



TOWN OF GEORGINA

26657 Civic Centre Rd., R.R.#2, Keswick, Ontario L4P 3G1

SAFE DRINKING WATER ACT

2011 ANNUAL REPORT

Regulations passed under the *Safe Drinking Water Act* require owners of municipal water systems to publish annual reports describing the operation of the water system and the results of testing required to ensure that residents are provided with safe drinking water. This report covers the period from January 1st to December 31st, 2011.

The source of supply for the Keswick-Sutton system is Lake Simcoe. The Region of York owns and operates a water treatment plant at Clarlyn Drive and Metro Road and another plant on Kennedy Road in Willow Beach. Water is taken from Lake Simcoe at each plant and undergoes a complete treatment process consisting of screening, filtration, taste and odor control, disinfection and fluoridation before being supplied to the water distribution system. The Region carries out extensive testing at each plant and residents may wish to obtain a copy of the annual report for these plants by contacting the Region at 905-895-1200, extension 3000, accessing their web site at http://www.york.ca/Services/Water/Water+Quality+Reports/default_Annual_WQ_Reports_New.htm or obtaining a copy at the Town of Georgina Civic Centre. The York Region reports describe the treatment process in more detail and the chemicals used in the process. The Region also owns and operates a water storage tank at Westpark Heights, one at Deer Park Drive in Keswick and a third tank on Dalton Road in Sutton.

The Town of Georgina owns and operates the water distribution system that receives water from the Region of York treatment plants. The Town is responsible for operating and maintaining the watermains, valves, booster pumping stations, hydrants, meters and service connections that comprise the distribution system. The Town does not add chemicals to the water flowing through the distribution systems.

Licensed Town Operators take water samples from various premises serviced by the Keswick- Sutton system every week. Each sample is delivered to the York-Durham Laboratory in Pickering to test for the presence of bacteria. This certified laboratory is owned jointly by the Region of York and Durham and is staffed by employees of the Region of Durham.

Microbiology Testing from January 1 to December 31, 2011

A total of eight hundred and forty (840) samples from the Keswick-Sutton distribution system were analyzed for the presence of coliform bacteria between January 1st and December 31st, 2011. All samples tested negative.

Three hundred and eighty-seven (387) samples were analyzed by using the heterotrophic plate count method to check for background colonies within the water which determines the quality of water in terms of bacterial content. This test is used as a supplement to the routine analysis for coliform bacteria.

Results from two hundred and seventy-nine (279) heterotrophic plate count (HPC) samples showed readings of less than one. One hundred and three (103) HPC samples showed low readings and four (4) HPC sample showed readings of 160 to 360 units but well within the maximum allowable HPC count of 500 units. One (1) HPC sample showed a count of 750. HPC is not a reportable adverse parameter under Ontario Regulation 169/03 of the *Safe Drinking Water Act*.

Chlorine Residual

The Town is also required to monitor chlorine residual concentrations to ensure that bacteria does not develop within the systems. Five thousand one hundred and sixty-six (5166) samples were analyzed. All samples had sufficient chlorine residual levels.

Leading Testing

The Town was not required to test for lead in 2010. Reduced lead sampling for Round One takes place between December 15, 2011 and April 15, 2012, however, no samples were taken in 2011. Round One sampling commenced on January 23, 2012. Reduced lead sampling for Round Two will take place between June 15, 2012 and October 15, 2012.

Results from samples in 2009 were reported in the 2009 Annual Report as follows:

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	145	0.0001 – 0.0055	0
Distribution	29	0.0001 – 0.0032	0

Other Testing

Twelve (12) samples were tested for trihalomethanes in the Keswick area and the Sutton area with the average levels being 65ug/L and 60ug/L respectively compared to a maximum allowable of 100ug/L.

Detailed lab reports are available for review at the Civic Centre in the Department of Engineering and Public Works.

The *Safe Drinking Water Act* requires that a Summary Report listing the requirements of the Act, the Regulations, the system's approval and any order that the system failed to meet at any time during 2011 be given to the members of Municipal Council prior to March 31, 2012. This report will be submitted as required and will be available in the Office of the Clerk on April 1, 2012.

Private Wells

Residents that obtain water from private wells are encouraged to take samples periodically to determine if their water is safe to drink. Sample bottles may be obtained at the Civic Centre and returned to the same location for testing by the Ministry of Health laboratory at no cost.

Please contact Robert Fortier, Operations Manager (905-476-4301) should you have any questions or require further information.

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