

**Ontario Regulation 170/03
2010 Summary Report For Municipalities - Schedule 22
Beachburg Water Treatment Plant**

Act, Regulations, C of A, or Order, Unfulfilled Requirements

Reg. 170/03

Schedule 16: Section 16 - 3(1)

Two adverse water incidents, as prescribed under this section, occurred in 2010.

A distribution system sample, taken at 66 Robertson Drive on March 30, 2010, tested at 4 Total Coliform counts/100 ml which is above the MAC. A resample was taken by plant staff on March 31, 2010 and the test result of 0 counts/100 ml which is below the MAC was reported to the Ministry of the Environment and the Medical Officer of Health as required under Schedule 17 of Reg. 170/03.

A distribution system sample, taken at 15 Morris Street on April 6, 2010, tested at 2 Total Coliform count/100 ml which is above the MAC. A resample was taken by plant staff on April 8, 2010 and the test result of 0 counts /100 ml which is below the MAC was reported to the Ministry of the Environment and the Medical Officer of Health as required under Schedule 17 of Reg. 170/03.

Schedule 16: Section 16 - 4

One adverse water incident, as prescribed under this section, occurred in 2010.

A complaint of strong chlorine smell in tap water was received from a residence at 17 Morris Street on August 12, 2010. The residence was one of six connected to a temporary water line during construction of new water mains. A water sample taken by plant staff tested at 78 mg/l free chlorine residual which is above the MAC of 4.0 mg/l. Reports were made to the Ministry of the Environment and the Medical Officer of Health as required under Schedule 17 of Reg. 170/03. Corrective action consisting of flushing the temporary water line was conducted. Resamples were taken at the residences on the water line and test results ranging between 0.76 mg/l and 1.06 mg/l free chlorine residual which are below the MAC were reported to the MOE and MOH.

Certificate of Approval

None

Water Flow Rate Summary

The Certificate of Approval for the Beachburg Water Treatment Plant specifies a maximum permissible flow rate of 973 cubic meters per day.

Quantities and flow rates for 2010 were as follows:

Monthly Flow Rates Cubic Meters

	Total Flow	Average Daily Flow	Maximum Daily Flow	Daily Peak Flow Rates
Jan	10913	352	384	625
Feb	9715	347	395	611
Mar	10638	343	384	585
Apr	9335	311	366	590
May	13977	451	700	970
Jun	11295	377	476	966
Jul	13205	440	750	962
Aug	12879	415	546	965
Sep	12346	412	511	949
Oct	12071	402	515	577
Nov	11723	391	459	674
Dec	13664	441	528	827

Total annual flow	- 141761 cubic meters
Annual Average Daily Flow	- 390 cubic meters
Maximum Daily Flow	- 700 cubic meters
Maximum Daily Peak Flow Rate	- 970 cubic meters per day

As can be seen in the above summary the annual average daily flow of 390 cubic meters is equivalent to 40.1 % of the plant rated capacity of 973 cubic meters per day. Similarly the maximum recorded daily flow of 700 cubic meters is equivalent to 71.9 % of the plant rated capacity of 973 cubic meters per day. As well, the maximum daily instantaneous peak flow rate of 970 cubic meters per day is within the maximum permitted instantaneous rate of 973 cubic meters per day.

This report fulfills the requirements for the 2010 annual summary report for municipalities as required under Schedule 22 of Ontario Regulation 170/03.

February 25, 2010

David Simmons

For
Plants Department
Township of Whitewater Region