler, or irrigation system.



Back pressure could be introduced into the public water system by a customer's irrigation pump while low-pressure conditions exist in the watermain (due to fire flows, or a watermain shut down).



The RDN's Cross Connection Control Program addresses these cross connection threats by establishing operating policies and procedures, as well as backflow preventer selection, installation, testing, and maintenance practices & procedures.

5.0 Enforcement Authority

The Cross Connection Control Program receives its authority from *Regional District of Nanaimo Cross Connection Control Regulation Bylaw No. 1788, 2019,* and the *British Columbia Building Code,* Part 7, which requires that potable water be protected from contamination.

No pump, booster or other device shall be employed by a consumer for the purposes of or having the effect of, increasing service line water pressures to higher than normal, without prior written authorization from the Regional District of Nanaimo, pursuant to Regional District of Nanaimo Water Use Regulation Bylaw No. 1654, (2012).

The Regional District of Nanaimo will take appropriate corrective action within its authority if:

- A cross connection exists that is not controlled commensurate to the degree of hazard, as assessed by the RDN; or
- A consumer fails to comply with the RDN's requirements regarding the installation, inspection, testing, maintenance, or repair of approved backflow preventers required by the RDN Cross Connection Control Program.
- Where the customer refuses to install an approved backflow assembly on an existing water connection, the RDN will install an assembly at the property line (imposing premise isolation) as soon as possible after the need for a preventer is identified, and the customer may have to bear the cost associated with the installation.
- The RDN is able to invoice the property owner directly for time and expenses to have a backflow assembly installed, or may add these charges to a building permit (where applicable). Charges that are unpaid by the property owner by December 31 of the year in which the work was done will be added to taxes in arrears or collected as debt.

6.0 Administrative Authority

The Regional District of Nanaimo *Manager of Water Services* has been designated as the Cross Connection Control Manager. This Cross Connection Control Manager is responsible for the overall management and administration of the Cross Connection Control Program. This person must be knowledgeable about the regulatory requirements for a public water system, basic industry practices, and the public health aspects of cross connection control. This person does not necessarily need to be a certified *backflow assembly tester*.

The Cross Connection Control Manager will coordinate and provide information to the local building and plumbing officials, in a timely manner, any of the following:



- A requirement imposed on a residential customer for the installation of a DCVA or an RPBA on the water service, with a description of the cross connection hazard identified;
- An upgrade of the premise isolation backflow preventer (i.e. from a DCVA to an RPBA);
- Any action taken to discontinue water service to a customer; and
- A backflow incident known by the purveyor to have contaminated the public water supply or a customer's on-premise plumbing system.

All correspondence, plans, hazard surveys, and test reports should be routed through the Cross Connection Control Manager. When technical issues arise, the Cross Connection Control Manager may contact the local health authority for regulatory interpretation questions and/or seek the advice of another experienced Cross Connection Control professional.

A Cross Connection Control Program Decision Summary table is given in Schedule 'B' to help answer policy questions in the event that someone challenges the Cross Connection Control Program. However, the Cross Connection Control Manager will make the final hazard assessment decisions.

7.0 Personnel, Training and Certification

The Cross Connection Control Manager may be the most knowledgeable about the principles of the RDN Cross Connection Control Program. However, other Water Services staff members will likely be involved in cross connection control issues because of customer-asked questions, paperwork being filed, annual reporting requirements, and field observations. All Water Services personnel involved with the operation and administration of the Cross Connection Control Program should take the appropriate Cross Connection Control training and courses recognized by industry standards.

8.0 Methods of Backflow Prevention

The greatest health risk to consumers served by public water systems lies in the introduction of a contaminant into the public water system. By design, the water distribution system is an efficient means of transporting drinking water to consumers. However, the distribution system can also become the conduit for the spread of a contaminant to a large population.

Backflow can be prevented in two ways:

- 1) Through the installation of an *air gap*, which provides a physical separation between the contaminant and the drinking water supply; or
- 2) Through the installation of a *mechanical device* or *assembly* that prevents backflow from occurring.



The Cross Connection Control Manager must ensure that the backflow preventer is suitable for the expected backflow application conditions, and be commensurate with the degree of health hazard posed by the customer's plumbing system.

Backflow preventers that are not testable are called **backflow devices**, whereas **backflow assemblies** are designed for in-line testing and repair. Backflow assemblies include isolating valves and test ports.



For premises that are not considered a high-hazard, the purveyor may rely on a mechanical device, such as a dual check valve, to protect contaminants from entering the public water system. Backflow prevention devices and/or assemblies installed by the RDN shall not be removed by the customer for any reason.

It is important that backflow assemblies are installed in a manner that will facilitate their proper operation, maintenance, inspection, and in-line testing. An unsafe or inaccessible location reduces the likelihood of an assembly being regularly inspected, tested, and maintained. The orientation of the assembly is critical to its proper operation. Additionally, freezing or high temperatures, or hazardous environments may allow contaminants to enter the assembly through the test ports, relief ports, or air inlets thereby damaging the assembly.

Up-to-date lists of approved backflow preventers and installation standards that protect a public water system from contamination via cross connections can be found in:

- The *Manual of Cross Connection Control* as published by the University of Southern California's Foundation for Cross Connection Control and Hydraulic Research (USCFCCCHR); and
- The *Cross Connection Control Manual, Accepted Procedure and Practice,* as published by the Pacific-Northwest Section of the American Water Works Association (AWWA-PNWS).

When selecting a backflow preventer for a specific situation, the Cross Connection Control Manager will consider whether the preventer is to be used for *premise isolation* or *fixture protection*.

- **Premise isolation** is used to isolate the customer's plumbing system from the public water system. Premise isolation is required for all high-hazard premises, such as hospitals, dentist offices, dry cleaners, hotels, marinas, wastewater lift stations, car washes, and more.
- **Fixture protection** is used to prevent backflow at fixtures only, such as boilers, in-flooring heating systems, and outdoor taps.



Diagrams of backflow preventer installations are shown in Schedule 'C' of this guide.

9.0 Program Elements

While utilizing good public health and good engineering practices, a municipal Cross Connection Control Program is comprised of the following elements:

- 1) Legal authority established by adopting a Cross Connection Control bylaw.
- 2) Procedures and schedules developed for evaluating risks from new and existing water service connections;
- 3) Hazard assessments undertaken, and risks listed (known or suspected);
- 4) Backflow preventers installed to protect the public water system;



- 5) Qualified personnel provided;
- 6) Cross connection record-keeping system established;
- 7) Tracking program in place for test results, and person performing tests/inspections;
- 8) Quality assurance and quality control (QA/QC) initiatives in place;
- 9) Backflow incident response plan in place; and
- 10) Public education initiated.

10.0 Program Implementation

The Regional District of Nanaimo will endeavour to prevent the contamination of the water distribution system through the ongoing implementation of the Cross Connection Control Program. The program applies not only to industrial, commercial, and institutional consumers, but also to residential consumers with auxiliary water systems, yard hydrants, underground irrigation systems, booster pumps, and where other high-hazard backflow situations may be present.

The Cross Connection Control Program applies equally to all new and existing water connections. The Cross Connection Control Manager will coordinate and interact with the local building and plumbing officials in all matters pertaining to cross connection control. The Cross Connection Control Program is intended to provide the highest level of public health and safety where the Cross Connection Control Manager believes the building and/or plumbing code does not provide protection that is commensurate with the assessed degree of hazard. A copy of the RDN Cross Connection Control Program has been provided to the RDN Building and Bylaw Services Department.

The RDN may implement the Cross Connection Control Program, or any portion thereof, directly or by means of a contract with another agency or party acceptable to the Cross Connection Control Manager.

The water purveyor has two options to ensure that cross connections between the distribution system and a consumer's water system are eliminated (or at least, controlled):

- Implement a *Premise Isolation Program*, where all backflow preventers that protect the public water system are located at the property line; or
- Implement a *Combination Program*, where premise isolation backflow preventers are installed for high-hazard facilities, and for other types of facilities backflow preventers are installed for fixture protection (or fixture isolation) within the customer's premises.

The RDN supports a *Combination Program*, where the purveyor has the opportunity to work with the customer to determine an affordable type of backflow prevention that is suitable to the degree of hazard.



A restaurant may be permitted to install small, fixture, or zone isolation assemblies at a much lower expense than installing a large premise isolation assembly at the property line.



To protect the public water system from contamination, the water purveyor (the RDN) will take corrective action when they become aware of unprotected cross connections and/or customers fail to comply with the purveyor's Cross Connection Control Program requirements. Corrective actions may include:

- Denying or discontinuing water service to the non-complying customer;
- Requiring the customer to install an approved backflow preventer at his/her expense, to the satisfaction of the RDN Cross Connection Control Manager; or
- Installing an approved backflow preventer for premise isolation at the RDN's expense.

The RDN supports the latter two choices of above-noted corrective actions. There are liabilities associated with shutting off a customer's water service, such as sickness or death from poor sanitation, and liability to public safety from shutting off a fire supply line. A temporary water service shut-off may, however, still be appropriate under emergency conditions.

The RDN will document, on a case-by-case basis, the reason(s) for exempting the installation of a backflow preventer on a high-hazard service connection, and will copy such documentation to the local health authority. A summary of the existing properties where a backflow preventer has been exempted from a high-hazard use premise is attached in Schedule 'D' of this guide.

11.0 Assessment and Re-Assessment of Risk

RDN staff will utilize information available in public directories, business license records, zoning maps, and the RDN water billing register to determine where industrial, commercial, institutional, multifamily, and other high-hazard backflow situations may exist.

The RDN will conduct a periodic re-evaluation of the customer base to confirm that the appropriate backflow preventers are in place. The recommended schedule of risk assessment is given in the table below.

Task	Schedule
Re-assessment of entire customer list for high-hazard premises	Every 12 months
Re-assessment of residential connections with special plumbing	Every 12 months

A Water Use Questionnaire (attached in Schedule 'E') is to be completed by the customer, upon request, for the purpose of establishing the purveyor's minimum requirements for the protection of the public water system. Additionally, the RDN will consider and mitigate the risks from the following water service connections:

 Where the in-premise plumbing system may have been changed by the customer without the purveyor's knowledge and/or the approval of the building/plumbing inspector;



- Where the customer has failed to test, maintain, and/or repair the backflow preventers that the purveyor relies on to protect the public water system;
- Where a home-based business may have started or ceased operation without the purveyor's knowledge;
- Where the customer has a repeat history of cross connections being established; and
- Where the BC Building Code and/or BC Plumbing Code fails to meet public health standards for backflow prevention as determined by the Cross Connection Control Manager.

12.0 Location and Ownership of Backflow Assemblies

The Cross Connection Control Program is in place to ensure that once a high-hazard premise has been identified, an approved backflow preventer is installed *as soon as possible* after the need for a preventer is identified. The RDN will communicate openly with all customers in an effort to meet the objectives of the Cross Connection Control Program. Example correspondence letters are attached in Schedule 'E' for reference. The recommended schedule for installation of backflow preventers is given in the table below.

Task	Schedule
Installation of approved backflow preventer on new service	Before water service is turned on
Installation of approved backflow preventer on any existing service	As soon as possible, and within 90 days of notice given

Premise Isolation Assemblies

- If premise isolation assemblies are owned by the RDN, they will be installed along with a water meter, within the public right-of-way or in a utility easement.
- If premise isolation assemblies are installed on the customer's side of the property line, they are owned by the customer. No connections may exist between the water meter and the backflow assembly.



