

THE YORK CENTRE FOR CHILDREN, YOUTH AND FAMILIES

ANNUAL REPORT Under Water Works Reg. 170/03

Period Covered: March 31 2008-March 31st 2009

Identifying Data

The York Centre for Children, Youth & Families
11225 Leslie Street
Richmond Hill, ON L4S 1N5

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Well Location – Part of Lot 29, Concession 3, Municipality of York

Water Works Registration # 260008684

Ministry of the Environment File # ENRP 505-00152

Background

The York Centre for Children, Youth & Families is an Accredited Children's Mental Health Centre providing Day Treatment and other mental health services to clients in the York Region. There is no residential component to our services.

Since the late 1970's, the Leslie Street location was leased from the York Region District School Board. Through NEOTEC Water Treatment Company, regular water sampling was completed.

In December 2001, The York Centre purchased the property from the York Region District School Board and assumed the water sampling, still using NEOTEC Water Treatment Services.

The source of water is from a well that was drilled on February 26, 1996 to replace an old well that was sealed and capped.

The new well is 173 feet deep and has supplied a continuous source of clean water (records are available). In order to come into compliance with Reg. 505/01, the Jones Consulting Group Ltd., Planners, Engineers and Surveyors, Ste. 100 – 300 Lakeshore Drive, Barrie, Ontario L4N 0B4, file # P02120 were retained and the Engineer's Report was submitted to The Ministry of the Environment on April 15, 2002. Recommendations for Waterworks Improvement were made and undertaken.

A Compliance Calendar for Periodic Reporting and Monitoring was established.

As of October 2008 the expansion of Phase 1 of our new building was completed. The old water system was removed and a new water works system was installed in the new building by Neotec.

In October of 2008 The York Centre no longer required daily turbidity readings as outlined in new water work regulations 170/03

Current Water Treatment System

- Chlorine assisted Greensand iron filter, “ 12 x 52”
- Duplex 5 micron cartridge sediment filtration
- Duplex NFS ultraviolet disinfection units with UV intensity monitors and safety solenoid valves.
- 60,000 grain water softener for hot water only

Summary of Results

Before reading the attached chart, the following are terms that need explanation:

MAC – Maximum Acceptable Concentration

This is a health-related and Ontario drinking water standard established to detect contaminants that may have adverse effects on one’s health, if above a certain concentration.

Parameter

This is a substance that is sampled and analyzed for in the water.

mg/l – Milligrams per litre

This is the measure of the concentration of a parameter in the water.

Microbiological Parameters

Total Coliform (microbiological)

The coliform group of bacteria has been the most commonly used indicator of water quality. The coliform group consists of all aerobic and facultatively anaerobic, gram-negative, oxidase-negative, non-spore forming, rod-shaped bacteria that ferment lactose in a broth medium with gas formation within 48 hours at 35 degrees Celsius. The presence of these bacteria in drinking water shows inadequate filtration/disinfection.

Escherichia coli and/or fecal coliforms should not be detected in treated drinking water samples. It is an indication of recent sewage contamination in the drinking water system. Escherichia coli or E-coli is the fecal coliform most frequently associated with recent fecal pollution.

Heterotrophic Plate Count (microbiological)

The HPC (heterotrophic plate count) is a method of measuring the aerobic bacterial content in water. Samples are incubated for 48 hours on a selected nutrient at 35 degrees Celsius. Levels of bacteria detected by this test should not exceed 500 colonies per ml of sample.

Raw Water

Surface or ground water that is available as a source of drinking water, but has not received any treatment.

The York Centre for Children, Youth & Families

SUMMARY OF RESULTS
March 31, 2008 – March 31, 2009

Microbiological Parameters	MAC	Sampling Dates	# of Samples	Range
Total Coliforms Counts/100 ml (Weekly Samples)	*0 – would be an indication of adverse water quality	March 31, 2008 to March 31, 2009	52	84685
E-Coli Counts/100 ml (Weekly Samples)	*0 –	March 31, 2008 to March 31, 2009	52	84685
Heterotrophic Plate Counts Counts/1ml (Weekly Samples)	500	March 31, 2008 to March 31, 2009	52	0
Turbidity (NTU) Related to Quality (Taken Daily)	1.0	March 31, 2008 to March 31, 2009		N/A
Raw Total Coliforms Counts/100 ml (Monthly Sample)	Water 0* - would be an indicator of adverse water quality	Samples First sample of each month March 31, 2008 to March 31, 2009		0
E-Coli Counts/100 ml (Monthly Sample)	0* - would be an indicator of adverse water quality	First sample of each month March 31, 2008 to March 31, 2009		0

admin/property/water/summary of results-31-Mar-09

Summary

During this period the York Centre had one adverse water result. This occurred on October 16th 2008 which indicated the presence of total coliform and ecoli.bacteria. All actions as outlined by York Region Public Health were completed including a refrain from using the water supply. New water samples were immediately taken and on October 21st the water ban was lifted by Public Health.

Notice of availability will be made at the Annual Meeting in June 2009 and posted on The York Centre website www.theyorkcentre.ca

Mary Beth McLeod
Executive Director
The York Centre for
Children, Youth & Families

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