

Director of Operations

January 10, 2008

The Mayor and Members of Council  
Municipal Offices  
45 Hillside Drive North  
Elliot Lake, Ontario  
P5A 1X5

ATTENTION: Mayor and Member of Council

Your Worship Mayor Hamilton and Members of Council:

**RE: ELLIOT LAKE WATER TREATMENT PLANT  
SUMMARY REPORT FOR MUNICIPALITIES  
Municipal: Large Residential**

Please find attached the 2007 Summary Report for the Elliot Lake Water Treatment Plant. This report has been prepared in accordance to the guidelines set out in Schedule 22 of the Safe Drinking Water Act, 2002 (Ontario Regulation 170/03).

As per the regulation, this report is for the period from January 1, 2007 to December 31, 2007.

Any questions or concerns should be directed to the undersigned.

Yours truly,

R. deBortoli  
Director of Operations

RD:jc

# ELLIOT LAKE WATER TREATMENT PLANT

## **Compliance Report**

Section 18 of the Safe Drinking Water Act requires the system operator to report adverse test results immediately after the result is obtained. An adverse test result constitutes a parameter failing to meet, at a minimum, the requirements of the prescribed drinking water standards established for that parameter, under the Ontario Drinking Water Standards. Adverse test results must be identified in the Summary Report.

There were no adverse test results in 2007.

## **Corrective Action:**

Adverse test results – none required.

The Ministry of the Environment carried out a plant inspection on September 18, 2007. The water systems (treatment and distribution) were found to be compliant with regulatory requirements.

MOE Inspection – none required.

## **Terms and Conditions of Certificate of Approval**

*Performance:* The Elliot Lake Water Treatment Plant meets the requirement of the Ontario “Drinking Water Standards.” Disinfection of treated water is achieved as per Ministry Procedure B13-3. Backwash/wastewater effluent discharge suspended solids are below the 25 mg/l annual average.

*Monitoring and Recording:* Flow meters, chlorine analyzers and turbidimeters are calibrated per manufacturer’s specifications and certificates are provided where necessary.

*Operations and Maintenance:* Maintenance of the water treatment plant is conducted and controlled through a preventive maintenance program. All operators are certified with at least one operator certified at the designated level of the facility. All treatment chemicals meet A.W.W.A. (American Water Works Association) quality criteria for drinking water. The following are the chemicals used and dosage rates:

Chemical	Approx. Dosage
Hydrated Lime	15 mg/l
Hydrofluosilicic Acid	3.5 mg/l
Chlorine	1.8 mg/l
Polyhydroxyaluminum Chloride	7.0 mg/l

Contingency plans with regard to emergencies, upset conditions and breakdowns are posted in the operator control room and contained in the Plant Operations Manual. Detailed drawings of the facility are centrally located in the Process Control Room.

## ELLIOT LAKE WATER TREATMENT PLANT

### 2007 MONTHLY FLOWS

MONTH	MINIMUM FLOW/DAY (m <sup>3</sup> )	MAXIMUM FLOW/DAY (m <sup>3</sup> )	AVERAGE FLOW/DAY (m <sup>3</sup> )	TOTAL FLOW (m <sup>3</sup> )	INSTANTANEOUS PEAK FLOW (m <sup>3</sup> )
<b>JANUARY</b>	7,094	12,622	9,125	292,865	18,743
<b>FEBRUARY</b>	7,181	9,635	8,378	242,224	15,803
<b>MARCH</b>	7,094	9,865	8,185	262,498	16,474
<b>APRIL</b>	6,224	9,128	7,962	247,232	16,031
<b>MAY</b>	6,406	13,375	9,191	296,102	19,294
<b>JUNE</b>	6,975	15,119	10,441	328,737	20,113
<b>JULY</b>	6,733	14,827	9,212	299,879	21,455
<b>AUGUST</b>	7,417	12,449	9,824	320,394	22,201
<b>SEPTEMBER</b>	6,131	8,139	7,234	229,418	16,206
<b>OCTOBER</b>	5,862	8,153	7,005	228,682	19,415
<b>NOVEMBER</b>	5,640	7,863	6,843	215,708	16,065
<b>DECEMBER</b>	5512	8735	6941	215,174	15,910
<b>TOTAL</b>				3,178,913	

NOTE: The maximum rated capacity of 28,400 m<sup>3</sup>/day as specified in the facility's Certificate of Approval was not exceeded for the period of this report.