An advantage to the purveyor owning the premise isolation assembly is the increased reliability of the assembly that protects the water system.

Fixture / Zone Isolation Assemblies

Since fixture isolation and zone isolation assemblies are located on the customer's premises, the RDN will endeavour to protect public water system as follows:

 The RDN will determine what plumbing hazards (fixtures) must be isolated with approved backflow assemblies that would provide the same level of protection to the public water system as premise isolation;



- If the backflow assembly is installed on-premises (on private property), the RDN will require
 proof that the backflow assembly is commensurate with the degree of hazard, is approved by
 the USCFCCCHR, and is installed, inspected, tested, maintained, and repaired to the equivalent
 level of protection that would be provided by a premise isolation backflow assembly.
- The RDN may require a contract or service agreement be established with the customer that stipulates the provision of water service subject to the terms and obligations spelled out in the agreement. A service agreement template is attached to this guide in Schedule 'E'.
- The customer will have the option of permanently eliminating the cross connection in lieu of installing a backflow preventer.



An advantage to a customer-owned fixture isolation assembly is that the RDN would avoid the cost of purchase, installation, maintenance, repair, replacement, and the accompanying liability for assembly failure.

Where the customer refuses to install an approved backflow assembly on an existing water connection, the RDN will install an assembly at the property line (imposing premise isolation) as soon as possible after the need for a preventer is identified, and the customer may have to bear the cost associated with the installation.

13.0 Backflow Assembly Testing

The RDN will endeavour to have a *certified backflow assembly tester* on staff at all times. Having a certified backflow assembly tester on staff increases the quality of control over testing, decreases potential liability from a backflow incident, has less administrative costs than hiring a contractor, and better serves the public because the customer is relieved of this onerous annual task.

All backflow assemblies installed at the request of the Cross Connection Control Manager or the Plumbing/Building Inspector on behalf of the RDN, shall be tested in accordance with the CSA-B64.10 (or most current edition) Manual for the Maintenance and Field Testing of Backflow Prevention Devices by a certified backflow assembly tester when the assembly is installed, repaired or relocated and then annually thereafter, or more frequently if required by the Cross Connection Control Manager.

All air gaps and atmospheric vacuum breakers shall be inspected, respectively, at the request of the Cross Connection Control Manager.

In the event an assembly fails a test, the assembly must be repaired or replaced within fifteen (15) calendar days of the initial test date or other time agreed to by the Cross Connection Control Manager. The assembly must then be tested again to ensure that it is in proper working order. The test result must be submitted, within thirty (30) calendar days of the initial test date, to the RDN Cross Connection Control Manager. After review and acceptance of the test report, the assembly is considered in proper working order if it passes the applicable test in accordance with the CSA-B64.10 standard listed above.



The RDN is not authorized to enter private premises for the purposes of testing backflow preventers without permission, prior authorization, or contract-agreement, and therefore may provide the customer, upon request, with an up-to-date list of certified backflow assembly testers. However, an RDN Bylaw Enforcement Officer has the authority to enter at all reasonable times a customer's property in order to ascertain whether the requirements of the *Regional District of Nanaimo Cross Connection Control Regulation Bylaw No. 1788 (2019)* are being met or observed.

If a cross connection is found or suspected to exist that poses a potential risk of backflow within the customer's in-premise plumbing system, the customer will be notified of the risk. However, the purveyor is only responsible for the potable water supply delivered to the customer's water meter.

On private property (such as a strata complex, or mobile home park), where the potable water supply is distributed to numerous customers after the water meter, the jurisdiction to protect public health lies with the provincial health authority. Additionally, the BC Plumbing Code applies within the customer's premises, and within all structures intended for occupancy. The purveyor is not responsible for repairing or reporting any circumstances under the control of the customer (i.e. beyond the meter).

Test Report Form

The RDN has developed a test report form for all testable backflow assemblies that are installed in RDN Water Systems. All test results must be submitted on an approved RDN backflow assembly test report form (attached in Schedule 'E'). Test gauge values must be indicated on the test report for each test result.

Test Report Acceptance

The RDN retains the right to accept or reject submitted backflow preventer test reports based on errors, discrepancies and/or omissions. This process will be complete within thirty (30) calendar days from the receipt of the test record. If consecutive errors or omissions are noted on test forms submitted by a certified backflow assembly tester, the RDN reserves the right to refuse recognition of the tester as certified.

Test Tag

A tag or label must be securely attached to every assembly. It is the responsibility of the certified backflow assembly tester to ensure that this tag is fully completed after each test with a **permanent waterproof pen.** A copy of an approved RDN test tag is attached in Schedule 'E'.

Test Schedule

A schedule for testing backflow preventers in RDN Water Systems shall be as follows:

Task	Schedule*
Testing backflow preventer where RPBA is installed for premise isolation	Every 12 months
Testing backflow preventer where DCVA is installed for premise isolation	Every 12 months



Auditing dual check valve devices used in premise isolation	100 units/year
Testing RDN-owned assemblies in RDN Water Systems	Every 12 months
Testing RDN-owned assemblies in non-RDN Water Systems	Every 12 months

^{*}Or sooner: after a repair, reinstallation, relocation, or re-plumbing, or after a backflow incident has occurred.

14.0 Fire Hydrant & Temporary Use

Pursuant to *Regional District of Nanaimo Water Use Regulation Bylaw No. 1654 (2012),* the Regional District of Nanaimo requires that a Fire Hydrant Use Permit Application be completed and approved for temporary use of water through a Regional District fire hydrant connection to prevent contamination of the water distribution system. Fire Departments are exempt from this permit process.

Only an RDN-owned backflow prevention assembly installed by RDN staff shall be used during a temporary connection to an RDN fire hydrant. A copy of the Fire Hydrant Use Permit Application Form is attached in Schedule 'E'.

15.0 Backflow Incident Response Plan

An Emergency Response Plan has been developed in accordance with the Drinking Water Protection Regulation - Section 15 (or most current), and includes any incident arising from a backflow occurrence.

The backflow incident response plan includes, but is not limited to:

- Notifying the affected users;
- Notifying the local health authority as soon as possible, but no later than the end of the next business day;
- Identifying the source of the contamination;
- Isolating the source of contamination and the affected area(s);
- Providing a temporary, alternate supply of drinking water;
- Cleaning, flushing, and taking other measures to mitigate and correct the problem;
- Applying corrective action(s) to prevent future backflow occurrences;
- Documenting details of the backflow incident; and
- Including a summary of backflow incidents in the Annual Water System Reports submitted to the local health authority.

16.0 Consumer Education

The Regional District of Nanaimo will develop educational tools to inform consumers of what constitutes a *cross connection*, common conditions that could result in a backflow hazard, and how to eliminate the hazard.



As the water purveyor, the RDN will distribute with water bills or some other means, at regular intervals, public education brochures to water system customers. For residential customers, such brochures will describe the cross connection hazards in the home and the recommended backflow assemblies or devices that should be installed by the homeowner to reduce the hazard to the public water system. The education program will emphasize the responsibility of the customer in preventing the contamination of the public water supply. The information distributed by the purveyor will include, but not be limited to, the following subjects:

- Cross connection hazards and corrective actions, in general;
- Irrigation system and fire sprinkler cross connection hazards;
- Booster pump and auxiliary water supply hazards;
- Thermal expansion hazards; and
- Importance of annual inspection and/or testing of backflow preventers.

The RDN may also inform its customers about the Cross Connection Control Program by:

- Distributing a brochure to new customers with their application for water service;
- Including a statement in the Annual Water System Reports to Island Health;
- Creating a webpage with visual examples and links to local resources;
- Distributing brochures to hardware and plumbing stores serving the area;
- Participating in fairs, exhibitions, and other community events; and
- Hosting special education sessions for irrigation contractors, fire sprinkler contractors, and local backflow assembly testers, etc.

Bulletins, changes in policy, and related program announcements will be distributed to consumers immediately, as well as pertinent municipal departments, engineering consultants, contractors, and other commercial service providers. In the case of a discrepancy between the industry standards and a bulletin of the RDN's Cross Connection Control Program, the intent of the bulletin will prevail.

17.0 Program Funding

For small water systems with primarily residential customers, the administration of a Cross Connection Control Program adds only a small amount to the system's existing workload. However, with more than ten separate, small water systems, the RDN will provide a line item in its annual budgets to administer the Cross Connection Control Program effectively. To reduce and/or recover the costs of the Program, the RDN may:

- Assess the general administrative costs of the cross connection program to all customers through the use of consumption charges, monthly charges, or supplemental charges based on the size of the backflow assembly; or
- Require that each customer directly bear the costs of the hazard surveys, as well as the costs associated with the purchase, installation, testing, maintenance, repair, or replacement of any backflow assemblies; or



• Use a combination of consumption charges along with a flat-rate assessed to a specific class of customers (i.e. Commercial).

As the Cross Connection Control Program grows and changes, the method of cost recovery may be adapted as determined by the Manager of Water Services.

18.0 Record Keeping

An inventory will be made of all identified cross connection risks along with the approved methods used to eliminate or control the cross connections. All records will be maintained in hard copy and, where applicable, in an electronic database.

The type of records and data to be maintained in the RDN Cross Connection Control Program are:

- Name/address of all service connections;
- Assessed degree of hazard;
- Required backflow preventer to protect the public water system;
- Air gap location, installation and inspection dates, inspection results, and name of person conducting inspections;
- Backflow assembly location, description (type, manufacturer, make, model, size and serial number), installation, inspection and test dates, test results, and person performing tests;
- Information on AVBs used for irrigation system applications, including manufacturer, make, model, size, dates of installation and inspections, and person performing inspections;
- Customer notification and correspondence;
- Customer agreements/contracts;
- Backflow incidents and investigations;
- Enforcement actions taken; and
- Staff training and (re)certification records.

19.0 Quality Assurance and Quality Control (QA/QC)

The purpose of a Quality Assurance and Quality Control program (QA/QC) is to ensure consistency and reliability in the testing of backflow assemblies that protect the public water supply. Although not fail-proof, the QA/QC program will help prevent and/or reduce some of the problems encountered with **backflow assembly tester** performance. The QA/QC program will help identify and eliminate the submission of incomplete or false test reports, use of incorrect test procedures, and testing errors made due to improperly calibrated equipment.

The RDN will ensure that only a BCWWA-certified backflow assembly tester tests all backflow assemblies that protect the RDN's Water Systems from contamination. The RDN will employ one or more BCWWA-certified backflow assembly testers, and ensure than the backflow assembly testers maintain their certifications in good standing. Further, the RDN will ensure that all testing equipment is of the appropriate type and is verified for accuracy and calibrated at least once annually.

The RDN's backflow assembly tester(s) will review within 30 days of receipt, the inspection/test report forms submitted by any third party backflow assembly tester, and follow up on any reports that are found to be deficient in any way.



20.0 Safety

The Regional District of Nanaimo will provide programs to help ensure the safety of personnel involved in the Cross Connection Control Program (i.e., WorkSafe BC).

21.0 Standards & Guidelines

British Columbia Building Code

All new construction and renovations undertaken in the Regional District of Nanaimo are subject to the requirements of B.C. Plumbing Code, Division B, Part 2, 2.6.2 "Protection from Contamination". The Code requires backflow prevention and in Section 2.6.2.1(3) states that "Backflow preventers shall be selected and installed in conformance with the Canadian CSA B64.10 Manual for the Selection and Installation of Backflow Prevention Devices".

