

#### **Cross-Connection Control Standards**

The City Council shall from time to time by resolution adopt cross-connection control standards that establish the City's requirements for design, construction, installation, and maintenance of backflow prevention assemblies. The purpose of these standards is to protect the potable water supply of the City of Dixon from the possibility of contaminants, pollutants, or water from unapproved sources entering the City's water distribution system through cross-connections. Any person receiving or using water from the City's water distribution system shall comply with all provisions of the City's then current cross-connection control standards, and the violation of any provision thereof shall constitute an infraction. In the event a water customer is found to be in violation of the cross-connection control standards by the Director the customer's water service may be terminated. The foregoing provisions shall be cumulative and in addition to any other remedy provided under any applicable law or regulation.



Cross-Connection Control and Prevention of Backflow Program

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### CONTENTS

1	General Provisions			
1.1	Purpose1			
1.2	Administration1			
1.3	Definitions			
2	Responsibility			
2.1	City Responsibility			
2.1.1	Compliance Enforcement			
2.1.2	Cross-Connection Control Surveys			
2.1.3	Backflow Prevention Assembly Inspection, Testing and Repair5			
2.2	Customer Responsibilities			
2.2.1	Backflow Prevention Assembly Installation, Inspection, Testing and Repair			
3	Minimum Cross-Connection Protection Requirements			
4	Minimum Backflow Protection Levels7			
4.1	New Non-Residential Service Connections7			
4.2	Existing Non-Residential Service Connections			
4.3	New Non-Residential Fire Suppression System Connections			
4.4	Existing Non-Residential Fire Suppression System Connections			
4.5	Residential Fire Suppression System Connections			
4.6	Temporary Meter Connection 8			
4.7	Temporary Construction Connections			
4.8	Unapproved Auxiliary Water Supply9			
4.9	Private Wells9			
4.10	Residential Service Connections10			
4.11	Dual Plumbed Residential Recycled Water Parcels10			
4.12	Non-Residential Recycled Water Parcels10			
5	Approved Backflow Prevention Assemblies10			
6	Enforcement10			
Appendix I Hydrant Permit Policy11				
Appendix II Brochure / Forms				
Appendix III Regulations / SWRCB (AB-1671)-Draft / UPC Chapter 622				

#### **1** General Provisions

#### **1.1 Purpose**

In order to protect the public water system, the *City of Dixon*, is hereby referred to as "City", has adopted Resolution No. 21-061 and this *Cross-Connection Control and Prevention of Backflow Program* (Program).

The objectives of Resolution No. 21-061 and the Program are to:

- Protect the public water system at the service connection against any actual or potential cross-connection between the public water system and any source or system containing any substance that is not, or cannot be, approved as safe, wholesome and potable for human consumption
- Outline City and Customer responsibilities for protection of the public water system
- Outline criteria determining when backflow protection is required
- Specify requirements for backflow prevention assemblies to protect the water system
- Comply with federal, state, and local laws and policies and to allow the City to meet applicable regulatory requirements and standards

All Customers of the City are subject to the conditions of Resolution No. 21-061 and this Program, as set forth herein, as well as CA-SWRCB (AB-1671), which requires the City to comply with Public Law 99-339 - 1986 Amendments of the Safe Drinking Water Act of 1974, as they are now constituted, or as they may hereafter be amended or recodified.

#### **1.2 Administration**

Except as otherwise provided, City staff shall administer, implement, and enforce the provisions of this Program. Any powers granted to or duties imposed by the City Manager may be delegated to a duly authorized employee.

#### **1.3 Definitions**

"Air-Gap Separation" shall mean a physical vertical separation between the free flowing discharge end of a potable water supply pipeline and an open or non-pressurized receiving vessel. The air-gap shall be at least double the diameter of the supply pipe measured vertically above the top rim of the vessel, in no case less than one inch.

"Approved Backflow Prevention Assembly or ABPA" shall mean any assembly that is currently included on the City's Approved Backflow Prevention Assemblies list and that has passed laboratory and field evaluation tests performed by a recognized testing organization which has demonstrated their competency to perform such tests to the California State Water Resource Control Board.

"Auxiliary Water Supply" means any water supply on, or available to the premises other than the City's potable water supply. Auxiliary water supply may include water from another purveyor's potable water system, water held in storage tanks, or any natural source(s), e.g., a well, river, harbor, recycled water, pipeline; grey water; or industrial fluids. These waters may be contaminated, polluted, and objectionable or constitute an unacceptable water source over which the City does not have sanitary control.

"AWWA standard" shall mean an official standard developed and approved by the American Water Works Association (AWWA).

"Backflow" shall mean a flow condition, caused by a differential in pressure that causes the flow of water or other liquids, gases, mixtures or substances into the distributing pipes of a potable supply of water from any source or sources other than an approved water supply source.

"Backpressure" means a form of backflow that occurs when pressure in the downstream piping system (caused by pump, elevation of piping, steam and/or air pressure) is above the supply pressure at the point of consideration resulting in a reversal of the normal flow.

