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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, Director, Water and Wastewater, be received; and**
- 2. The recommendations contained in the following report, February 24, 2004, 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 on water supply as required by Schedule 22 of Ontario Regulation 170/03.
2. Staff report back to the Transportation and Works Committee and Regional Council regarding the findings of the third party review of the Summary Reports (Schedule 22 of O.Reg. 170/03) in May 2004.

2. PURPOSE

This report is to inform members of Transportation and Works Committee and Regional Council that staff have prepared the Annual Reports (Section 11) to be 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 as required by Ontario Regulation 170/03 (O.Reg.170/03). This report replaces the Quarterly Water Quality Reports that were required under the previous regulation (O.Reg.459/00).

A Summary Report has also been prepared and will be presented to the members of Transportation and Works Committee and Regional Council, as required by Ontario Regulation 170/03 (Schedule 22). The Summary Report replaces the portion of the Compliance Reports specific to water taking that were required under the Certificates of Approval for each water supply system in York Region.

These reports illustrate that York Region has consistently provided required levels of high-quality drinking water to its municipalities throughout the reporting period.

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 April 1, 2003 to December 31, 2003, as specified within Ontario Regulation 170/03. A Quarterly Water Quality Report was prepared to address the period from January 1, 2003 to March 31, 2003 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. Although a regulation under the Safe Drinking Water Act (2002) regarding Statutory Standard of Care has not been published, the Summary Report is expected to be the underlying communication tool used within the regulation. For this first year, the Summary Report addresses the period from July 1, 2003 to December 31, 2003, as required by the Regulation.

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 28 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 ultimately service more than 100 homes. The Ansnorveldt Water Supply is classified as a Small Municipal Residential System.

The Annual Report to address the quality of water delivered to Markham, Richmond Hill and Vaughan (excluding Kleinburg) 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 performs additional tests on water supplied by the City of Toronto, to ensure that it consistently meets and/or exceeds drinking water standards. The Region tests for indicators of adverse water quality at the outlet of storage facilities and pumping stations. Only one adverse water quality incident was reported in 2003. Follow-up sampling confirmed that this event was an isolated and localized occurrence.

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
	Sutton
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

4.1.1 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 expenses incurred in 2003 to make improvements to the water system.
- 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.

4.1.2 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).

Continual electronic monitoring demonstrates a consistently high standard of water quality.

The nature of electronic monitoring systems results in occasional, localized instances where monitored values temporarily exceed the recommended operating limits. These localized spikes were investigated on receipt of an alarm and appropriate action was taken to ensure that drinking water delivered was safe. This typically included collection of samples to confirm the water quality.

The microbiological testing program demonstrated that the water quality maintains a high standard that meets the Ontario Drinking Water Standards.

The water quality testing for chemical parameters demonstrated that the water maintains a high standard that is better than the Ontario Drinking Water Standards for all health-related parameters.

4.2 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. As Ontario Regulation 170/03 did not come into effect until June 1, 2003, the reporting period covered in this year's report is July 1, 2003 to December 31, 2003, as dictated by the Ontario Regulation 170/03.

With the exception of the Ansnorveldt Water Supply system and the York Water System, all of the York Region water supply systems are classified as Large Municipal Residential Systems on the basis that they ultimately service more than 100 homes. The Ansnorveldt Water Supply is classified as a Small Municipal Residential System and the York Water System is classified as a Large Municipal System receiving water from a Large Municipal System (City of Toronto).

On-going monitoring demonstrates that York Region continues to provide an adequate, sustainable supply of high-quality drinking water to its municipalities.

4.2.1 Summary Report Content

The Summary Report replaces the portion of the Compliance Reports specific to water taking that were required under the Certificates of Approval for each water supply system in York Region. A Summary Report has been prepared and to include all York Region's water supply systems with 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.

4.2.2 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 during the time period of July 1, 2003 to December 31, 2003.

There have been no 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 July 1, 2003 to December 31, 2003.

4.3 Third Party Audit

Audit Services will be undertaking a third party review of the Summary Reports following the practice established for the Compliance Reports prepared in 2003. This third party review is not required by any legislation and reflects York Region's commitment to ensure that water management practices continually meet the highest quality standards.

The findings of this review will be communicated to Transportation and Works Committee and Regional Council in May 2004.

4.4 Public Information

The Annual Report will be submitted to the Ministry of the Environment by February 28, 2004, and be 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 were 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 will be submitted to the members of Transportation and Works Committee on March 3, 2004 and the members of Regional Council by March 31, 2004.

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

A third party audit of the Summary Report has been arranged by Corporate Audit Services and will require the procurement of consulting services in accordance with Council's direction of March 27, 2003 (Clause 3 of Report No. 3 of the Commissioner of Transportation and Works). The cost of this audit is \$5250 plus GST.

6. LOCAL MUNICIPAL IMPACT

The members of Regional Council and the local municipalities, who retail water supply to end customers, will benefit from the Summary Reports, which will be reviewed by a third party. These reports will provide assurance to local municipal councils and staff and to the public at large that York Region is meeting prescribed limits within the Permits to Take Water issued by the Ministry of the Environment.

7. CONCLUSION

York Region consistently provides a safe, clean, sustainable source of high-quality drinking water to its municipalities. For the reporting period, all municipal demand was met.

Along with the preparation and submission of the Annual Reports, these reports further demonstrate that York Region continues to meet prescribed limits within the Certificates of Approval, Permits to Take Water, and Regulations issued by the Ministry of the Environment.

The Senior Management Group has reviewed this report.