CSA B64.10/B64.10.1 - Manual for the Selection and Installation of Backflow Prevention Devices

This standard shall be used for the selection and installation of backflow preventers and methodology of backflow prevention. This standard may not address every application of backflow protection, or may be subjective or require further clarification. Therefore, the Regional District of Nanaimo may, from time to time, issue a bulletin as an extension of the Cross Connection Control Program. In case of a discrepancy between the accepted CSA standard and a bulletin of the Regional District of Nanaimo Cross Connection Control Program, the criterion of the bulletin will prevail.

CSA B64 Series - Backflow Preventers and Vacuum Breakers

This standard is used in conjunction with other B64 series standards and ultimately determines the requirements that backflow devices must meet in order to be used in plumbing systems. All backflow preventers installed in the Regional District of Nanaimo shall be approved in accordance with CSA standard B64 Series. The backflow preventers must be approved for the application for which they are being used.

CSA B128.1 - Design and Installation of Non-Potable Water Systems/Maintenance & Field Testing of Non-Potable Water Systems

This standard specifies the minimum plumbing requirements for non-potable water systems and provides guidelines for identification of non-potable system piping and outlets, and procedures for cross connection testing of the non-potable water systems.

CSA B214 Installation Code for Hydronic Heating Systems (Radiator-based or in-floor piping)

This Code establishes the minimum required provisions regarding the installation of hydronic heating systems.

American Water Works Association (AWWA) Cross Connection Control Manual and the British Columbia Water & Waste Association (BCWWA)



These associations are the accepted agencies for Certification of the Procedures & Practices for testing backflow preventers and Cross Connection Control inspection of facilities.

University of Southern California Foundation for Cross Connection Control and Hydraulic Research (USCFCCCHR)

The USCFCCCHR is the authorized approval agency that provides a list of approved Backflow Prevention Assemblies by manufacturer and model number as tested and approved by the USCFCCCHR.

Chemigation Guidelines for British Columbia - a British Columbia Ministry of Agriculture and Food (BCMAF) publication

The Chemigation Guidelines for British Columbia provide information on backflow prevention requirements for all types of water supplies and additional safety information pertaining to chemigation. Producers obtaining water from streams or other natural sources are not under the authority of a water supplier. The chemigation manual should be used by agricultural producers as a chemigation standard in instances where a higher authority has not established a standard.

22.0 Contact Information

The Regional District of Nanaimo Cross Connection Control Manager can be contacted as follows:

Agency: Regional District of Nanaimo
Attention: Manager of Water Services

Address: 6300 Hammond Bay Rd, Nanaimo BC, V9T 6N2

Phone: 1-877-607-4111 or (250) 390-6560

Fax: (250) 390-1542

Email: rcu@rdn.bc.ca Web: www.rdn.bc.ca

23.0 Program Amendments

Date of Change	Update or Amendment
February 25, 2019	First Draft to go with Bylaw Introduction in 2019
June 10, 2019	Update issued when CCC Bylaw adopted by the Board
December 16, 2019	Spacing errors corrected for upload to web



Schedule 'A' Glossary of Terms

Air break- the unobstructed vertical distance through air between the lowest point of an indirect drainage system (i.e., the vent port of the backflow preventer) and the flood level rim of the fixture or device into which it discharges.

Air gap- the unobstructed vertical distance through air between the lowest point of the water supply outlet and the flood level rim of the fixture or device into which the outlet discharges. The recommended vertical air gap shall be at least twice the inside diameter of the water supply inlet but never less than 25mm. Obstructions in close proximity to the air gap such as a wall, may restrict air flow into the outlet pipe rendering the air gap ineffective and thus becoming susceptible to back siphonage. When airflow is restricted, the air gap must be increased to a minimum of three times the inside diameter of the discharge end of the water supply inlet.

Air gaps less than 25mm should be approved only as a permanent part of a listed device that has been tested under back siphonage conditions with a vacuum of a minimum of 62.5 cm of mercury. Side walls, ribs or similar obstructions may affect the air gap if within a distance of three times the diameter of the effective opening for a single wall, or four times the effective opening for intersecting walls. If the supply line is cut at an angle, measure the gap distance from the bottom of the angle. Hoses are not allowed.

A manufactured air gap fitting(s), such as one that has holes cut into the sides of a tube, may not meet the dimension criteria of an "approved" air gap and, thus, may not perform as required to break a vacuum. Any air gap fitting used in place of an approved backflow assembly should meet the dimension criteria stated above. A properly maintained approved air gap is the best means available for protection against backflow. However, an air gap is not always practical, and it is vulnerable to bypass arrangements that nullify its effectiveness. In addition, use of an air gap often exposes the water to dust, debris, airborne bacteria, and other contaminants and pollutants.

Approved Backflow Prevention Assembly- a backflow preventer designed to be tested and repaired while in service and to meet the design and installation criteria requirements of CSA Standard B64.

Approved Backflow Prevention Device- a non-testable Approved Backflow Preventer that meets the design and installation criteria requirements of CSA Standard B64.

Atmospheric Vacuum Breaker (AVB)- Vacuum breaker designed to be under pressure only when water is being drawn from the system and for short, intermittent periods of time.

Auxiliary / Alternate Water Supply- any water supply on the premises, or available to the premises, other than the purveyor's approved public water supply that is not approved for human consumption by the health authority or is otherwise not acceptable to the purveyor. The auxiliary water may include water from any natural source, such as a well, pond, lake, spring, river, stream or another purveyor's water supply; auxiliary water may also include used waters or industrial fluids.



Backflow- means the undesirable reversal of flow of water or other liquids, gases or solids through a cross connection into the public water supply or the consumer's plumbing system.

Backflow Assembly Tester- means a person holding a valid certificate from the American Waterworks Association, British Columbia section (BCWWA) for testing backflow prevention assemblies.

Backflow Assembly Test Report means a record, in the form provided or approved for use by the RDN Manager of Water Services, which contains all pertinent information and test data resulting from a Backflow assembly test conducted by a certified Backflow Assembly Tester in accordance with the provisions of this Bylaw.

Backflow Preventer means an apparatus that is installed in a water system so as to prevent Backflow of Contaminants into the RDN Water System, and includes Backflow Prevention Assemblies and Backflow Prevention Devices.

Backflow Prevention Assembly means a CSA Standard B64-approved apparatus that is installed in a water system to stop the flow of water or other liquids, gases or solids from flowing in the reverse direction back into the Consumer's plumbing system or the RDN Water System. A Backflow Prevention Assembly is equipped with an inlet and outlet shut-off valve, and test cocks that allow it to be tested and repaired while in service.

Backflow Prevention Device means a non-testable apparatus that is installed in a water system to stop the flow of water or other liquids, gases or solids from flowing in the reverse direction. A Backflow Prevention Device is not equipped with an inlet and outlet shut-off valve, or test cocks that would allow its functionality to be tested or determined.

Back pressure- a pressure (caused by a pump, elevated tank or piping, boiler, or other means) on the consumer's side of the service connection that is greater than the pressure provided by the public water system and which may cause backflow.

Back siphonage- means backflow due to a reduction in pressure in the public water system and/or the consumer's water system.

Building Inspector- a person or persons appointed from time to time by the Regional District of Nanaimo Board as a building inspector.

Bylaw Enforcement Officer- a person or persons appointed from time to time by the Regional District of Nanaimo Board as a bylaw enforcement officer, or any other person appointed as such by the Board for the purposes of administering, enforcing or carrying out the Cross Connection Control Regulation Bylaw.

Commensurate- means suitable in amount or quality compared to something else; equivalent; corresponding; comparable; or proportionate.

Consumer/Customer- any person who is the owner or occupier, or agent for the owner or occupier, of any Premises or equipment to whom water is supplied by an RDN Water System.



Consumer Supply Line means the pipe that conveys water from an RDN Water System to the Consumer's building or property being served.

Contaminant- any physical, chemical, biological or radiological substance or matter in water which may render the water non-potable, according to the *Drinking Water Protection Act, Chapter 9*.

Critical level (CL)- the level of submergence at which a vacuum breaker ceases to prevent back siphonage.

Cross Connection- means any existing or potential physical connection whereby an RDN Water System is connected, directly or indirectly, with any Non-Potable or unapproved Private Water System, or any sewer, drain, conduit, well, pool, storage reservoir, pond, boiler, plumbing fixture, or any other device which contains or may contain contaminated water, liquid, gases, sewage, or other waste, of unknown or unsafe quality, capable of introducing Contaminants into the public water supply as a result of Backflow. Bypass arrangements, jumper connections, removable sections, swivel or changeover devices, or any other temporary or permanent connecting arrangements through which backflow may occur are considered to be Cross Connections.

Cross Connection Control Manager- shall be the RDN's Manager of Water Services, or designated alternate.

Cross Connection Control Program (CCCP)- means the administrative and technical procedures the water purveyor (the Regional District of Nanaimo) implements to protect the public water system from contamination via cross connections.

CSA and CAN/CSA- the Canadian Standards Association.

Double Check Valve Assembly (DCVA)- a backflow preventer consisting of two force-loaded, independently acting check valves, including tightly closing resilient-seated shut-off valves located at each end of the assembly and fitted with properly located resilient-seated test cocks. This device is designed for use under continuous pressure.

Double Check Valve Assembly for Fire system (DCVAF)- a DCVA that is specifically designed for use only on water supplies to fire sprinkler and standpipe systems.

Dual Check Valve (DuC)- a backflow preventer consisting of two independently acting, force-loaded, soft-seated check valves in series. This device does not have a relief port or test cocks. This device is designed for use under continuous pressure.

Dual Check Valve for Fire system (DuCF)- a DuC that is specifically designed for use on water supplies to residential fire sprinkler systems.

Dual Check Valve with Atmospheric Port (DCAP)- a backflow preventer consisting of two independently acting check valves separated by an intermediate chamber with an atmospheric port. A chamber pressure higher than the supply pressure is required to open the port when there is a positive pressure on the supply side. This device is designed for use under continuous pressure.



Dual Check Valve with Atmospheric Port for Carbonators (DCAPC)- a carbonated beverage backflow preventer consisting of two independently acting check valves biased to normally closed positions and separated by an intermediate chamber with an atmospheric port. A chamber pressure higher than supply pressure is required to open the port when there is a positive pressure on the supply side. An integral strainer at the inlet ensures that debris does not foul the device's check valves or enter the carbonator unit. This device is designed for use under continuous pressure.

Dual Check Valve with Intermediate Vent (DuCV)- a backflow preventer consisting of two independently acting check valves biased to a normally closed position. Between the check valves there is a relief port that is biased to a normally open position. This device is designed for use under continuous pressure.

Fire Protection System (class types)- refer to CSA B64.10-01.

