

Quarterly Report for the Camilla Water Treatment Plant and Distribution System

**Operated by the Ontario Clean Water Agency (OCWA)
under contract to the Township of Essa
for the period ending June 30th, 2001**

Introduction:

This report is a summary of the last quarter's water quality, published in accordance with Ontario's Drinking Water Protection Regulation. It includes important information regarding the source of your water, analytical test results, and how it compares to standards set by the Province. If you have any questions regarding this report, please contact our Client Services Representative listed in section 3 below.

During the quarter, the Ontario Clean Water Agency (OCWA) conducted more than 300 tests for water quality parameters. Of those tests, one sample was found to exceed the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. As a result we actively undertook the following remedial actions:

Resampling

Compliance With Provincial Regulations:

OCWA operates your water system in accordance with provincial regulations. Here is how we do it:

- **Use of Accredited Labs:** Analytical tests to monitor your water quality are conducted by a laboratory audited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) and accredited by the Standards Council of Canada (SCC). Accreditation ensures that the laboratory has acceptable laboratory protocols and test methods in place. It also requires the laboratory to provide evidence and assurances of the proficiency of the analysts performing the test methods.
- **Operation by Licensed Operators:** Your water treatment plant and distribution system is operated and maintained by the OCWA's competent and licensed staff. The mandatory licensing program for operators of drinking water facilities in Ontario is regulated under the Ontario Water Resources Act (OWRA) Regulation 435/93. Licensing means that an individual meets the education and experience requirements and has successfully passed the certificate exam.

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- **Sampling and Analytical Requirements:** OCWA follows a sampling and analysis schedule required by OWRA Regulation 459/00, the Ontario drinking Water Standards. More information on sampling and analysis including results are available in this report and from your municipal office.
- **Adherence to Ministry Guidelines and Procedures:** To ensure the protection of the public health and operational excellence, the OCWA adheres to the guidelines and procedures developed by the Ministry of Environment and the Ministry of Health.

System Information:

Facility Name:	Camilla St. Water Treatment Plant	Client Services:	Peter Rupcic
Total Design Capacity	650m ³ /day	Phone Number	(519)770-5699
Raw Water Source	Three wells	E-mail Address	prupcic@OCWA.com
Disinfection Method	Sodium hypochlorite	Operations Manager	Wayne White
Municipal Location	Township of Essa	Phone Number	(705)429-2525
Service Area	Village of Thornton	E-mail Address	wwhite@OCWA.com
Service Population	342		
Operational Description: The Camilla Water Treatment System provides potable water to 112 connections in the section of Innisfil Township taken over by Essa Township in January 1994. Originally constructed in the mid 1980's, it continues to service approximately 110 homes. Three drilled wells equipped with submersible pumps supply up to 650 m ³ per day of potable water. The control building houses twelve 450 litre pressure tanks as well as a hypchlorination system which ensures adequate disinfection. An on-line chlorine analyzer measures chlorine residual and a 3" Rockwell Turbo Flow Meter which measures flow to the system. A standby diesel generator is available as a back-up power source in the event of a power failure.			

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Analytical Test Results:

Micro biological Parameters	April	May	June	Quarter Summary	MAC / IMAC
Total Coliform counts/100mls					
Number of Samples					
Number of Detectable Results					
Min / Max					0
Exceedences					
E. Coliform counts/100mls					
Number of Samples					
Number of Detectable Results					
Min / Max					0
Exceedences					
Background					
Number of Samples					
Number of Detectable Results					
Min / Max					0-500
Exceedences					
Typical Source of Contamination	Microbial contaminants, such as viruses and bacteria, may come from septic systems, agricultural livestock operations, wildlife, and wastewater treatment plants.				
Comments: On March 28th a Distribution sample from 220 Thorton St.had a Total Coliform Count of 1. This was reported as per Reg. 459/00.					

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Operational Parameters	April	May	June	Quarter Summary	MAC / IMAC
Chlorine Residual					
Number of Samples	31	28	31	90	
Number of Detectable Results	31	28	31	90	
Min / Max	.40/1.94	.29/2.03	.06/1.49		0.20-4.0
Exceedences	0	0	0	0	
Turbidity					
Number of Samples	31	28	31	90	
Number of Detectable Results	31	28	31	90	
Min / Max	.02/.13	.03/.33	.04/.95		1
Exceedences	0	0	0	0	
It should be noted that, online analyzers have been installed in order to monitor and record these parameters continuously. The information above represents samples taken from continuous monitoring and grab samples.					

Volatile Organic Parameters	April	May	June	Quarter Summary	MAC / IMAC
Typical Source of Contamination	Organic Chemical Contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.				
Comments: VOLATILE ORAGANICS WERE TESTED IN JANUARY AND NO EXCEEDENCES OCCURRED IN THIS QUARTER.					

Inorganic Parameters	April	May	June	Quarter Summary	MAC / IMAC

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Typical Source of Contamination	Inorganic contaminants, such as salts and metals, can be naturally-occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil & gas production, mining.
Comments: INORGANIC PARAMETERS WERE NOT TESTED DURING THIS QUARTER.	

Pesticides and PCB Parameters	April	May	June	Quarter Summary	MAC / IMAC
Typical Source of Contamination	Pesticides and herbicides, may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.				
Comments: PESTICIDES AND PCB PARAMETERS WERE TESTED IN JANUARY AND NO EXCEEDENCES OCCURRED IN THIS QUARTER.					

Radiological Parameters	April	May	June	Quarter Summary	MAC / IMAC
Typical Source of Contamination	Man made or natural elements emitting radiation in the form of alpha, beta or gamma particles				
Comments: RADIOLOGICAL PARAMETERS WERE NOT TESTED FOR IN THIS QUARTER.					

Discussion of Analytical Results:

A sample taken on the 27th of March had a Total Coliform count higher then the MAC set out in the ODWS, resample was within the limits. No other analytical testing exceeded the MAC/IMAC.

Availability of Analytical Test Results:

The certificate of approval from the Ministry of the Environment, and Regulation 459/00 set out monitoring requirements for your water. The tables above summarize all the results required for inclusion in quarterly reports. Your water is extensively tested for the presence of dozens of

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compounds. Some compounds, not listed above, may be present in low concentrations and their presence does not necessarily mean that the water poses a health risk. Results of all analytical tests are available through your municipal office.

Definitions and Abbreviations:

- **MAC** - Maximum Acceptable Concentration.
- **IMAC** - Interim Maximum Acceptable Concentration.
- **Coliform Bacteria** - a group of commonly occurring rod shaped bacteria. Their presence in a water sample is indicative of inadequate filtration and/or disinfection.
- **Fecal Coliform Bacteria** - refers to a subgroup of coliform bacteria present in the digestive system of warm blooded animals and humans.
- **Heterotrophic Plate Count** - a method of measuring bacterial content in water samples. Also known as Standard Plate Count.
- **Organic Parameter** - a group of chemical compounds containing carbon.
- **Inorganic Parameter** - a group of chemical compounds not containing carbon.
- **Raw Water** - Surface or ground water available as a source of drinking water that has not received any treatment.