"Back-Siphonage" means the form of backflow due to a reduction in system pressure that causes a negative or sub atmospheric pressure to exist at a site in the City's potable water system.

"Contaminant" shall mean a degradation of the quality of the potable water by any foreign substance which creates a hazard to the public health, or which may impair the usefulness or quality of the water.

"Controlled Cross-Connection" means a connection between the City's potable water system and a non-potable water system with an approved BFPA properly installed and maintained so that it will continuously afford the protection commensurate with the degree of hazard.

"Cross-Connection" shall mean any unprotected actual or potential connection between a potable water system used to supply water for drinking purposes and any source or system containing unapproved water or a substance that is not or cannot be approved as safe, wholesome, and potable. By-pass arrangements, jumper connections, removable sections, swivel or changeover assemblies, or other assemblies through which backflow could occur, shall be considered to be cross-connections.

"Cross-Connection Control Specialist" shall be a Cross-Connection Control Program Specialist with current CA-NV AWWA certification or City-approved organization with equivalent certification requirements.

"Customer," "consumer," or "user" means the owner or operator of a private water system served by the City's water system. "Deactivated Well" shall mean any well in which all pumping components including but not limited to pump, piping, and power supply (if equipped) shall be removed from the well casing. Additionally, the top of the well or well casing shall be provided with a cover that is secured by a lock or by other means to prevent its removal without the use of equipment or tools.

"City Backflow Prevention Assembly Tester" shall be a Backflow Prevention Assembly General Tester with current CA-NV AWWA certification or City-approved organization with equivalent certification requirements.

"Double Check Detector Backflow Prevention Assembly (DCDA)" means a specifically designed assembly composed of an approved double check valve assembly with a bypass containing a water meter and an approved double check valve assembly. The meter shall register accurately for rates of flow up to 2 gpm (gallons per minute) and shall show a registration for all rates of flow. DCDA assemblies shall only be used to protect against a non-health hazard. The DCDA is primarily used on fire sprinkler systems.

"Double Check Valve Assembly (DC)" shall mean an assembly composed of two single, independently acting check valves, two tightly closing shutoff valves located at each end of the assembly, and four test cocks for the testing of the check valves.

"Hazardous Substances" means any hazardous waste or hazardous substance as defined in any federal, state or local ordinance, rule or regulation including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (Title 42 United States Code Section 9601, et seq.); the Carpenter-Presley- Tanner Hazardous Substance Account Act (California Health and Safety Code Section 25300, et seq.); and the Hazardous Waste Control Law (California Health and Safety Code Section 25100, et seq.). Hazardous substances shall also include asbestos, or asbestos-containing materials, radon gas, and petroleum or petroleum fractions, whether or not defined as hazardous substance in any such statute, ordinance, rule or regulation.

"Manual of Cross-Connection Control" shall refer to the most current edition of the Manual of Cross-Connection Control as published by the University of Southern California's Foundation for Cross-Connection Control and Hydraulic Research.

"Objectionable Substance" means a substance introduced into the City's water supply that may not necessarily pose a threat to public health, but may adversely affect the taste, appearance or other aesthetic qualities of the potable water supply.

"Premise" shall mean any and all areas on a Customer's property which are served or have the potential to be served by the public water system.

"Point of Service Connection" shall refer to the point of connection of a user's piping to the water supplier's facilities.

"Pollution" shall mean an impairment of the quality of the water to a degree which does not create a hazard to the public health, but which does adversely and unreasonably affect the aesthetic qualities of such waters for domestic use.

"Recycled Water" shall mean water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource.

"Reduced Pressure Principle Backflow Prevention Assembly (RP)" shall mean a backflow preventer incorporating not less than two check valves, an automatically operated differential relief valve located between the two check valves, a tightly closing shut-off valve on each side of the check valve assembly, and equipped with necessary test cocks for testing.

"Reduced Pressure Principle Detector Assembly (RPDA)" shall mean a specially designed assembly composed of a line-size approved reduced pressure principle backflow prevention assembly with a bypass containing a specific water meter and an approved reduced pressure principle assembly. This assembly shall be used to protect against a non-health hazard (i.e., pollutant) or a health hazard (i.e., contaminant). The RPDA is primarily used on fire sprinkler systems.

"Service Connection" means the City's water service pipeline and appurtenances from the City's water main to the customer's water system; in particular, the point where jurisdiction for sanitary control over the water passes from the City to the customer. If a customer meter is installed at the end of the service connection, then "service connection" shall mean the downstream end of the meter. There shall be no unprotected connections from the service line upstream of any meter or backflow prevention assembly located at the point of delivery to the customer's water system. The term "service connection" shall also include a water service connection from a fire hydrant and all other temporary or emergency water service connections from the City's potable water system.

