

## **2. STATEMENT OF COMPLIANCE AND NON-COMPLIANCE**

### **I. SOUTH PEEL (Lakeview WTP & Lorne Park WTP)**

In the year 2006, the Region of Peel has complied with the terms and conditions of all Certificates of Approval, Permits to Take Water, Safe Drinking Water Act, 2002, Ontario Drinking-Water Quality Standards Regulation (O.Reg.169/03) and the Drinking-Water System Regulation (O.Reg.170/03) with the exception of the following:

#### **(a) Lakeview WTP**

##### **1) EPA and Condition 3.11 under Certificate of Approval Number 3678-6KXXXL**

Adopted by Ontario Drinking Water Regulation (O.Reg170/03) under the *Safe Drinking Water Act*, the Certificate of Approval (CofA) for municipal drinking water system is a legislated document with specific regulatory requirements to ensure source water protection.

Under Condition 3.11 of the CofA, the Lakeview Water Treatment Plant (WTP) surface water system is not permitted to discharge a contaminant into the natural environment that causes or is likely to cause an adverse effect, and discharge any material of any kind into or on any shore or bank that may impair the quality of the water of any waters.

In 2006 the Lakeview WTP continued environmentally sound operations under the EPA and the CofA with the exception of January 12, 2006, when a food-grade lubricant leaked from a pump and subsequently entered the shore of Lake Ontario. Immediate corrective actions included the set up of spill containment near the plant outfall, collection of surface and subsurface lake water samples, as well as treated water samples. The operational adjustments to the pumps and spill control systems have since been implemented to mitigate any future occurrences and to protect the natural environment. The incident was reported to the Ministry of the Environment Spills Action Centre and the Region of Peel's Environmental Control department and the corrective actions taken were deemed satisfactory.

##### **2) Condition 4.1 under Certificate of Approval Number 3678-6KXXXL**

Condition 4.1 of the Lakeview WTP CofA requires the drinking water system to maintain flow rates below the maximum rated capacity and net production volume. In 2006, the net production remained below the limit; however, on four (4) separate dates, on May 26, June 14, August 10 and September 15, 2006, the peak flows surpassed the maximum flow rates. These exceedences were related to the temporary operation, testing and commissioning of new plant equipment.

## **(b) Lorne Park WTP**

### **1) Ontario Regulation 170/03 – Sections 6-5(3) and 16-6(3)**

Under Sections 6-5(3) and 16-5(3) of the Ontario Drinking Water Regulation (O.Reg170/03) test results from all continuous monitoring equipment must be examined within 72 hours and any results that exceed the standards must be immediately reported to the Ministry of the Environment (MOE) and the Medical Officer of Health (MOH).

During 2006, the Lorne Park Water Treatment Plant operation was continuously monitored and alarmed through the Central Computer Control System (SCADA); however, on February 7 and June 12, 2006, when the filter effluent turbidity exceeded the operational range, the Operating Authority failed to immediately report the exceedances to the system owner, MOE and MOH as at that time they did not consider the events reportable. Immediate process changes included taking the filters off line and filter backwashing.

The exceedances were reported to the authorities at a later date, after a detailed analysis of the overall plant performance was conducted.

The frequency of reviewing all test results has since been improved and enhanced with filter operation programming to meet filter performance criteria. Further improvements were pursued to more effectively display the result trends on continuously monitoring SCADA system.

### **2) EPA and Condition 3.11 under Certificate of Approval Number 4676-6FTHAA**

Adopted by reference by the Ontario Drinking Water Regulation (O.Reg170/03) under the Safe Drinking Water Act, the Certificate of Approval (CofA) for municipal drinking water system is a legislated document with specific regulatory requirements to ensure source water protection.

Under Condition 3.11 of the CofA, the Lorne Park Water Treatment Plant (WTP) surface water system is not permitted to discharge a contaminant into the natural environment that causes or is likely to cause an adverse effect, and discharge any material of any kind into or on any shore or bank that may impair the quality of the water of any waters.

In 2006 the Lorne Park WTP wastewater treatment facility continued environmentally sound operations under the EPA and the CofA with the exception of April 21 and July 2, 2006, when during the GAC filter media replacement project the Lorne Park Water Treatment Plant wastewater facility discharged chlorinated water into the Lake Ontario with a peak free chlorine residual of 3.0 mg/L and 0.45 mg/L respectively.

Corrective actions taken included: the stop of flow of chlorinated effluent and a re-evaluation of processes and implementation of procedural changes. The Ministry of the Environment was immediately notified of the event and was satisfied with the corrective action.

The above oversights never compromised the integrity of the drinking water supply or public health.

## II. North Peel (Municipal Groundwater Waterworks)

**Caledon East Well Supply**  
**Inglewood Well Supply**  
**Cheltenham Well Supply**

**Caledon Village Well Supply**  
**Alton Well Supply**  
**Palgrave Well Supply**

In the year 2006, the Region of Peel complied with the terms and conditions of all Certificates of Approval, Permits to Take Water, Safe Drinking Water Act, Ontario Drinking-Water Quality Standards Regulation (O.Reg.169/03, amended to 248/06) and the Drinking-Water Systems Regulation (O.Reg.170/03, amended to 402/06), with the exception of two operational conditions, Condition 5.4 (Calibration of flow measuring devices) of Caledon Village and Palgrave Well Supply Systems Certificates of Approval, 4378-6J9PVR and 6019-6REQJZ respectively, and Schedule A (Permitted water takings) of Cheltenham's Permit to Take Water 99-P-3015.

Condition 5.4 stipulates flow measuring devices must be calibrated at least once every year during which the drinking-water system is in operation, if the manufacture's instructions do not indicate how often to check and calibrate the equipment.

Calibrations of all flow measuring devices within the drinking water systems are conducted by a second party and are scheduled in advance each year. The construction phase of the municipal well upgrades of Caledon Village Well number 4 and Palgrave well numbers 2 and 3 was underway preventing the flow meter calibration from being completed as originally planned. The flow meter calibration was rescheduled and completed in September for Caledon Village well 4 and Palgrave well 2 and October for Palgrave well 3 however, more than 12 months had elapsed between calibration dates.

Permitted water takings found in Schedule A of Cheltenham's Permit to Take Water states the maximum amount of water taken per day is 500 cubic meters (m<sup>3</sup>). Due to a failure to dispatch a low reservoir alarm, the Region exceeded its Permit takings by 250m<sup>3</sup> in order to maintain reservoir levels for fire storage and domestic demand.

As a result, the above oversights never compromised public health. Flow measuring devices are installed within the drinking water system to permit continuous measurements and recording of flow rates and daily volumes of water conveyed into the treatment system and distribution system and Permits to Take Water are issued to protect the aquifer.