- Residential "full flow through" type fire sprinkler system- an assembly of pipe and fittings that conveys water from the water service pipe to the fire sprinkler outlets and that is fully integrated into the potable water system to ensure a regular flow of water through all parts of both systems.
- Residential "partial flow through" system- an assembly of pipe and fittings that conveys water from
 the water service pipe to the fire sprinkler outlets and in which flow (during non-functional periods of
 the fire system) only occurs through the main header to a water closet located at the farthest point of
 the system.
- Class 1 system- an assembly of pipe and fittings that conveys water from the water service pipe to the fire sprinkler outlets and that has direct connections only from public water main, has no pumps, tanks, or reservoirs, and has all sprinkler drains discharging to atmosphere, dry wells, or other safe outlets.
- Class 2 system- an assembly of pipe and fittings that conveys water from the water service pipe to the fire sprinkler outlets, that is the same as a Class 1 system but also includes a booster pump in the connection from the street mains.
- Class 3 system- an assembly of pipe and fittings that conveys water from the water service pipe to the fire sprinkler outlets and that has direct connections from the public water supply mains, elevated storage tanks (either open or closed), fire pumps taking suction from aboveground covered reservoirs or tanks, and pressure tanks. In Class 3 systems, storage facilities are only filled from, or connected to, the public water supply, and the water in the tanks is maintained in a portable condition. Class 3 systems resemble Class 1 systems in all other respects.
- Class 4 system- an assembly of pipe and fittings that conveys water from the water service pipe to the fire sprinkler outlets and that has direct connections from public supply mains (similar to Class 1 and Class 2 systems) and an auxiliary water supply dedicated to fire department use and available to the premises, such as an auxiliary supply located within 518 m (1700 ft) of the pumper connection.
- Class 5 system- an assembly of pipe and fittings that conveys water from the water service pipe to the
 fire sprinkler outlets and that has direct connections from public supply mains and that is also
 interconnected with an auxiliary water supply.



• Class 6 system- an assembly of pipe and fittings that conveys water from the water service pipe to the fire sprinkler outlets and that is a combined industrial and fire protection system and is supplied from the public water supply mains only, with or without gravity storage or pump suction tanks.

Fire Service Pipe- a pipe that conveys water from a public water main or private water source to the inside of a building for the purpose of supplying a fire sprinkler or standpipe system.

Fixture Isolation- protection provided at the connection to a fixture or appliance.

Grey/Gray Water / Greywater- untreated household wastewater that has not come in contact with toilet waste, and includes wastewater from bathtubs, showers, clothes washers and laundry tubs, but excludes toilets, urinals, bidets, kitchen sinks, and dishwashers.

Hazard- refers to one of three levels of hazard: minor, moderate, and high (or severe) as determined by the Cross Connection Control Manager.

High health cross connection hazard- means a cross connection which could impair the quality of potable water and create an actual public health hazard through poisoning or spread of disease by sewage, industrial liquids or waste.

Horizontal- a plane perpendicular to a plumb line (±2 deg.).

Hydrant- a device equipped with special threaded connections owned and maintained by the Regional District within a highway, right of way, easement or on Regional District property, connected to a water main to supply water for fire protection purposes.

Individual protection- protection provided at the connection to a fixture or appliance.

Inspect- an on-site review of the water use, facilities, meters, piping, equipment, operating conditions and maintenance records for the purpose of evaluating for conformity with the terms and conditions of the Cross Connection Control Program.

Low health cross connection hazard- means a cross connection that could cause an impairment of the quality of potable water to a degree that does not create a hazard to the public health, but does adversely and unreasonably affect the aesthetic qualities of such potable water for domestic use.

Manager of Water Services- the person appointed to the position of Manager of Water Services of the RDN Regional and Community Utilities Department, and shall include any person designated by the Board to act on behalf of the Manager of Water Services.

Potable Water- water that is fit for human consumption as defined in the *Drinking Water Protection Act*.

Potable water system materials- any material acceptable under the British Columbia Building Code for use in a water distribution system.



Potable water system materials, not acceptable- any material that is not acceptable under the British Columbia Building Code for use in a water distribution system.

Premise isolation- a method of protecting the RDN Water System by installation of approved air gaps or approved backflow prevention assemblies at or near the service connection or alternative location acceptable to the RDN, to **isolate** the Consumer's water system from the RDN's Water System. This type of protection does not provide protection to personnel on the premises.

Premise/Premises- means any real property and all buildings and improvements thereon.

Private Water System- any water system available on or to a premise originating from a source or system not owned or operated by the Regional District of Nanaimo.

Rainwater- precipitation water collected from rooftops or other manmade above-ground collection surfaces, that is typically stored in a cistern.

RDN Water System- any water system owned, operated and maintained by the Regional District of Nanaimo or its authorized agent, and any and all parts thereof.

Reclaimed Water- means effluent derived in any part from sewage from a wastewater treatment system that has been adequately and reliably treated, so that as a result of that treatment, it is suitable for beneficial use or a controlled use that would not otherwise occur, and it is no longer considered wastewater.

Reduced pressure principal assembly (RP) or (RPBA)- a backflow preventer consisting of a mechanically independent acting, hydraulically dependent relief valve located in a chamber between two independently operating, force-loaded check valves, the intermediate chamber pressure always being lower than the supply pressure when there is a positive pressure on the supply side. The unit includes properly located resilient-seated test cocks and tightly closing resilient-seated shut-off valves at each end of the assembly. This device is designed for use under continuous pressure.

Reduced pressure principal assembly for fire system (RPF)- an RP that is specifically designed for use only on water supplies to fire sprinkler and standpipe systems.

Residential- means all single-family dwellings, duplexes, townhouses, condos, row housing and apartments intended for occupancy as defined in the British Columbia Building Code.

Service Connection Point- the point of physical connection between the RDN Water System and the Consumer. Typically the Service Connection Point is at the downstream side of the water meter and /or is located at or near the Consumer's property line.

Survey- means a complete formal review of the potable water systems(s) located within a building or property to determine the presence of any existing backflow preventers, their installation & conditions and/or the existence of cross connections that could pose a health risk to occupants or the RDN Water System.

Used Water- any Potable Water which is no longer in the RDN Water System, including Potable Water that has moved downstream or past the Service Connection valve and/or the property line to the Premises. This includes water used for heating or cooling purposes and water that has the potential to flow back into the distribution system from the consumer.



USCFCCCHR- University of Southern California Foundation for Cross Connection Control and Hydraulic Research; an agency relied upon for industry standard Cross Connection Control testing and guidance.

Vacuum Breaker- a device that will prevent backflow when pressure in the system upstream of the device falls below atmospheric pressure. Air is only admitted downstream of the device.

Vacuum Breaker, Atmospheric type (AVB)- Vacuum breaker designed to be under pressure only when water is being drawn from the system and for short, intermittent periods of time.

Vacuum Breaker, Hose Connection Dual Check type (HCDVB)- a vacuum breaker consisting of two independently acting check valves, forced-loaded or biased to a normally closed position. Located between the checks is a means of venting to atmosphere that is forced-loaded or biased to a normally open position. If there is no flow through the device, the check valves are closed and the vent is open. The device is designed to be under pressure only when water is being drawn from the system and for short intermittent periods of time. The device incorporates a means to manually test the operation of the downstream check valve. The device is designed to be used where the backpressure generated by an elevated hose is 3 m (10 ft) of head pressure or less.

Vacuum breaker, Hose Connection type (HCVB)- a vacuum breaker consisting of a single force-loaded check valve biased to a normally closed position. Downstream of the check valve is a means of automatically venting to atmosphere; the device is forced-loaded or biased to a normally open position. If there is no flow through the device, the check valve is closed and the vent is open. The device is designed to be under pressure only when water is being drawn from the system and for short, intermittent periods of time.

Vacuum Breaker, Laboratory Faucet type (LFVB)- a vacuum breaker consisting of two independently acting check valves force-loaded or biased to normally closed position. Between the check valves there is a relief port that is force-loaded or biased to a normally open position. When the laboratory faucet is off, the check valves are closed and the port is open; when the faucet is on, the check valves are open and the port is closed.

Vacuum Breaker, Pressure type (PVB)- an assembly containing an independently acing check valve forced-loaded or biased to a normally closed position, and an independently operating air inlet valve forced-loaded or biased to a normally open position and located on the discharge side of the check valve. The assembly is equipped with properly located resilient-seated test cocks and tightly closing resilient-seated shut-off valves located at each end of the assembly. The device is designed for use under continuous pressure.

Vault- a room or space that is constructed to house a backflow preventer and that is capable of being entered by a person.

Vertical- a plane parallel to a plumb line (±2deg.).

Water Purveyor- the owner or operator of a drinking water system.

Water Distribution System- a system for the collection, transmission, treatment, storage and distribution of water from source to consumers.

Water Supplier- referred to as the Regional District of Nanaimo in this document.



Water Service Pipe- a pipe that conveys water from a public water main or private water source to the inside of the building.

Zone or Area Protection- Protection provided for sections of a piping system within a building of facility with no potable connections downstream of a backflow preventer.



Schedule 'B' Cross Connection Control Program Decision Summary Table

	Decision Item Decision			
1.	Type of Program			
	a) Premise isolation only			
	b) Premise isolation and in-premises protection (combination program)	✓		
2.	Extent of Coordination with Building/Plumbing Officials			
	a) Information exchange			
	b) Interaction	✓		
	c) Joint program			
3.	Relationship with Customer			
	a) Signed service agreement or contract	✓		
	b) Bylaw resolution; implied service agreement	✓		
4.	Enforcement of Corrective Action			
	a) Rely upon shut-off of water service			
	b) Rely upon purveyor-installed premise isolation	✓		
5.	Assessment and Re-assessment of Hazard			
	a) By purveyor's staff or equivalent	✓		
	b) By backflow assembly tester employed by customer, reviewed by RDN			
6.	Location and Ownership of Premise Isolation Assembly			
	a) On purveyor's service line	✓		
	b) On customer's service line			
7.	Backflow Assembly Tester			
	a) Ensure purveyor's staff member(s) is certified	✓		
	b) Inter-agency agreement or use of other agency's tester			
	c) Contract with a 3 rd party backflow assembly tester			
8.	Testing of Assemblies			
	a) Purveyor's equipment tested by purveyor's own staff	✓		
	b) Customer's equipment tested by customer-chosen contractor	✓		
9.	Cost Recovery			
	a) Borne by all customers (general water rates)	✓		
	b) Assessed to a specific class (i.e. commercial water meters)			
	c) Each customer directly bears cost (as directed by Mgr of Water Services)	✓		

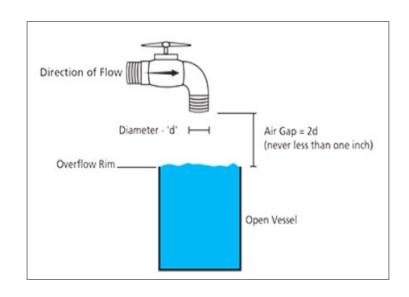


Schedule 'C' Sample Installation Diagrams

Air Gap

A safe air gap must be twice the diameter of the inlet pipe, and never less than one inch in diameter. Figure 1 shows a safe air gap arrangement for makeup tanks, sinks and drain lines.

Figure 1



Booster Pump

Backpressure can result from an increase in the downstream pressure created by pumps, boilers, and elevation differences. An air gap is used in Figure 2 below to prevent backflow into the municipal water supply.