"Unapproved Auxiliary Water Supply" shall mean any water supply on or available to the premises other than the approved water supply. An Unapproved Auxiliary Water Supply includes, but is not limited to, a well, spring, pond, storage tank or any other water source that is piped or captured in any fashion that would facilitate its use as an Unapproved Auxiliary Water Supply on the premises. An Unapproved Auxiliary Water Supply does not include a decorative or natural water feature that serves solely for aesthetic and/or recreational purposes and lacks piping and/or equipment that would facilitate its use as an Unapproved Auxiliary Water Supply on the premises.

#### 2 Responsibility

Responsibility for protection of the public water system is shared by the City and the Customer.

#### 2.1 City Responsibility

Regulations of CA-SWRCB (AB-1671) - Public Health state that the water supplier has primary responsibility for protecting the public water system from contamination and/or pollution occurring through backflow by preventing water from unapproved sources or any other substances from entering the distribution system. As a water supplier, the City shall protect the public water supply from contamination and/or pollution by implementing a Cross-Connection Control Program.

The City fulfills its responsibility by requiring point of service connection protection at all existing service connections that have been surveyed and found to have existing actual and/or potential hazards to the public water system. The City does not recognize internal cross-connection protection programs and/or internal backflow protection assemblies in lieu of point of service connection protection as described herein. All new non-single family residential connections shall install City-approved backflow protection at the service connection.

#### **2.1.1 Compliance Enforcement**

If it is determined that a backflow prevention assembly is required, the installation of such an assembly shall be a condition of continued water service. The Customer shall be notified in writing and given no more than 60 calendar days from the date of the initial notice to comply. If a Customer fails to comply, then the City shall proceed with enforcement up to and including termination of water service to the parcel being served. In the event the City determines a Customer's water system poses an immediate health risk to the public water supply, the City reserves the right to immediately terminate water service without prior notification and must do so to comply with CA-SWRCB (AB-1671).

#### 2.1.2 Cross-Connection Control Surveys

A Cross-Connection Control Survey (Survey) shall be performed by City or contractor staff certified as a CA-NV American Water Works Association Cross-Connection Control Program Specialist. The City shall conduct Surveys of existing unprotected premises and premises suspected to have existing inadequate backflow protection. If an actual or potential hazard is determined to exist, a backflow prevention assembly shall be installed by the Customer in accordance with current City specifications upon notification. All expenses of the installation shall be the Customer's responsibility. Existing premises not required to install backflow prevention assemblies as a result of a City Survey shall be subject to subsequent regular City Surveys for the purpose of confirming continued compliance pursuant to this Program.

#### 2.1.3 Backflow Prevention Assembly Inspection, Testing and Repair

During installation and prior to covering trenches, the City shall visually inspect the connection and entire length of pipeline from the meter or service connection to the downstream side of the Approved Backflow Prevention Assembly (ABPA) before City acceptance. Backflow prevention assemblies require initial and annual testing, which shall be performed by the City. City may elect, in its sole discretion, to assign any or all annual testing responsibilities to a duly authorized representative with prior written authorization. Repairs of an ABPA comprised of internal part replacement and flushing shall be performed by the City. The City will attempt to repair an assembly that does not pass annual testing. If the City is unable to repair the assembly, then the Customer will be notified of the requirement to replace the assembly with an ABPA. The City's current fee for performance of initial inspection, initial and annual testing, and repair of internal components, which is assessed on the Customer's bi-monthly City water bill, is outlined in the City's Master Fee Schedule.

Any repair or replacement of any external components including, but not limited to, assembly housing, shut-off valve, or relief valve housing shall be performed by the Customer and subject to inspection by the City. Any replacement of irreparable assembly or installation of a new ABPA shall be performed by the Customer and subject to inspection by the City. The City shall not be responsible for any loss or damage directly or indirectly resulting from or caused by any improper or negligent installation, operation, use, repair or maintenance of, or interference with, any backflow prevention assembly required by this Program, by any Customer or any other person.

#### **2.2 Customer Responsibilities**

The Customer will have the prime responsibility of preventing contaminants and/or pollutants from their water systems entering the public water system.

#### 2.2.1 Backflow Prevention Assembly Installation, Inspection, Testing and Repair

The Customer shall own and bear all cost for the installation of all ABPA required in accordance with this Program. Upon notification by the City, the Customer shall repair or replace existing assemblies determined to be unapproved, defective, damaged or not providing the level of protection specified by this Program. All installations shall comply with the Uniform Plumbing Code and the City's current Design and Construction Standards. The Customer shall contact the City to request necessary inspections prior to covering pipe and/or connections associated with the installation.

The Customer shall bear all costs that Customer determines are necessary in their sole discretion, for the installation of pumps or renovation of existing Customer piping, as a result of any decreases in line pressure or flow attributed to upgrading or installing an ABPA.

