Barrie's Backflow and Cross-Connection Control Program – initiated in 2009

- Risk-based application
- Applies to all ICI properties (plus a few residential units which have long been covered under the Ontario Building Code (OBC))
- Purpose to ensure safe drinking water to our customers and protect human health

 in keeping with the intent of the Safe
 Drinking Water Act (SDWA) and
 Regulations



Cross Connection Surveys

- A cross connection survey (CCS) is a visual inspection by a "Qualified Person" of water connections on a property to identify connections that pose a contamination hazard to the drinking water system – including hazards to the building occupants.
- One property containing one connection to the municipal drinking water system only requires one CCS (regardless of the number of units with different tenants within the building..



Cross Connection Surveys

- Since program implementation, by By-Law in 2009, a total of 2125 CCS have been submitted to Barrie's Water Operations Branch. Of which, approximately 98% have noted the presence of at least one cross connection requiring mitigation through a plumbing change or device installation.
- Through-out the Backflow Prevention Program implementation (2009 to date), some Property Owners have provided Barrie's Water Operations Branch with information related to the costs of their cross connection surveys. The following is based on the information we have received:
 - 55-65 unit condominium building averaging cost of \$513.00 per cross connection survey.
 - 119 unit condominium building cost \$544.00 for a cross connection survey.
 - Commercial Multi-tenant strip plaza (10-15 units) averaging cost of \$235.00 per cross connection survey.



Commercial Multi-tenant Plaza

	islness Commercial / Rental	Street Address of Property:
ULL DISCLO	, of the owner or building occupier t	to assist the Approved Personnel in carrying out a survey and is not to be construed as addressing all potential cross connection situations, it is if obing to the attention of the Approved Personnel all water uses within the premises to permit inspection for potential cross connection as ARE MANADATONY, SEE REVIESS FOR ADDITIONAL INFORMATION.
REFER.	LOCATION	RECOMMENDATIONS / SCHEDULE OF WORK
1		Install DCVA at premise with thermal expansion.
3	Mechanical Room	Test and tag irrigation DCVA.
24	1	Remove water line for soap dispenser from mop sink faucet and Install supply on separate water line.
28		Install DCAPC at pop dispenser.
29	-	Install DCAP at coffee machine.
30		Install check valve at water softener.
32		Install non-potable labels on water piping.
34		Remove hose bibs water line from house water main and re-install on Red Line Brewery zone line. Install RP device to zone all hose bibs on brewing house floor.
45		Test and tag DCYA at water main zone.
47		Install DuC at water softener.
49		Zone all hot and cold water lines with RP device in room with mortuary equipment.
50	Tim Horton's	Test and tag DCVA at water main zone.
51	Tim Horton's	Test and tag RP at sprinkler main zone.
52	Tim Horton's	Install check valve at water softener.
56	Tim Horton's	Install DCAP at ice machine.



Item #49 – Aspirator equipment used for the embalming process.

The CCS identifies hazards that are interconnected to the same plumbing system. Without identifying these cross connections, the hazard created by the aspirator could directly impact the quality of water provided to the employees and the public in the Tim Hortons.



Single Family Dwelling Converted to Office



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CROSS CONNECTION SURVEY FORM: PART C - CORRECTIVE

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Part C of this Survey is not valid unless accompanied by Parts A & B & Regulatory Authority Interim Recommendations If Applicable.

Include recommendations of corrective measures and a schedule of work to be completed.

Occupan Name:	t/Business	Street Address of Property:
responsib	pility of the owner or building occupier, to brit	sist the Approved Personnel in carrying out a survey and is not to be construed as addressing all potential cross connection situations. It is the 19 to the attention of the Approved Personnel all water uses within the premises to permit inspection for potential cross connection and EMANDATORY. SEE REVERSE FOR ADDITIONAL INFORMATION.
REFER. ITEM#	LOCATION	RECOMMENDATIONS / SCHEDULE OF WORK
1	Water Meter Room	Install and Test DCVA on Domestic Building Supply with Provision for Thermal Expansion
2	Water Meter Room	Install HCVB on 4 x Hose Connections @ Laundry Tub
3	Water Meter Room	Install HCVB on 2 x Hose Connections @ Hot Water Heater
4	Water Meter Room	Install and Test DCVA on Irrigation Supply
5	Boller Room	Replace DCAP with DCVA and Test Device on Boiler Make Up Supply
6	Boiler Room	Install "Non Potable" Tags on 2 x Hose Connections on Boiler Loop
16	North Side of Building	Install HCVB on Hose Connection
17	South Side of Building	Install HCV8 on Hose Connection

 Owners was hesitant to complete a cross connection survey as they felt washrooms were their only water uses. Hazards to their drinking water system they were not aware of were identified on the CCS.