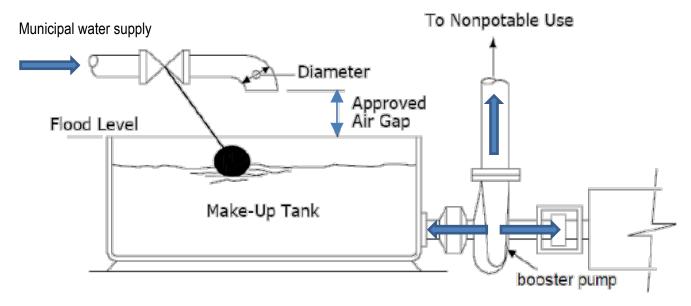


Figure 2



Atmospheric Vacuum Breaker (AVB)

An AVB allows air to enter the water supply line when the pressure in the public water system is reduced to zero or below. During normal flow, the valve is open and a float within the device is pushed up which seals the air inlet. When a backsiphonage condition develops, as shown in Figure 3 below, the float drops, closes the valve, and allows air to enter through the air inlet, preventing backflow (backsiphonage).

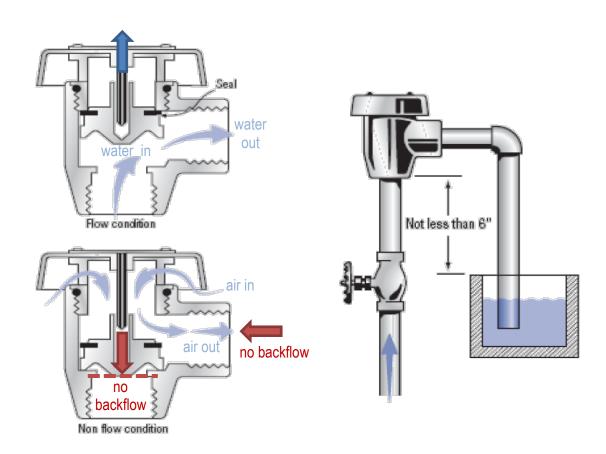


Figure 3

Pressure Vacuum Breaker (PVB)

A PVB is similar to an AVB, in that it prevents backsiphonage by allowing air in through a vent. The PVB consists of a spring loaded check valve, spring loaded air inlet valve, test cocks and two shutoff valves forming an assembly (see Figures 4 and 5 below). Because of the spring loading, a PVB can be installed where it will be under continuous pressure for long periods. PVBs are testable assemblies.

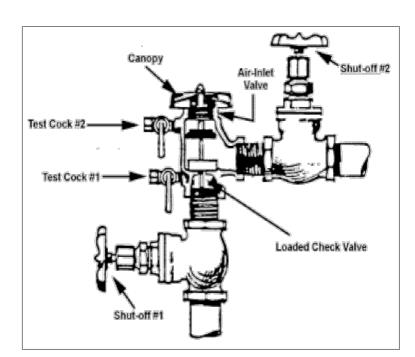
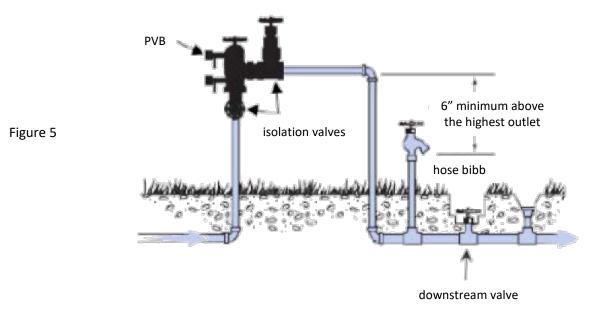


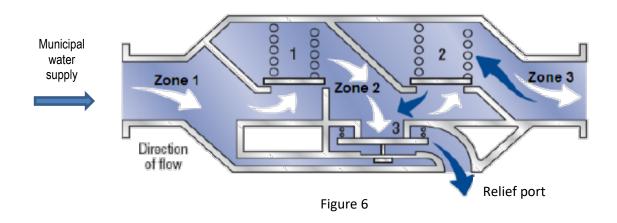
Figure 4





Reduced Pressure Backflow Assembly (RPBA)

A reduced pressure backflow assembly consists of two independently acting, spring loaded check valves with a relief valve placed between the two check valves designed to prevent backflow. The pressure in Zone 1 is the same as the public water supply. If the water pressure in Zone 2 becomes greater than the pressure in Zone 1, the second check valve will stop the reversal of flow. However, if the second check valve fails to seat properly, water will be discharged through the relief port, thereby protecting the municipal supply from backflow (see Figures 6 and 7 below).



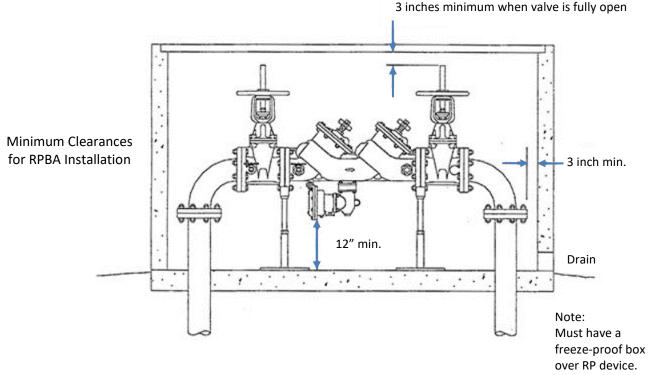


Figure 7
RBPA above ground installation



Dual Check Valve Assembly (DCVA)

A DCVAs provides some degree of protection against backflow, but does not have the same "failsafe" relief port as an RPBA. Therefore, a DCVA may only be used to protect the public supply from aesthetic or non-health hazards. A DCVA consists of two loaded check valves, test cocks, and shutoff valves forming an assembly (see Figures 8 and 9 below). A DCVA may be used under continuous pressure and protect against backflow from both backpressure and backsiphonage. A DCVA is a testable assembly.



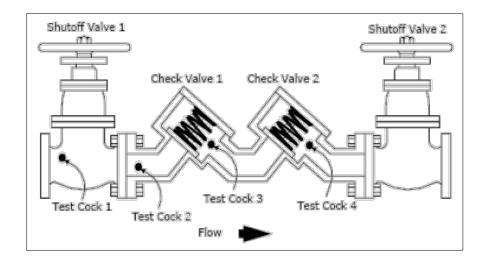
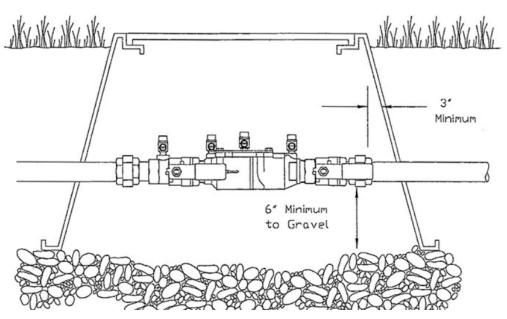


Figure 9

A small DCVA commonly used in sprinkler systems. (Below ground installation)



Minimum 12 inches of base gravel



Double Check Detector Check

A Double Check Detector Check is a variation of a DCVA that is commonly used to protect the water supply from untreated fire protection systems. The Detector Check has a bypass line which also has a DCVA and a water meter which measures very low fire line flows (Figure 10 below).

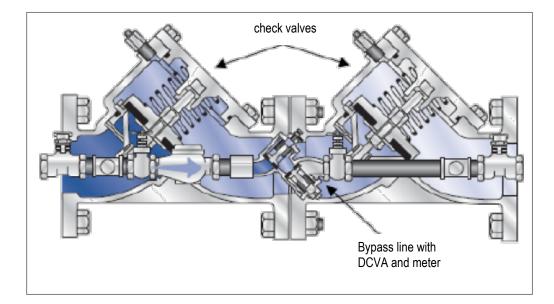


Figure 10

Double Check Valve with Intermediate Vent

A Double Check Valve with Intermediate vent is used on ¼ inch, ½ inch or ¾ inch pipes to protect against both backpressure and backsiphonage in low hazard situations. A vent located between the two check valves provides extra backflow protection (see Figure 11 below). This type of device can be used on carbonated beverage machines to prevent the backflow of carbon dioxide gas and carbonated water into the public water supply.

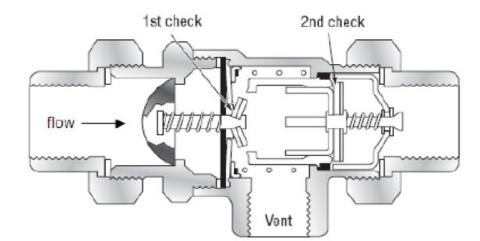


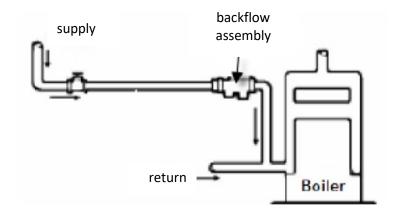
Figure 11



Boiler Installation (risk of thermal expansion)

In many buildings, potable water is used as a source of water for boilers. A boiler is a closed vessel in which water or other fluids is heated under pressure. The fluid is then circulated out of the boiler for use in various processes or heating applications. The pressures within boilers can become much greater than the system pressure at the point of connection. In many cases, chemicals of varying toxicity are added to boilers to reduce corrosion or scaling. Since boilers can cause backflow by backpressure, it is necessary to protect the water supply by installing a backflow assembly on the makeup or feed line to the boiler as noted in Figure 12 below.





Schedule 'D' Exceptions to Premise Isolation

Complete an entry for each location where a premise-isolation backflow assembly exception was granted for a high-hazard use premises.

Address / Use	Date / Reason / Description
Example: 1234 Something Rd Dental Clinic	Feb 6, 2019 - RDN staff visually verified that an AVB was installed on every faucet at the dental clinic. It was determined that a dual check valve at the curb is sufficient for premise isolation at this time. To be reviewed again in Feb 2020.



Other types of high-hazard premises where exceptions may be considered:

- A medical/health facility that doesn't have a laboratory or blood/urine collection activities;
- A "bottling plant" without bottling processes, i.e. warehousing only;
- A laundry or dry cleaning business with no cleaning processes on the premises, i.e. drop off only;
- A marina/dock facility for small boat moorage (where no water or sewage facilities are on board);



Schedule 'E' Sample Forms and Letters





Letter Requesting Customer To Complete Water Use Questionnaire

Date: Residential

Dear Sir/Madame:

Canadian Drinking Water regulations require that water system purveyors (suppliers) develop and implement cross connection control programs. A cross connection control program helps protect public health by preventing contamination of the drinking water supply from potential backflow occurrences.

The provincial building and plumbing codes generally provide adequate protection to the public water system from cross connections. However, a few customers pose a special concern because of the complexity of their plumbing system and/or special uses of water on the property (i.e. decorative ponds, irrigation systems, fire protection systems, etc.). These customer's water connections are considered an increased health risk to other water system customers because of the potential for backflow to occur.

As part of the Regional District's efforts to keep the drinking water safe, a cross connection hazard survey is being conducted of all water system customers. Depending on the survey results customers may need to have a backflow preventer installed on their service line or provide alternate protection to prevent contamination of the public water system. This is to prevent the spread of contaminants into the RDN Water System should a backflow or backpressure or back-siphonage incident occur. All backflow preventers must meet the installation requirements of the Canadian Standards Association (CSA) B64.10 (or most current edition) and be approved by the Regional District of Nanaimo.

Please complete the attached questionnaire by checking the applicable boxes and returning the completed questionnaire by (date) to the address shown below.

We will review each completed questionnaire and determine whether further action is required. Thank you in advance for your cooperation in helping us protect the public drinking water supply. If you have any questions, please contact me at ph. 250-390-6560.