The Customer shall provide the City and its agents with unimpeded access to backflow prevention assemblies for routine testing and repairs. The City recognizes the potential of freeze damage to ABPAs and associated above ground piping. Commercially available insulated "soft" covers are authorized to be installed by the Customer for the purpose of freeze protection if such cover provides access for required testing and maintenance. Customer shall not, without City's prior written authorization, install any enclosure or any other apparatus for the purposes of freeze protection or theft deterrent that impedes access to the assembly, per City Specs. Upon determination by City staff, enclosures posing a safety hazard or impeding access shall be upgraded or removed by the Customer to assure the safety of City staff and completion of testing.

#### **3 Minimum Cross-Connection Protection Requirements**

The type of protection that shall be provided to prevent backflow into the City water supply

system shall be a minimum of a Reduced Pressure Principal Backflow Prevention Assembly (RP) for all non-single family residential connections and Reduced Pressure Principle Detector Assembly (RPDA) for all non-residential fire suppression system connections, upgrades, and new installations. Services to Premises that pose an actual or potential health hazard (contaminant) shall be protected with an air gap separation unless the City determines that based upon the level of hazard a RP is sufficient to protect the public water system. The Customer may install a higher level of protection than specified by the City (e.g., air gap in lieu of RP) following prior written City approval.

#### 4 Minimum Backflow Protection Levels

Minimum protection levels shall be determined by the City. The following list of circumstances shall require a minimum of a RP for backflow prevention and is not exclusive:

- All new non-residential connections
- Premises determined by the City to have unusually complex plumbing configurations that cannot be adequately evaluated
- Premises with limited access or that deny access to the City for internal inspections
- Existing non-residential connections where City water facilities and connections are modified, upgraded or improved
- Each service connection that supplies water to Premises on which any substance is or may be handled in such a manner as to permit entry into the public water system, including water originating from the public water system which is or may be subjected to deterioration in sanitary quality
- Parcels having more than one service connection; (Multi-family, Tri-plex, Apartments)
- Premises where there are irrigation systems into which fertilizers, herbicides, or pesticides are, or can be injected
- Premises where a cross connection exists, or the potential for one that could result in the pollution or contamination of the public water system
- Residential parcels used for business purposes determined by the City to pose a threat to the public water system
- Premises with any Unapproved Auxiliary Water Supply, whether or not it is interconnected with the public water system, except those premises with a Deactivated Well
- Premises with internal pressure boosting system
- All sewage/wastewater treatment facilities and sewage lift stations
- All pre-existing, non-conforming water softeners must have an RP installed at the meter or removal of all equipment will be required

Nothing in this Program shall be construed as affecting Customer's responsibility for meeting the local fire city's fire system flow requirements. Nothing in a local fire district's fire flow system requirements shall be construed as affecting Customer's responsibility for meeting the requirements of this Program.

#### 4.1 New Non-Residential Service Connections

A minimum of a RP shall be installed at all new non-residential service connections.

#### 4.2 Existing Non-Residential Service Connections

Existing unprotected non-residential connections are subject to City evaluation and onsite cross-connection control surveys. The City must be provided unimpeded access to perform internal inspections for the purpose of determining cross connection hazards. If City access is impeded for any reason, then the Customer will be required to install a minimum of a RP to protect the public water system.

#### 4.3 New Non-Residential Fire Suppression System Connections

All new non-residential fire suppression system connections shall be protected with a City approved RPDA installed according to City specifications.

#### 4.4 Existing Non-Residential Fire Suppression System Connections

Non-residential fire suppression systems currently protected with a minimum of a single detector check valve will be allowed to continue in service until such system is modified, updated, improved, or hazard classification is determined to require an RPDA. If existing protection is determined inadequate or is modified, improved, or updated as identified under this Program, the Customer shall install a RPDA at the point of connection to City water system according to City specifications.

#### 4.5 Residential Fire Suppression System Connections

A residential fire service is a connection which is used both for fire protection and to provide domestic water (to bathrooms, sinks, or other uses not related to fire protection). Backflow protection at the meter shall be required on premises determined by the City to pose an actual and/or potential health hazard and shall be at a minimum a RP.

The following list of circumstances shall require a minimum of a RP for backflow prevention and is not exclusive:

- Any fire system supplied by or that has the potential to be supplied by an Unapproved Auxiliary Water Supply
- Any fire system in which a chemical or additive has been introduced that is not approved for a public potable water supply

When a separate dedicated water service connection is used solely for a fire suppression system, a minimum of a RP shall be required for that connection. In the case of a dedicated fire service connection serving a parcel with existing City water service(s), all other City service connections shall require a minimum of a RP.

If the City determines the existing fire suppression system connections have inadequate protection as described under this Program, upon notification the Customer shall install a RP according to City specifications. The Customer shall be responsible for meeting local fire district's fire system flow requirements.

#### 4.6 Temporary Meter Connection

Temporary meter connections to City hydrants, blow-offs, or other City infrastructure shall be protected with a minimum of a RP. The temporary meter and RP shall be installed by a City Backflow Prevention Assembly General Tester upon Customer submittal of appropriate request form and accompanying deposit to the City. The location of the installed temporary meter connection shall be determined by the City in its sole discretion following review of request form. Customer shall access water at approved location through City-installed gate valve located downstream of RP. Under no circumstances shall Customer operate hydrant, blow-off, or other City infrastructure.

