CITY OF MURPHY
LIFE LIVED AT YOUR PACE

BACKFLOW PREVENTION INFORMATION SHEET

PROJECT ADDRESS: _____

APPLICATION NUMBER: _____

PROJECT NAME: _____
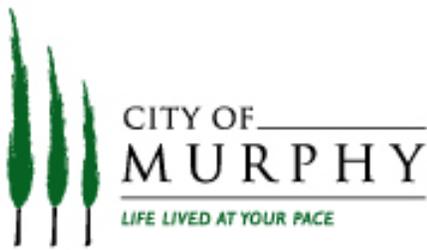
CONTACT PERSON: _____

PHONE NUMBER: _____

Please indicate by placing an X in the appropriate box with regard to the backflow items provided. Completion of this form will be forwarded to the Utility Operations Department. To prevent delays at time of final inspection this form must be completely and accurately filled out.

Place "X" here	Backflow Items **	Type of Protection Required	Type of Protection Provided	Number of Assemblies Provided
	Auxiliary water supply mainline and isolation	R.P.Z.		
	Boilers/ Chillers for space heating mainline and isolation	R.P.Z.		
	Building containing a reclaimed water system mainline and isolation	R.P.Z.		
	Carbonated Drink Dispenser	STAINLESS STEEL R.P.Z.		
	Car Washed mainline and isolation	R.P.Z.		
	Chemical Mop Bucket Washers	A.V.B. with no downstream shut-off Valves and an Air Gap on Hose		
	Commercial Laundry Washers, Dry Cleaners mainline and isolation	AIR GAP or R.P.Z.		
	Cooling Towers/Evaporative Coolers mainline and isolation	AIR GAP or R.P.Z.		
	Dishwasher (Residential type)	AIR GAP fitting on drain line (loop option prohibited)		
	Fire protection system utilizing chemicals or additives (new installations only or completed remodel)	R.P.Z. (Assembly must have U.L or F.M and U.S.C. ratings)		
	Fire protection commercial and residential systems without chemicals or additives	D.C. (Assembly must have U.L or F.M and U.S. C. ratings)		
	Fountains/Outdoor Decorative Pool	AIR GAP, R.P.Z. or P.V.B. with no downstream pump.		
	Green house or nursery (with toxic chemicals)	R.P.Z.		
	Hospital/Dental/Doctor/Veterinarian Equipment (All medical equipment) mainline and isolation	R.P.Z. or AIR GAP		
	Ice Cream/Yogurt/Custard Machine with antifreeze circulating system connected to the water supply	R.P.Z.		
	Irrigation Commercial/Residential	D.C., P.V.B. or R.P.Z.		
	Irrigation Chemical Injection	R.P.Z.		
	Mixing Valves with Hose Attachments	R.P.Z. or A.V.B. with no downstream shut-off		
	Photography Equipment	R.P.Z.		
	Construction fire hydrant meters	D.C.		
	Trap Primers	AIR GAP (1 inch minimum)		
	Sewage lift stations mainline and isolation	R.P.Z.		
	Swimming Pools	R.P.Z. or AIR GAP		
	Wall Hydrants/Commercial Landscape Areas	A.V.B. unless chemical injectors are to be used		
	Wall Hydrants/Commercial Garage Areas	A.V.B. unless it is a Radiator Shop, Chemical Tanker Repair Shop etc. then R.P.Z.		

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	Water Heater	AIR GAP (6-inch minimum) on T&P Drain Line		
	Water Injected Garbage Disposals	A.V.B. water supply line, with an AIR GAP on drain line		
	Water Injected Soap Dispenser	R.P.Z. or AIR GAP		
	Water Softeners	R.P.Z.		
	Other:_____	R.P.Z., P.V.B., D.C., A.V.B.		
	None of the Above			

** Situations which are not covered in the Table above shall be evaluated on a case-by-case basis by the City, and the required backflow prevention assembly shall be determined by the Public Works Superintendent.