Yours truly,

Manager of Water Services

enc: Water Use Questionnaire

6300 Hammond Bay Road, Nanaimo, BC V9T 6N2

www.rdn.bc.ca





Water Use Questionnaire Residential Customers

Name:		Ph								
Site Ad	ldress:	Cell:								
Mailin	g Address	: Email:								
Please	indicate v	whether the special plumbing or activities listed below apply to your premises:								
Yes	es No Plumbing or Activity Present on Customer's Premises									
		Underground sprinkler system								
		Booster pump								
		Water softener (or other water treatment system)								
		Residential fire sprinkler system								
		Solar heating system								
		Heat exchanger (heated floors, geothermal heat exchange)								
		Private well (or other supply, whether it's connected to the in-home plumbing or not)								
		Sewage pumping system or grey water system								
		Boat moorage with water supply								
		Hobby farm								
		Animal watering troughs								
		Swimming pool or spa (hot tub)								
		Greenhouse								
		Decorative or fish pond								
		Photo lab or dark room								
		Home-based business (i.e., hair/beauty salon, dog grooming, machine shop)								
		Sani-dump								
		Rainwater collection cistern								
	o Custome ation at a l	er: This form is used for preliminary assessment only. The water purveyor may require more ater date.								
This fo	rm was co	ompleted by (print name): Date:								
Please	return co	ompleted form by (date) and send to:								
_		rict of Nanaimo, Water Services Dept. Email: rcu@rdn.bc.ca Pax: 250-390-1542								





Letter Requesting Customer To Complete Water Use Questionnaire

Non-Residential

Dear Sir/Madame:

Date:

Canadian Drinking Water regulations require that water system purveyors (suppliers) develop and implement cross connection control programs. A cross connection control program helps protect public health by preventing contamination of the drinking water supply from potential backflow occurrences.

The provincial building and plumbing codes generally provide adequate protection to the public water system from cross connections. However, a few customers pose a special concern because of the greater scope and complexity of their plumbing systems and special uses of water on the premises (i.e. car washes, hotels, laundromats, nurseries, etc.). These customer's connections are considered an increased health risk to other water system customers because of the potential for backflow to occur.

There should never be a negative pressure in the municipal water distribution system. Unfortunately, a combination of events and circumstances (such as a watermain break) may occur, that creates low-pressure or negative pressure conditions. As part of the Regional District's efforts to keep the drinking water safe, a cross connection hazard survey is being conducted of all water system customers.

Depending on the survey results, customers may be required to have a backflow preventer installed on their water line or provide alternate protection. This is to prevent the spread of contaminants into the RDN Water System should a backflow or back-siphonage incident occur. All new and existing backflow preventers must meet the installation requirements of the Canadian Standards Association (CSA) B64.10 (or most current edition) and be approved by the Regional District of Nanaimo.

Please complete the attached questionnaire by checking the applicable boxes and returning the completed questionnaire by ______(date) to the address shown below. We will review each completed questionnaire and determine whether further action is required. Thank you in advance for your cooperation in helping us protect the public drinking water supply. If you have any questions, please contact me at ph. 250-390-6560.

Yours truly,

Manager of Water Services

enc: Water Use Questionnaire

6300 Hammond Bay Road, Nanaimo, BC V9T 6N2

www.rdn.bc.ca





Water Use Questionnaire Non-Residential Customers

Business Name and Contact:	
Description of Business:	
Site Address:	Ph
Mailing Address:	Cell:
	Email:
Is the type of business or premise include	d in the table below? (check all that apply)
Agricultural (farm or dairy)	Metal plating industry
Beverage bottling plant	Mortuary
Car wash	Petroleum processing or storage plant
Chemical plant	Rier or dock
Commercial laundry or dry-cleaners	Site access denied or restricted
Having reclaimed water and potable water provided	Radioactive material processing plant or nuclear reactor
Film processing facility or laboratory	Wastewater lift station or pump station
Food processing plant	Wastewater treatment plant
Høspital, medical center, nursing home, veterinary, medical or dental clinic, or blood plasma centre	Unapproved auxiliary water supply interconnected with the public water supply
Having irrigation system using purveyor's water and adding chemicals, i.e., a golf course	Military Base
Other potential cross	s connection concerns:
Irrigation system	Fire sprinkler systemwith without chemicals or antifreeze
Swimming pool	Other (describe)
Note to Customer: This form is used for preliminary assess at a later date.	ment only. The water purveyor may require more information
This form was completed by (print name):	Date:
Please return completed form by	_ (date) and send to:
Regional District of Nanaimo, Water Services Dept. 6300 Hammond Bay Rd, Nanaimo, BC V9T 6N2	Email: <u>rcu@rdn.bc.ca</u> Fax: 250-390-1542





Letter Requesting Customer To Install a Backflow Prevention Assembly

Date:
Dear Sir/Madame:
Canadian Drinking Water regulations require that water system purveyors (suppliers) develop and implement cross connection control programs. Cross connection control programs help protect public health by preventing contamination of the drinking water supply from potential backflow occurrences. The purpose of this letter is to inform you of a requirement to install a backflow assembly.
The Regional District requires the installation of a backflow prevention assembly, commensurate with the degree of hazard, to isolate your plumbing system (and water use) from the public water supply. Please find attached a copy of the RDN Cross Connection Control Regulation Bylaw No. 1788, 2019.
According to [our records, staff, recent inspection, plumbing permit, photos, complaint, billing records, or business license database], the overall public health hazard posed by your plumbing system is [Moderate, or High]. Based on the current Canadian Standards Association (CSA) B64.10 publication for backflow prevention, a Regional District-approved [type of assembly] is required to be installed on your water service line at the water meter. Please make arrangements to have the assembly installed by [date] or when your plumbing system is modified, whichever comes sooner. Your plumbing professional should oversee the installation of the assembly to ensure compliance with the current standards. We appreciate your cooperation in meeting this requirement. If you have any questions, please contact me at ph. 250-390-6560 Yours truly,
RDN Manager of Water Services
6300 Hammond Bay Road, Nanaimo, BC V9T 6N2 www.rdn.bc.ca





Letter Requesting Customer To Submit a Backflow Test Report

·
Date:
Dear Sir/Madame:
Canadian Drinking Water regulations require that water system purveyors (suppliers) develop and implement cross connection control programs. Cross connection control programs help protect public health by preventing contamination of the drinking water supply from potential backflow occurrences. As part of this program, a backflow prevention assembly has been installed on your water service and/or within your plumbing system to protect the public water supply. Annual testing is required to ensure that the backflow prevention assembly is functioning properly.
The purpose of this letter is to request that you arrange for the annual testing of the type of
backflow assembly] described below:
• [name of backflow assembly] located swimming pool, carbonated soda fountain, etc.]
Please make arrangements to have the assembly inspected and tested by a certified backflow assembly
tester. Test results should be sent to the address below by [date]. A Cross Connection
Control Test Report form is attached for your convenience. The test form must be properly completed and
signed before being returned to the RDN. We will review the completed test report within thirty (30) days and determine if further action is required.
We appreciate your cooperation in meeting this requirement. If you have any questions, please contact me
at ph. 250-390-6560
Yours truly,
RDN Manager of Water Services
enc: RDN Backflow Assembly Test Report Form

6300 Hammond Bay Road, Nanaimo, BC V9T 6N2

www.rdn.bc.ca



Site Address:

Mailing Address:



Registered Owner:

Legal Description:

Sample Water Service Agreement

1.	The	undersigned applicant hereby applies for a water connection to the above-described property.
2.	The	applicant is the owner of the described property, or the authorized agent of the owner.
3.		a condition of the Regional District of Nanaimo(name of) Water Service Area, hereinafter referred to as the Purveyor,
	prov with	riding and continuing service to the above described property, the property owner, by signing this application agrees to comply:
	a)	All provisions of the attached Regional District of Nanaimo Cross Connection Control Regulation Bylaw No. 1788, 2019, including amendments thereto; and
	b)	Other such current (attached) and future rules and regulations that govern the Purveyor's water system.
4.	The	property owner specifically agrees:
	a)	To install and maintain at all times his plumbing system in compliance with the most current edition of the British Columbia Plumbing Code as it pertains to the prevention of potable water system contamination and prevention of pressure surges and thermal expansion in his/her water piping (for thermal expansion, it shall be assumed that a dual check valve is installed by the Purveyor on the water service pipe);
	b) W	/ithin 30 days of the Purveyor's request (or alternate schedule acceptable to the Purveyor):
		i) To install, maintain, test and repair in accordance with the Purveyor's cross connection control standards all premises isolation backflow prevention assemblies required by the Purveyor to be installed to protect the public water system from contamination; and
		ii) To report to the Purveyor the results of all assembly tests and/or repairs to the premises isolation backflow assemblies.
	c)	As a condition of the Purveyor waiving the requirement for premise isolation by a reduced pressure backflow assembly on the property owner's side of the water meter:
	/	To authorized the Purveyor to make periodic water use surveys of the premises;
	(ii) Within 30 days of the Purveyor's request, to install, test, maintain, and repair in accordance with the Purveyor's cross connection control standards (copy received with this application) all in-premises backflow prevention assemblies that provide equivalent protection for the Purveyor's distribution system;
		To report to the Purveyor within 30 days of obtaining the results of all tests and repairs to the aforementioned backflow prevention assemblies; and
		iv) To-report to the Purveyor any change to the plumbing system.
	d)	Not to make a claim against the Purveyor or its agents or employees for damages and/or loss or production, sales or service, in case of water pressure variations, or the disruption of the water supply for water system repair, routine maintenance, power outages, and other conditions normally expected in the operation of a water system.
	e)	To pay his/her water bill within 30 days from the date of billing.
term and	inate cond	days of the Purveyor mailing a written notice to the property owner of his/her breach of this agreement, the Purveyor may a water service. In the event legal action is required and commenced between the parties to this agreement to enforce the terms litions herein, the substantially prevailing party shall be entitled to reimbursement of all its costs and expenses including but not reasonable attorney's fees as determined by the Court.
Ann	lican	s Signature Date
		ents received (customer to initial):
		RDN Water Regulation Bylaw No. 1654
		RDN Water Rates & Fees Bylaw No. 1655
		RDN Cross Connection Control Regulation Bylaw No. 1788