#### **4.7 Temporary Construction Connections**

Temporary construction connections to City water mains used for the purpose of testing and flushing non City water lines shall be protected with a minimum of a RP. The RP shall be installed in accordance with City's current Design and Construction Standards and shall be inspected and certified by a City Backflow Prevention Assembly General Tester prior to use and annually thereafter until completion of project. Failure to contact City in a timely manner for annual certification may result in termination of connection to City water main. Each RP must also be retested by a City Backflow Prevention Assembly General Tester upon relocation. The City shall not make repairs to these assemblies.

#### **4.8 Unapproved Auxiliary Water Supply**

Any parcel served by City water service that is determined to have an Unapproved Auxiliary Water Supply, whether or not it is interconnected with the public water system, shall install a minimum of a RP or deactivate the well as defined by this Program upon notification.

#### **4.9 Private Wells**

A private water well is classified as an Unapproved Auxiliary Water Supply whether or not it is interconnected with the public water system unless it is a Deactivated Well. The Customer may continue to use this Unapproved Auxiliary Water Supply as long as a RP has been installed at the point of service connection to City specifications. Parcels having inactive (locked off) City water service connections along with onsite Unapproved Auxiliary Water Supplies shall be evaluated by a City Cross Connection Control Specialist prior to City water service reactivation. Continued use of any unprotected City water service shall require well deactivation as defined by this Program or destruction in accordance with current City of Dixon requirements. In circumstances where Customer does not currently utilize the well, but may seek to do so in the future, Customer may elect to deactivate well as defined by this Program. To be considered a Deactivated Well by the City, Customer shall remove all pumping components including but not limited to pump, piping, and power supply (if equipped) from the well casing. Additionally, the top of the well or well casing shall be provided with a cover that is secured by a lock or by other means to prevent its removal without the use of equipment or tools. Customer shall notify City prior to reactivation of well and shall be responsible for installing appropriate backflow protection as required by this Program prior to such reactivation. A Deactivated Well shall also be subject to periodic evaluation by City staff to verify no reactivation has occurred. Nothing in this Program shall be construed to affect Customer's responsibility to comply with any other applicable regulations related to operation and/or destruction of the well, including but not limited to those requirements of the City of Dixon and the State of California.

New customers requesting City water service who also have private water well on the parcel will be required to install a minimum of RP prior to initiation of water service or deactivate the well as defined by this Program. In circumstances where the private water well is serving an existing structure for domestic purposes and the Customer has notified the City that he/she intends to destroy or deactivate the well upon receipt of City water service, a City Cross Connection Control Specialist must be present to observe physical disconnection of the well from its source prior to unlocking the installed City water service. Upon unlocking and initiation of water service, the Customer will be responsible for completing deactivation or destroying the well in accordance with current Solano County requirements no later than sixty days following initiation of City water service.

#### 4.10 Residential Service Connections

Any residential parcel determined to have a Cross-Connection hazard as defined in this Program shall be required to install an ABPA.

#### 4.11 Dual Plumbed Residential Recycled Water Parcels

A minimum of a Double Check Valve Assembly shall be required for residential potable connections serving parcels with recycled water service as part of an approved dual plumbed use area established pursuant to sections 60313 and 60316 of California Code of Regulations, Title 22.

#### 4.12 Non-Residential Recycled Water Parcels

All non-residential parcels receiving recycled water service shall be required to install at a minimum a RP on all potable service connections serving the same parcel.

#### **5** Approved Backflow Prevention Assemblies

Only backflow prevention assemblies on the City's current approved list shall be installed and accepted for City water system service protection. All backflow prevention assemblies installed or upgraded shall be owned by the Customer.

#### 6 Enforcement

Failure to comply with any term and condition prescribed herein and/or CA-SWRCB (AB-1671), and California Health and Safety Code may result in enforcement action against the Customer including, but not limited to, termination of water service. Violations of Resolution No. 21-061 as implemented by this Program, may result in fines and/or penalties. Fines and/or penalties shall be set forth in the City's Master Fee Schedule (See Master Fee Schedule).

# Appendix I Hydrant Permit Policy, Fees, and Forms



#### **Hydrant Permit for Construction Use of Water Purposes**

It is unlawful for any person to use the water service of another for construction purposes without first obtaining a **permit** from the Public Works Director and the consent of the other person. All water service for construction purposes shall be metered as provided under **Article VII. Special Water Services**, unless the Public Works Director approves alternate measuring methods. All persons doing work on the public streets, public easements or rights-of-way, existing or proposed, shall apply for and be issued a **permit** prior to drawing water or obtaining service for construction purposes such as for the settling of earth, rock, gravel or dust. Service for such purposes shall be charged per rates identified in **Article VI. Rates and Charges**, per 100 cubic feet of water, and charged a connection charge as established by resolution adopted by the city council, as amended from time to time, per connection ad resulting contamination of the water distribution system. Water meters are available from the water department. Charges for use and rental of water meters and backflow preventors, shall be as established by resolution adopted by the city council, as amended from time to time. The Public Works Director, in the Director's discretion, may establish related requirements for the use of all construction water and services.