Mainline; Reduced Pressure Backflow Assembly or Air Gap only. No closer than 3ft from meter and no tee's or branches before assembly

Isolation; Backflow Assembly to be installed at point of water connection to eq.

R.P.Z.-Reduced Pressure Backflow Assembly (Assembly required to be tested-see reverse side)
A.V.B-Atmospheric Vacuum Breaker
D.C.-Double check Valve Backflow Assembly (Assembly required to be tested-see reverse side)
Air Gap-A separation of 1-inch minimum or twice the diameter of the pipe whichever is greater
P.V.B's can have a down stream shut-off valve
A.V.B's are not allowed in any Health situation and no downstream shut-off valves.
No Vacuum Breaker shall be subjected to any type of back pressure situation.
Spill Proof Vacuum Breakers are not allowed in Murphy
P.V.B.-Pressure Vacuum Breaker (Assembly required to be tested- see reverse side)

REGISTRATION: Prior to performing any testing of backflow prevention assemblies within the City of Murphy, a certified backflow prevention assembly technician must be registered with the City of Murphy Public Works Department.

TESTING OF BACKFLOW PREVENTION ASSEMBLIES: The backflow prevention assemblies shall be tested by a certified backflow prevention assembly technician. In order to properly register a backflow prevention assembly with the Public Works Department of the City of Murphy, a Backflow Prevention Assembly Test Report form shall be completed by a certified technician on each backflow prevention assembly tested. Each completed form, together with the records of such tests, repairs, or replacement, shall be forwarded to the Public Works Department of the City of Murphy within ten (10) days after the testing, repair or replacement.

BACKFLOW PREVENTION ASSEMBLIES REQUIRED:

(a) Each service connection from the public water system to premises having an auxiliary water supply shall be protected against backflow of water from the premises into the public water system with a Reduced Pressure Backflow Prevention Assembly.

Customer Service Department
206 North Murphy Road ● Murphy, Texas 75094 ● Tel: 972.468.4100 ● Fax 972.468.4127
Email: customerservice@murphytx.org *Website:* www.murphytx.org

Updated 4/29/2012

(b) For all newly constructed premises on which a substance is handled so that it my enter the public water system, each service connection from the public water system to such premises shall be protected against the backflow of water from the premises into the public water system. This requirement shall apply to each premise on which persons handle process water and water originating from the public system, which has been subjected to deterioration in sanity quality.

(c) For all existing premises on which a substance is handled so that it may enter the public water system, each service connection from the public water system to such premises may be required to be protected against the backflow of water from the premises into the public water system upon the determination of the Superintendent. This requirement shall apply to each premise on which persons handle process waters and waters originating from the public water system, which have been subjected to deterioration in sanitary quality.

(d) Backflow prevention assemblies shall be installed on a service connection to premises: (1) having internal cross-connections that cannot be permanently corrected and controlled, (2) upon the appropriate City official's determination that an intricate plumbing and piping arrangement exists which makes it impractical to ascertain whether cross-connections therein, or (3) where a portion of the Premises cannot be readily accessed for inspection purposes making it impractical or impossible to ascertain whether cross-connections exist. The customer connected to the public potable water system shall make all necessary arrangements, at its sole expense, to remove without delay security barriers or other obstacles to access by the Superintendent.

(e) If an interstreet main flow my result from two or more service supplying water from different street mains to the same building, structure, or premises, then a standard check valve shall be installed adjacent to the respective meters and on the owner's property. If a check valve is not adequate to project the public water system's mains from pollution or contamination, the installation of an approved backflow prevention assembly may be required by the Public Works Superintendent. Approval will be given if a backflow prevention assembly is functioning. A determination by the Public Works Department Superintendent, Building Official, or their respective designee(s) that a check valve is inadequate or that an approved backflow prevention assembly is required may be appealed.

For more information, contact the City of Murphy Public Works Department
206 North Murphy Road
Murphy, Texas 75094
972-468-4000

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