						50-954-0288	Shut off	Valves 2		☐ Closed tight				□Repair Kit	Shut off	Valves 2	☐ Leaked ☐	-		
			3 01 11	□Irrigation	ber:	Fax Number: 250-954-0288	PVB/SRVAF Assembly	Check Valve	□ Leaked	☐ Closed tight psi	/MM/DD):	test results.	□Shut off Valve	□Poppet	□ PVB/SRVAF Assembly	Check Valve	☐ Leaked ☐Closed tight	isd	YY/MM/DD):	
port	Phone number:	Phone number:	Install Date 2018 01 11	omestic □Fire [uage Serial Num		□ PVB/SRN	Air inlet Valve	☐ Failed to	open Opened	Test Date (YYYY/MM/DD):	e repairs and ret		□O-rings	□ PVB/SRN	Air inlet Valve	EFailed to open	Dopened 🗅	Retest Date (YYYY/MM/DD):	
Cross Connection Control Test Report			Size:50mm	Installed on: □Domestic □Fire □Irrigation	Diff. Pressure Guage Serial Number:	250-248-4914	DCVA, DCVAF, SCVAF	Check Valve 2	□ Leaked	Closed tight	Drailed	If the device fails the initial test for any reason, complete the sections below, noting the repairs and retest results.	□Air Inlet Valve	□Seat □Guide	□ DCVA, DCVAF, SCVAE	Check Valve	☐ Leaked >☐Closed tight	jsd	□Failed) (dp):
tion Contr	Contact:	lle BC V9P 2N1				Phone Number: 250-248-4914	□ DCVA, DC	Check Valve	□ Leaked	Closed tight	□ Passed	te the sections b	□ Check Valve # 2	□ Diaphragm □S	□ DCVA, DC	Check Valve	☐ Leaked ☐ Leaked	psi	☐ Passed	Date (YYYY/MM/bD):
ss Connec		Gull Way Parksvi		device	Number	2N1			Apsi	B psi	Test Result	reason, comple		□Spring □D				bsi	Test Result	
Cro		#8-1065 Herring	Make/Model: /	□Premises isolating device □Internal Device	Tester's AWWA Number	Postal Code: V9P 2N1	Check Valve	☐Leaked ☐Closed tight	flow)	e (≥2psi) A-B=C	psi	nitial test for any	☐ Check Valve #1	Disc	Check Valve	☐Leaked ☐Closed tight	Si)	A-B=C	psi	
		Owner Address: #8-1065 Herring Gull Way Parksville BC		Installed on: □P			Check Valve	□Leaked □Closed tight	t check valve (no	oint of relief valv	of test	device fails the in	☐ Relief Valve	□Cleaned; replaced	Check Valve	☐Leaked ☐Closed tight	t check valve (no oint of relief valv		of test	
REGIONAL DISTRICT OF NANAIMO	ice:					Business Address: #8-1065 Herring Gull Way	☐ RP/RPF Assembly	☐ Relief valve failed to open	Pressure diff across 1st check valve (no flow)	□Opened, opening point of relief valve (≥2psi) Buffer (≥3 psi)	Static inlet line pressure at time of test	If the	Check applicable valve(s) □ R	Check applicable repair □C	☐ RP/RPF Assembly	☐ Relief valve failed to open	Pressure diff across 1st check valve (no flow) □Opened, opening point of relief valve (≥2psi)	Buffer (≥3 psi)	Static inlet line pressure at time of test	ure:
REGIONAL DISTRICT OF NANAMA	Address of Device:	Owner: RDN Water Services	Serial Number:	Replaces Serial Number:	Tester's Name:	usiness Addre	□ AGG	T (2x dia)	Outlet dia.	T in AG Size	Static inlet	ш	P Check app	Check app	□ AGG	R (2x dia)	Outlet dia.	ui in	Static inlet	ester's Signature:



BACKFLOW PREVENTER INSPECTION TAG





WATER SERVICES DEPARTMENT FIRE HYDRANT USE PERMIT APPLICATION FORM



APPLICANT'S NAME:										
MAILING ADDRESS:Postal Code										
TELEPHONE: CELL: FAX	: EMAIL:									
This application is for use of the fire hydrant located at Anticipated for the period										
For the following uses:										
Project Description:										
RDN Water Service Area:										
I understand and agree to the following:										
 Application fee is \$50.00 										
 Fire hydrant use fee/deposit in the amount of \$500.00. 										
 The fire hydrant may not be used until this Permit has b 	een issued and the RDN staff ha	ve installed backflow								
prevention devices.										
Fire hydrant use is restricted to only the above-noted us		ne Manager.								
 The Applicant may not leave the hydrant and associated The permit may be revoked by the RDN at any time, who 										
On completion the RDN will inspect and maintain the		\$125 fee any renair								
costs and water consumption fees from the \$500 depos										
SIGNATURE OF APPLICANT:	DATE:									
Personal information collected on this form is collected for the purpose of pro The personal information is collected under the authority of the Local Govern collection, contact the Manager of Water Services at 6300 Hammond Bay Roa business information submitted on this form is not considered to be supplied in	ment Act and RDN bylaws. If you have d in Nanaimo or by phone at 390-6560.	any questions about this Personal information or								
Water Services Department Use	Only Below This Line									
Permit Denied for the following re	easons:									
Date:	Hydrant # Permit #_									
Manager of Water Services										
Meter Reading at Start: (m³) Me	eter Reading at Completion:	(m³)								
Application Fee	(a) \$50.00	_(1198-00)								
Damage Deposit	(b) \$500.00	(14-35-00-00-00)								
Refund equals the Damage Deposit less,										
Less RDN inspection/maintenance fee (\$125)	(c) \$125.00	_(1198-00)								
Less costs for any damages	(d) \$	-								
{1	2% HST)									
Less water consumption at \$2.00/cubic meter										
Consumption m3x \$2.00 =	(e) \$	-								
Amount to refund or invoice (b minus c+d+e)	\$	(1198-00)								
Refund/Invoicing Approved by	Date:									
Manager of Water Services										





Backflow Incident Response Form

Fill out the following information as completely as possible, and forward to the Manager of Water Services within 24 hours of the incident.

Responding Operator:	Date:							
Incident Name/Address:								
CALLER INFORMATION								
Date Call Received:	Time Call Received:							
Caller's Name: Agency: Phone #:	Caller's Address: City: Email:							
INCIDENT DESCRIPTION								
Date of Incident: Type of Business: Backflow Originated From (booster pump, etc.): Cause of backflow (main break, fire flow, etc.):								
DESCRIPTION OF CONTAMINANT								
Contaminant (attach MSDS sheet if available): Colour, odour, bubbles, sediment: Number of persons affected: Illness or physical irritation reported:								
CORRECTIVE ACTIONS TAKEN								
Flushing, cleaning, disinfection:								
Additional backflow prevention required/recommended	l:							
NOTIFICATIONS								
(Customers, Health Authority, RDN Manager, Communications Coord., Media)								
MANAGER FOLLOW-UP								
Extent of Damage: Feedba	ck from Community:							
Costs Involved: Addition	dditional Follow-up Required:							



Schedule 'F'

List of Certified Backflow Assembly Testers

(Current as of June 10, 2019)



This section provides a list of cross connection control members of the BC Water & Waste Association, organized by city. See page 55 for a list organized by last name.



150 Mile House Mohr, Levi

Abbotsford

Burke, Douglas Devries, Ryan Dhaliwal, Jasdeep Foltyn, Tomas Gaudette, Brad Green, Fred Hulan, Burt Kowalenko, Matthew Kuo, Elvin MacMahon, David Martin, Jeffrey Mcculloch, Matthew Mcdonald, Kenneth Mellish, Adam Palfy, Paul Pankratz, Greg Pennington, Steven Pope, Jason Radelet, Trevor Rhode, Brandon Singh, Mandeep Smit, Mitchell Smith, Kevin Sowerby, Andrew Steele, Chad Tieszen, Kyle Wall, Michael Webb, Cody

Agassiz

Witt, Corv

Mckechnie, Grant Payne, Steve

Aldergrove

Harris, James Lunn, James Rance, Stuart Spartz, Garrett

Anmore

Baia. Steve Farley, Dan

Annacis Island

Reimer, Steve

Armstrong

Cowden, Chris Holloway, Ryan Logan, Brett

Barriere

Doherty, Dustin

Black Creek

Grutzmacher, Roger

Burnaby

Barrett, Braden Bathurst, David Booton, Christopher Breadon, Scott Carniel, Michael Carson, Sam Ceglie, Nicholas Charlton, Daniel Cheng, William Chong, Daniel Choo, Pan Clironomos, George Clow, Anthony Cornell Matt Correia, Jason Cox, Kenneth Dadhra, Rakesh Dalian, Merlin Dallyn, Seth De Angelis, Marco Ekman, Tyson Ficetola, Giuseppe Fitzgerald, Alan Forsyth, Dave Golob, Brian Govette, Phillip Hajiyani, Sameer Helleouet, Patrick Hollander, Alexander Huber, Cody lammali, Mustapha Ighani, Ramin Jaroma, Andrzej Johnston, Curtis Lai, Jason Leary, Douglas Leland, Trevor Lemay, Robin Lesperance, Mike Li, Oliver Li, Ya Ping Liang, Randal Hong Mallan, Jay Martinez, Gunar Martinez, Jose Mastin, Brett Mcbride, Jamie Mclaughlin, Paul Mehaidli, Mahmoud Miletich, Jay Nadj, Marko Pasqua, Claudio Peirow, Pedram Pizzolon, Ron Puri, Mohit Micky Quezada, Sebastian Redlac, Scott Roesch, Patrick Ryu, Sangwon Sangha, Michael Scott, Gregory Smith, James Sparkes, John Sproule, John Suda, Hynek Suthern, Nigel

Svorinic, Tony

Takaki, Dennis

Takaki, Thomas

Tamagi, Harold

Thacker, James

Tomic, Tomislav Weber Bert Zanotto, Juliano

Calgary

Buchanan, Michael Hardingham, Sean Havinga, Landyn

Campbell River

Clarkson, Casey Ebert, James Howard, Mark Jones, Donald Mackenzie, Farro Pierce, Cam Travanut, Ed

Canmore

Martens, Steven

Castlegar

Algar, Russell Balyk, Terry Lafayette, Leford McNeal, Regan Rosychuk, Derek

Central Saanich

Evans, Jonathan

Chemainus

Brown, Mike Parker, Jeffrey

Chilliwack

Abernethy, Travis Bjorge, Joseph Brown, Matthew Chapman, Dan Cryderman, Jason Davies, Lance Ferguson, Sheldon Frey, John Kinar, Michael Kreitner, Hans Lindhout, Darrell Nestor, Mitchell Nicholson, Steve Papp, Cory Powers, Joshua Pritchard, Shawn Tataren, Jeffrey Toop, Craig Van Der Torre, Clinton

Clearwater

Griffiths, Robert

Cobble Hill

Robinson, Mark

Coldstream

Bateman, Bryan Blundell, Neil Desnoyer, Clayton Leibel, Paul Plysiuk, Blake Tucker, Christopher Witwicki, Jeff

Collwood

Walker, Sonny

Comox

Barber, Glen Begley, Adam Clark, Daniel Howes, Patrick Mansfield, Steven Okuma, Christian

Coombs

Lacroix, James

Coquitlam Agahi, Jamshid

Agur, Markus Allen, Paul Arif, Rebouar Barker, Scott Boatter, Scott Camarda, Alex Che, Xizhe (Mike) Clark, John Clydesdale, Donald-John Devidi, Steve Elder, Donald Farley, Paul Ghias, Ahmad Gormley, Bob Gross, Wesley Guarascio, Peter Henkelman, Steven Hunter, Nicholas Izadi, Kourosh Jamali Mehr, Maziar Javadi, Ali Reza Johnson, Tyler Jorgenson, Dustin Jung, Brandon Karimi, Sayed-Asadullah Krali, Jason Kum, Andrew Lee, Chris Jinwook Lepper, Steven Liao, Wei Malakpour, Davar Morales, Jonathan Naso, Lucas O'Connor, Keith Park, Tae Sung Pavlis, Joseph Piovesan, Michael Regan, John Rohne, Marc Ulrich, Seth Worden, Dave Zhou, Wen Sheng

Courtenay

Bell, Mike Fisher, Kerby Inverarity, Terry Johnson, Tim Mitchell, Don Murgatroyd, Gavin Rohne, Jamin Szabo, Andrei