The City of Dixon issues hydrant permits as a water source for construction, demolition, dust control or similar purposes. The permit authorizes the applicant to operate a particular fire hydrant for the purpose of obtaining water on a temporary basis.

To request a Hydrant Permit, please complete the Hydrant Permit Application Form.

For back flow assembly repair, test or retest, please fill out the **<u>BFP Test/Repair Form</u>**.

If requesting to pull from a private hydrant, owner authorization must granted, documented, and submitted along with the Hydrant Permit Application. See Terms and Conditions in application for full disclosure of permit requirements.

Completed forms should be mailed to the City of Dixon Utility billing. 600 East A Street, Dixon CA 95620 or faxed to (707) 678-7005 ext. 2.

#### **Hydrant Permit Fees**

- Equipment Deposit: \$1800.00
- Fire Hydrant Application Fee: \$100.00
- Meter and Backflow Monthly Rental: \$100.00
- Usage Rate per hundred (100) CCF: \$1.40
- Backflow Relocation/Retest: \$75.00

Contact the Utility billing at (707) 678-7005 ext. 2 or ulitity.billing@cityofdixon.us

All hydrant users are required to have a permit. Using a fire hydrant without a permit is in direct violation of Municipal Code 14.02.710 under Article VII, Special Water Service.

Revocation of Permit: Permits may be revoked without notice for failure to comply with any of the terms, conditions and instructions included on the permit or under emergency circumstances as determined by the City of Dixon. We reserve the right to not reissue a permit to any permit holder that has violated any clause in the hydrant policy or any terms and conditions of the permit.



#### HYDRANT PERMIT AGREEMENT

#### I AGREE AND UNDERSTAND THE FOLLOWING:

- 1. Hydrant permits require up to two full business days. Walk in's will not be provided a permit or meter backflow combo pack. Equipment and permit will be delivered to the specified job site by scheduled appointment.
- 2. City staff will contact the onsite representative within 48 hours to schedule the meter backflow combo pack delivery and installation. During installation, the applicant will receive a copy of the permit and paid receipt.
- 3. The applicant must abide by all laws, ordinances, rules, regulations, policies, procedures, and conditions related to use of fire hydrants and accept full responsibility for any and all violations of the City of Dixon's Municipal Code and CA-SWRCB, (AB-1671).
- 4. Backflow prevention measures shall be taken for any connection as specified in Dixon's Resolution.
- 5. Only a meter and backflow permitted and issued by the City of Dixon on fire hydrants designated and approved for use under this permit will be allowed. Use of private equipment is prohibited.
- 6. Once the meter backflow combo pack is installed on the approved hydrant, the equipment may not be moved. No exceptions. Failure to comply with this condition will result in termination of the permit.
- 7. During installation, any damage to the rented meter backflow combo pack and associated equipment will be documented and compared to any additional damages discovered upon completion of the permit.
- 8. Meter and Backflows are only to be moved by City staff at the request of the applicant. If the location change is authorized by the City, a backflow retest fee must be paid before the device will be moved.
- 9. The Hydrant Permit must remain valid throughout the duration of the project.
- 10. A non-metered connection to a fire hydrant constitutes water theft and/or tampering. Any and all water draws from a public or private fire hydrant, without first obtaining a permit from the City of Dixon Public Works Dept., is strictly prohibited and may be subject to criminal charges and all applicable fees.
- 11. All service charges, consumption charges and penalties incurred until the meter backflow combo pack and all equipment have been collected by the City of Dixon Public Works Dept., whether or not the permit is valid is the responsibility of the permit holder. Failure to pay in full may result in criminal charges and/or suspension of any further permits.

- 12. Tampering or falsification of records or attempt to defraud the City of Dixon will result in immediate termination of the Hydrant permit, considered water theft, and may be subject to criminal charges.
- 13. Water used will be billed at the rate of \$1.40 for every hundred (100) cubic feet as outlined in the City of Dixon Resolution No. 21-061. Monthly water use will be billed at close of the permit.
- 14. Monthly rental charges and all other applicable fees will be deducted from the deposit and invoiced if in excess of deposit, at the close of the permit. Failure to remit payment in full within thirty (30) days of the close of permit may result in penalties and/or fines.
- 15. Deposit must be paid separate from the permit fees. All deposits will be held until the close of the permit.
- 16. Please contact City staff at (707) 678-7005 opt. 2 to close a permit and return equipment. Meter backflow combo packs are only to be moved by City staff.
- 17. Meter backflow combo packs and associated equipment will be collected by the City of Dixon Water Operations Division on the permit expiration or termination date. Missing equipment will be considered lost or stolen property and may be subject to criminal charges and applicable fees if not returned within fifteen (15) days following the permit expiration or termination date.
- 18. Any meter, backflow device, valve adapter or hydrant rendered lost, stolen, damaged or irreparable, will subject the permit holder to forfeit the \$1,800.00 deposit, or portion thereof, to cover the replacement cost incurred by the City of Dixon. Applicant will be billed prevailing wage for any work performed by City of Dixon staff in conjunction with the repairs.
- 19. The City of Dixon reserves the right to refuse service and/or issue permits to accounts not in good standing.
- 20. Any violation of these conditions may result in termination of the Hydrant permit.

