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REGULATORY REPORTING-
SECTION 11 AND SCHEDULE 22 OF REGULATION 170/03
MUNICIPAL DRINKING WATER SYSTEMS

The Transportation and Works Committee recommends:

- 1. The presentation by Debbie Korolnek, Director, Water and Wastewater, be received; and**
- 2. The recommendations contained in the following report, February 16, 2005, from the Commissioner of Transportation and Works be adopted:**

1. RECOMMENDATIONS

It is recommended that:

1. Transportation and Works Committee and Regional Council, receive the attached Summary Report (*see Attachment 1*) on water supply as required by Schedule 22 of Ontario Regulation 170/03.
2. The Regional Clerk forward copies of the Summary Report to the Clerks of the local municipalities.

2. PURPOSE

This report is to inform members of Transportation and Works Committee and Regional Council that staff have prepared reports as required by Ontario Regulation 170/03 (O.Reg.170/03).

The Annual Report (Section 11) has been placed on the Regional website as well as submitted to the Ministry of the Environment. The Annual Report describes the operation of the York Region Municipal Water Supply and the quality of the water provided to local municipalities.

The Summary Report has also been prepared and will be presented to the members of Transportation and Works Committee and Regional Council, as required by Schedule 22 of O.Reg. 170/03.

3. BACKGROUND

Ontario's Drinking Water Systems Regulation (O.Reg.170/03) made under the Safe Drinking Water Act, 2002, requires that the owner of a municipal drinking water system prepare both Annual Reports and a Summary Report on the operation and quality of water in their system.

The Annual Report addresses the period from January 1, 2004 to December 31, 2004, as specified within Ontario Regulation 170/03 and is available on the Official York Region Web Site and at the offices of the Transportation and Works Department. This report does not need to be officially received by Regional Council.

The Summary Report has been created to advise members of Transportation and Works Committee and Regional Council on the status of their respective water supply system. The Summary Report provides an overview of the operation of the drinking water systems during the calendar year. The Summary Report addresses the period from January 1, 2004, to December 31, 2004.

4. ANALYSIS AND OPTIONS

4.1 Annual Report

Section 11 of Ontario Regulation 170/03 (O.Reg.170/03) requires that an Annual Report be prepared, made available to the public, and submitted to the Ministry of Environment by February 28th of each year.

With the exception of the Ansnorveldt Water Supply system, all of the York Region water supply systems are classified as Large Municipal Residential Systems on the basis that they service more than 100 homes. The Ansnorveldt Water Supply is classified as a Small Municipal Residential System because it serves less than 100 homes.

The Annual Report to address the quality of water delivered to Markham, Richmond Hill, Vaughan (excluding Kleinburg), Aurora and Newmarket is prepared by the City of Toronto. This report is available directly from the City of Toronto, from the official City of Toronto web site and via a link from the Official York Region web site. York Region also tests the water supplied from the City of Toronto for indicators of adverse water quality at the outlet of storage facilities and pumping stations.

Annual Reports have been prepared for York Region's water supply systems as listed in Table 1.

Table 1
York Region Water Supply Systems

Local Municipality	Water Supply System
Town of Aurora	Aurora
Town of Georgina	Keswick
	Georgina
Town of East Gwillimbury	Holland Landing
	Mount Albert
	Sharon/Queensville
Township of King	Ansnorveldt
	King City
	Nobleton
	Schomberg
Town of Newmarket	Newmarket
City of Vaughan	Kleinburg
Town of Whitchurch-Stouffville	Ballantrae
	Stouffville

4.2 Annual Report Content

The format for the Annual Report was established by the Ministry of Environment. A separate Annual Report has been prepared for each water supply system and includes:

- A brief description of the water system.
- A summary of chemical usage for treatment.
- A summary of improvements made to the water systems in 2004
- A summary of water quality testing results for microbiological, inorganic chemical and organic chemical parameters.
- A summary of adverse water quality reports.
- A description of how the Annual Report has been distributed and where the Annual Report and Summary Report required under O.Reg.170/03 Schedule 22, will be located in order to be accessible to the public.