Cowichan Bay Crossley, Jason

Cranbrook

Jantz, Scott McCulloch, Dustin

Creston

Huscroft, Traven Mercer, Troy

Crofton

Gerrits, Brent

Cumberland

Beattie, Talon Charette, Nick Hamilton, David

Dawson Creek

Ballantyne Kevin Mcleod, Jan Potratz, Travis

Delta

Avery, Mike Becker, Dan Berg-Iverson, Kevin Buick, Allan Camano, Robert Chen, Chao Czopek, Chris Dahl, Stephen Dettling, Bruno Dunkinson, Gary Dusanj, Lance Duyvestyn, Martin Gill, Aman Gillam, David Gong, Yun Zhang. Harrison, Justin Hollinrake, Doug Hossack, Graeme Joseph, Russel Kenmuir, Graham Kjar, Rick Kundi, Amaniot Leaman, Travis Li. Fa Chun Livingstone, Michael MacKay, Robert Marcoux, Ryan Meyers, Dave Noel, James Parson, Dane Presley, Graham Ratzlaff, Richard Reilly, David Rilling, Byron Robertson, Randall Shepherd, Bryan Sheriff, Scott Sillett, Eric Wang, Yi Edward Wong, Glenn

Duncan

Baker, Steven Favreau, Gilbert Gordon, Todd Hunter, Tom

East Gwillimbury King, Jordan

Bastiaansen, Richard Sherwood, Mark Whitehead, Bill

Fanny Bay Waterfield, Gavin

Fernie Birch, Cole Gillissie, Jamie Stratton, Scott

Fort Nelson Dejong, Harold

Fort St. John Durand Glenn Durnford, Garland Torstr Travis

Garibaldi Highlands Rengert, Scott Schellenberg, Kevin Schnurr, Darren

Schulte, Bart Wike, Chris

Spender, Brad

Genelle

Gibsons Windsor, Dan Gillies Bay

Taylor, Ker Goldbridge

Van Loon: Troy

Golden Robison, Ryan Taylor, Alan

Grand Forks Espenhain, Kenneth Koochin, Danial Romaine, Dave

Grande Prairie Burton, Robert

Hagensborg Leverington, Scott

Heffley Creek Ackles, Kyle Wall, Kevin

Hudson's Hope Anderson, Darren Invermere Smith, Travis

Kaleden Jones, Frederick Weremchuk, Morris

Kamloops Adams, Bill Beesley, Kevin Brown, Shawn Burke, Michael Clark, Jeff Fraser, Mike Garton, Leann Gilbert, Darren Harwood, Todd Hunt, Dean Keith, Ryan Knoll, Derek Koester, Brett Mackay, David Oram, Glen Pellerin, Rene Schiller, Neil Signuin, Spencer Simpson, Paul

Kaslo

Kelly, Paul Kelowna Anderson, Tom Bell, Randy Birnie, Jody Brown, Robert Clark, Richard Dakin, Scott Fabick, Josh Fiehl, Ryan Fitzpatrick, Bryan Foster, Blame Francis, Dave Franke, Todd Gilbert, Richard Godel, Alan Guttridge, Nathan Hamilton, Brad Hicks, Glenn Koch, Grea Koch, Ryan Koga, Steven Mathieson, David Mazu, Jerry Mcmahon, Don Mitchell, Dennis

Navrot, Thane Nijholt, Jay Pyke, Ryan Rasmuson, Craig Reich, Dave Robson, Tracy Rushton, Harold Sauer, Derek Simmons, Darren Sweet, Sean Waffle, Scott Wannop, Andrew Westen, Brad Wikeheiser, Donald Wilson, Drew

Keremeos Holgate, Terry Murphy, James

Kimberley Wartes, Jordan Wright, Bradley

Kitimat Burnett, John Manson, Michael Nunes, Donald Pacheco, Donald Riggs, Clarence Webber, Branden

Kitwanga Walsh Juliet

Ladysmith Cavers, Jake Dube, Baden Kwiatkowski, Tricia Salahub, Adrian

Lake Country Bauer, Clayton Klein, Erich Milat, Sandy Pletz, Kalvin Rideg, Julius

Langley Baker, Kirk Becker, Dallas Braun, Kendra Campbell, Chris Canosa, Fabio Carballo, Christian Cho, Jin Hwan Church, Matthew Connolly, Michael Crowley, Andrew. Cyr, Richard. Desjarlais, Jarrett Doberstein, Jacob Donaldson, Michael Fandrey, John Gaertner, Bryan Gardner, Brad Hayes, Darcy Hobson, Bradley. Hubbs, Andy lensen, Christian Joberg, Michael Johnson, Scott Johnston, Les Kling, Michael Kugler, Alec Kump, Mitchell Lauener, Scott Leupen, Brent Leveque, Matthew Lieuwen, Cliff Lozada, Jonathan Magnowski, Brent McNabb, Matt McRae, Bill McWilliams, Brian Miller, David Miller, Matt Murray, Michael Niemantsverdriet, Joel

Peters, Adam

Piluso, Rick

Pinkerton, Jason Quarte, Jeremy Richardson, Ben Rockson, Cody Sahono Jon Sales, David Shafer, Gerald Simonson, Sean Smith, Ryan Steen, Kyle Taylor, Matt Temke, Byron Temperton, Ross Trepp, Shadd Turner, Robert Van de Leur, Dave Veale, Chris Veikle, Larry Walker, Terry Wiegand, Ryan Wyatt, Samuel

Lillooet Van Vliet, Anthony Willey, John

Lone Butte Silvey, Steven

Lumby Jewitt, Jeremy Marison, Dave

Madeira Park Vassey, Malin

Maple Ridge Antosh, David Bartak, Gabriel Bower, Kyle Bratina, Brian Buchan, Craig Chemer, Brandon Davidson, Paul Davison, Cory De Vaal, Nicholas Dea, Robert Earle, Chris Erasmus, Raymond Faccin, Nicholas Finch, Jason Freeborn, Mathew Galcso, Ernest Hachey, Kevin Hermanus, Roy Hunter, Dale Karpinski, Nick Kelleher, Timothy Majano, Melvin Marshall, Tyler Mcausland, Graham McKinley, Jamie Mutiu, Florin Palfreyman, Brandon Patterson, Dakota Pring, Gary Rowley, Alex Sali, Nicolae Siebert, Micah Stanley-Smith, Jordan Stewart, Robbie Straghan, Colin Tokarev, Dmitry Trulsen, Donald

Van Pelt, Craig

Wadge, Joseph

Marysville Pedersen, Daniel

Masset Bellis, Noel

Merritt Curnow, Dick

Mica Creek Palmer, Dave

Mill Bay Belcourt, Corry Hall, Colin Pooley, Rodenck Thompson, Randolphi

Mission Andel, Devin Dickson, Tim Emerson, Chris Govereau, Joel Laslo, Michael Macleod, Daniel McClenaghan, William Page, Brad Pearson, Jason Pearson, Jason Power, Keith Viskovic, Frank Zarazun, Rio

Mount Currie Pickles, Christian

Nakusp Peterson, James

Nanaimo Acton, Clayton Denslow, Greg Du Manoir, Carl Hardy, Michael Harrison, Les Jeffries, Jordan Maddock, Peter McNeill, Andrew Mohamed, Kirk Moore, Jameson Pendergast, Tyson Ray, Zack Robertson, Craio Rule, Jason Semrok, Dustin Wakely, Christien

Nanoose Bay Campbell, Kevin

Naramata Linton, Stewart

Nelson Colley, Jay Kootnikoff, Michael Pilipishen, Micah

New Westminster Boyes, Tyson Callard, Dear Duncan, Andrew Ellam, Drew Frehlick, Neale Graham, Donald

ikoma, Donald Johnson, Adam Johnson, David Kwak, Michael Lazzer, Paul Lolacher, Adam Macmillan, Aridrew Manuel, Trevor Mazziotti, Michael Moenke, Les Mondor, Chris Shama, Ali Siluvaithas, Mario

North Saanich

Ferrie, Joe Gosse, Daniel Harding, Ben Noullette, Andrew Page, Ryan Pritchard, Justin Rathwell, Dwayne Rooke, Sam Sartori, Dino

North Vancouver

Beaupre, Leon Bradshaw, Jonathan Clark, Daniel Comtois, Ghislan Douglas, Scott Elstone, Thomas Gholamalian, Mohsen Goldstone, Todd Hau, Kam Wing Memari Pour, Hassan Murphy, Tommy O'Connor, David Petrik, Jakub Proctor, Greg Roca, Rochelle Joseph Rogers, Cameron Saeidi Dehaghani, Ebrahim Snider, Owen Snow, Adam Stevens, John Tilley, Cameron Warrick, Mackenzie Zegarski, Franciszek Zhang, Joe

0.

Oliver

Latreille, Matt Poznikoff, Nick Raposo, Jeremy

Osoyoos

Bhatti, Babandeep Hebig, Howard Johnson, Craig

Parksville

Desrosiers, Rob Hale, Brian Lancaster, Brad Pagnotta, Michael Ross, David Silenieks, Barbara Smith, Brian

Peachland

Stickland, Ryan

Pemberton Harwood, Doug Koning, Keegen

Penticton

Barnay, Ian Bennett, Darrell Birch, Korey Bradley, Andrew Cross, Andrew Dunham, Kevin Green, Ashton Harriott, Gregory Hartman, Trent Klemchuk, David Lewis, Jesse Maveety, Lance Palmer, Robert Rorie, David

Pitt Meadows

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Port Alberni

Elliott, Jayson Giri, Amarjeet Harrison, Michael Morran, Kevin Tassie, Brian Tilley, Jason Wiatr, Roman

Port Coquitlam

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Pellizzari, Michael Picklyk, Marshall Repsys, Eric Ross-Smith, Bradley Sarwari, Sattar Sauve, Glenn Schiedel, Brent Van Gaalen, Steve Yorko, Adam Zinkevych, Mykola Zuzolo, Franco

Port McNeill

Sinclair, Scott

Port Moody

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Guang, Ming
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Padula, Jason
Parzentny, Michael
Reid, Robert (John)
Rickerby, Shamus
Rogers, Jared
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Xu, Renmin Raymond

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Bigold, Brent Hallam-Eames, Mathew Hallett, Ryan Letebyre, John

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Blanchett, James Chambers James Chartler, Richard Force, Jason Gallagher, Byron Gallagher, Mike Gorham, Richard Gunther, Justin Hall, Jeffrey Harms-Robinson, Flint Macaulay, Michael Muxlow, Trevor Parker, Levi Reed, Landon Scott, Kendall Seib, Quentin Wallin, Brandon Ward Dean Werrell, Troy Winkel, Jav

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Anderson, Kevin Curry, Johnathan Miller, Brian Nequinto, Ernan Page, Robert Ruperto, Joe

6

Qualicum Beach Smith, Cheryll

Queen Charlotte Melney, Wayne

Quesnel Hough, Bradley

E

Radium Hot Springs Fulton, Matthew

Red Deer

Dudariev, Sergii

Revelstoke

Hermary, Daniel Murray, Jeremiah (Jeremy)

Richmond

Abril, Lester Agema, Richard Ahmad, Zahid Balkanyı, David Bardock, Jason Barstow, Murray Bildstein, Tim Burns, Tony Bustillo, Michael Ciprut, Samuel. Copple, Jeff Dee, Stephen Dogra, Daljit Echavez, Rojun Falkenhagen, Ehrich Fung, Benedict Grewal, Inder Grossi, Philip Herbert, Nicholas Hule, Kevin Khiavchi, Shahram

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