In addition to the foregoing qualifications, I declare that I have been provided with a copy of the Hydrant Permit Terms and Conditions. I have read, understand and agree to the Conditions which are incorporated herein by reference.

Name of			
Applicant:	 	 	 



### City of Dixon Public Water System - Hydrant Meter Request Form

- 1. A deposit of \$1800.00 payable by cash, check, or money order is required, and will include the following fees:
  - Application Fee \$100.00 (non-refundable)
  - Device rental fee per month \$100.00 (non-refundable)
  - Usage rate per CCF (100 cubic feet) \$1.40 (if applicable)
  - Device relocation/backflow recertification test \$75.00 (if applicable)

Upon inspection and verification of the returned device, any remaining balance of the deposit will be returned to the applicant. If there is an outstanding balance from consumption and/or duration of the rented device the applicant agrees to pay the amount in full upon termination of this agreement. If the device is not returned, or returned damaged, the deposit will not be returned, and the applicant will be responsible for any cost accrued during the duration of this contract.

- 2. Meter installation will occur within 1-3 business days from the requested date. The City will secure the device to the requested Hydrant. The City is not responsible for any damage, tampering, or theft after installation.
- **3.** <u>BACKFLOW PROTECTION IS REQUIRED:</u> A reduced pressure principal backflow is included with your device. Once installed City Operators will certify the device is functioning properly. The device shall not be disconnected, relocated, or tampered with in any way without request for a relocation/recertification test. Please contact billing for any relocation requests.
- 4. When you are finished with the device do NOT remove the meter. Contact billing at 707-678-7005 (opt. 2). The City's Water Operations division will promptly remove the device for inspection and submit a final usage reading to billing.

Contact Person:					
Mailing Address:		City:		State:	Zip
Meter Location:					
Date:	to	Estim	nated amount of w	vater needed:	
Please Sign Here->					
	CI	TY USE ONLY			
CC Check #	Amount Received		Date Received	Received by	
Meter #	Start Read		Installed By		Date
BFP Serial #:	BFP C	Certified By			Date
Service Discontinued By Person			Date	Contacted by: I	Email Phone In
Date Removed No Comments	Removed By		Final	Read	_ Damage? Yes

Company Name:

City of Dixon Utility Billing – 600 East A Street. Dixon CA, 95620

Phone: 707-678-7005 (opt. 2) Fax: 707-678-0960 Email: <u>utility.billing@cityofdixon.us</u>

## City of Dixon Public Water System – BFP Test/Repair Form

				Backflov	<pre>/ Prevention A</pre>	ssembly Te	st Report –	
Service Address:			Control #:		Se	rial #:		
			Route #:		Manufad	turer:		
Contact Address:			Meter Register	#:	Ν	lodel:		
						Туре:		
						Size:		
Location Descripti	on:				Orient	tation:		
					Prote	ection:		
OFFOR	Existing		Commercial/Ind	lustrial	Resident	ial	Construction	
	New		Domestic		Irrigation	ı 🗌	Fire	
	Replacement				d Pressure Prir	•	nbly	
1101				Double Check Valve Assembly				
INITI	AL TEST			ck Valve	# 2 Check	k Valve	Relief Va	lve
Pass	Fail		Leaked		Leaked	님	Did Not Open	님
			Tight		Tight		Opened	
Line Pressure: Meter Read:			Held at	PSID	Held at	PSID	Opened at	PSID
	INITIAL TEST							_
					Gauge Serial #:			
Tester License #:				Ce	rtification Date:			
Date of Test:			Certification Date: Time of Test:					
Signature:					Tester Phone #:			
			1				1	
REPAIRS			Cleaned		Cleaned	님	Cleaned	님
Date:			Repaired Parts Replaced:		Repaired Parts Replaced:		Repaired Parts Replaced:	
Time:			Farts Replaced.		rans kepiaceo:		Farts Replaced.	
FINAL TEST	AFTER REPAIR	2)	#1 Chee	ck Valve	# 2 Check	k Valve	Relief Va	lve
			Leaked		Leaked		Did Not Open	
Pass	Fail		Tight		Tight		Opened	
Line Pressure:								
Meter Read:			Held at	PSID	Held at	PSID	Opened at	PSID
	FINAL TEST			* same as initial	tester		•	
Tester Name:					Gauge Serial #:			
Tester License #:				Ce	rtification Date:			
Date of Test:					Time of Test:			
Signature:					Tester Phone #:			
Please return com	nleted test	20V	City of Dixon		ttn: Josh Hudson			
	reports to:		Engineering Depa 600 East A Street		mail: jhudson@city hone: (707)678-70			
Last revised April 2018		and the second	Dixon, CA 95620					