4.3 Overview of Annual Report Findings – Water Quality

The water quality of the water supplies in York Region is tested rigorously in the following ways:

- Continual electronic recording of turbidity of treated water.
- Continual electronic recording of residual chlorine content of treated water.
- Weekly microbiological testing of samples of raw and treated water.
- Quarterly testing of samples of raw and treated water for metals and inorganic chemistry parameters.
- Annual testing of samples of raw and treated water for organic chemistry parameters.

The Region's sampling schedule for chemical testing of organic and inorganic parameters exceeds the minimum requirements of the Ontario Drinking Water Systems Regulation (O. Reg. 170/03). This higher frequency better assists the Water and Wastewater Branch York Region staff in achieving and maintaining water quality objectives.

The microbiological testing program demonstrated that York Region maintains a high level of drinking water quality that meets the Ontario Drinking Water Standards. A very small proportion of the tested samples required a second test for confirmation that, in all cases, has confirmed that the water quality met the standard.

The water quality testing for chemical parameters demonstrated that York Region maintains a high level of quality that exceeds the Ontario Drinking Water Standards for all health-related parameters. Occasional samples contained concentrations marginally greater than the guideline but these results were not duplicated in repeat tests.

4.4 Summary Report

Schedule 22 of Ontario Regulation 170/03 requires that a Summary Report be prepared and submitted to the members of Municipal Council by March 31st of the following year, for each reporting year, for all large and small municipal residential systems. For York Region, a summary report must be prepared for all systems except the south urban system which receives water from the City of Toronto, (the York Water System). The York Water System is classified as a Large Municipal System receiving water from a Large Municipal System (City of Toronto). The summary report for this system is prepared by the City of Toronto.

4.5 Summary Report Content

The Summary Report has been prepared for all of York Region's drinking water systems and includes the following detailed information:

- A list detailing the requirements of the Safe Drinking Water Act (2002) and its regulations.
- The system's approval and any order that the system failed to meet at any time during the period covered by the report and specify the duration of the failure.
- A description of the measures that were taken to correct the failure.
- A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows and daily instantaneous peak flow rates.
- A comparison of the summary referred to above and the rated capacity and flow rates approved in the system's approval.

4.6 Overview of Summary Report Findings

The water supplies in York Region are monitored continuously in relation to the maximum allowable limits dictated by the Ministry of the Environment in the Permits to Take Water, issued for all systems except the York Water System due to its classification as a Large Municipal System receiving from a Large Municipal System.

There were no contraventions of systems' approvals for the daily withdrawal of water during the time period of January 1, 2004 to December 31, 2004.

There have been no Provincial Orders issued by the Ministry of the Environment under the Safe Drinking Water Act (2002) or the Ontario Regulation 170/03 for the period of January 1, 2004 to December 31, 2004.

4.7 Public Information

The Annual Report has been submitted to the Ministry of the Environment as required and is made available to the public at no charge through the Official York Region Web Site and at the offices of the Transportation and Works Department in Newmarket.

York Region's residents will be notified of the publication of the Annual Reports through a semi-annual Transportation and Works Department Newsletter – York Works as distributed by mail.

The Summary Report is being submitted to the members of Transportation and Works Committee with this staff report and to the members of Regional Council by March 31, 2005.

The Summary Report will be made available to the public at no charge through the offices of the Transportation and Works Department in Newmarket.

Copies of both the Annual Report and the Summary Reports will also be distributed to the local municipalities.

5. FINANCIAL IMPLICATIONS

York Region staff have prepared both the Annual Report and the Summary Report.

There were no consulting fees associated with the preparation of either report, as in previous years.

6. LOCAL MUNICIPAL IMPACT

The members of Regional Council and the local municipalities will benefit from the information within Annual Report and the Summary Report. These reports will provide assurance to local municipal councils and staff and to the public at large that York Region is meeting or exceeding all requirements as dictated by the Safe Drinking Water Act and its associated regulations.

7. CONCLUSION

These reports demonstrate that York Region continues to meet prescribed limits and water quality requirements stipulated within the drinking water systems Certificates of Approval, Permits to Take Water, and within the Regulations issued by the Ministry of the Environment.

The Senior Management Group has reviewed this report.

(The attachment referred to in this clause is attached to this report.)