# Appendix II Brochure / Survey

#### Can I install any BPA I choose?

Because the City conducts internal repairs for BPAs and the fact that there are many different BPAs on the market today—only City-approved BPAs are allowed for use as system protection. By requiring this, the City is able to maintain an inventory of specific parts and avoid the need for special ordering parts. The City's goal is to minimize any delay in needed repairs for BPAs

## Who do I call if I'm having trouble with my BPA?

Please call the City first for any problems related to your backflow assembly. Our service includes troubleshooting and making internal repairs when needed.

#### Can freezing temperatures harm my BPA?

Yes. BPAs are required to be installed above ground, which will expose the BPA and other piping to the elements. The City recommends the use of freeze protection for all above ground pipes and BPAs. However, the use of freeze protection must not prevent access for annual testing and maintenance by City staff.

## How do I protect my BPA from theft or vandalism?

Unfortunately, BPAs can be subject to theft or vandalism. If you intend to secure your BPA with a locking enclosure or other such device, please contact the City to inquire about access requirements for testing and maintenance. Please do not apply tar or other unapproved coatings to BPAs as this could limit access, prevent required annual testing, and possibly pose a contaminant risk.

## I have a well on my property. Am I required to install a BPA?

State law and City regulations require the installation of a BPA when a well and City water service exist on the same parcel whether or not the two are connected. However, if a well is inactive, as defined by City administrative regulations, a BPA will not be required as long as the well remains inactive.

## My building has internal BPAs: Do I still need one at my water meter?

Yes. Internal BPAs are designed to isolate potential contamination sources within the building and not to protect the public water supply. Even though plumbing code provisions may be rigidly enforced on new installations, "on-site" modifications of private plumbing are commonly observed. Therefore, the only practical way to assure protection of the public water supply is to install a BPA at the point of service connection (water meter). Accordingly, regardless of what happens inside the customer's property, the public water supply is protected.

#### Is this program required by law?

Yes. Congress established the Safe Drinking Water Act (SDWA) in 1974 to protect human health from contaminants in drinking water and to prevent contamination of existing groundwater supplies. This act and its amendments (1986 and 1996) require many actions to protect drinking water and its sources.

CA-SWRCB (AB-1671) requires water suppliers to protect the public water supply from contamination by implementation of a cross-connection control program.

# Why is annual BPA testing required? Who performs the annual test?

BPAs, like any mechanical device, are subject to failure. Annual testing is required by the state to ensure that the devices are operating as designed. Only certified City staff or its authorized representatives may conduct annual BPA testing. Cross-Connection And Backflow Prevention Program



#### **City of Dixon Mission Statement**

The City of Dixon provides public services to promote and support safety and economic opportunities while enhancing our small town character. Tel. (707) 678-7031 www.ci.dixon.ca.us



### **Backflow Prevention Survey**

Name:	
Signature:	
Date:	
Address: _	
1.	Is there a well or any other source of water that does not originate from the water meter at the above address?
	Yes No
2.	Is there a pool or hot tub located at the above address?
	Yes No
3.	Are you currently storing or irrigating with rain water, grey water, or any other form of water at the above address?
	Yes No
4.	Is there a storage tank for water and or pumps connected to your water piping at the above address?
	Yes No
5.	If well or any other source of water exists, what do you use the water supply for?
	Irrigation of lawn and garden
	Domestic supply for household
	Other (please explain)

### **Frequently Asked Questions**

#### What are we protecting the public water supply from?

The City's goal is to prevent pollution and contamination from entering the public water supply by keeping water that has entered a private facility from flowing back into the public water system.

#### What is a backflow prevention assembly (BPA)?

A BPA is a testable, mechanical device containing one- way valves to prevent contaminated water from flowing backward.

#### What causes water to flow backward?

Back-siphonage and back-pressure.

#### What causes back-siphonage?

Back-siphonage is created when there is a sudden drop in water pressure in the public water distribution system due to line breaks, firefighting or other high demand.

#### What causes back-pressure?

Heating systems, elevated tanks, and pressure producing pumping systems connected to the customers private water system can create pressure that exceeds the public water supply pressure.

#### Does the City own my BPA?

No. All facilities located downstream of the water meter are owned by the customer. The City's responsibility is limited to the testing and maintenance of the BPA's internal parts only. Repairs for damage to BPAs caused by freezing, theft, vandalism, or vehicles are the responsibility of the customer

# Appendix III Regulations / SWRCB (AB-1671)-Draft Uniform Plumbing Code-Chapter 6