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WATER AND WASTEWATER SUPPLY AND DEMAND ANNUAL MONITORING REPORT

The Planning and Economic Development Committee recommends the adoption of the recommendation contained in the following report dated August 23, 2007, from the Commissioner of Planning and Development Services and the General Manager of Water and Wastewater:

1. RECOMMENDATION

It is recommended that the Regional Clerk forward a copy of this report and the Water and Wastewater Supply and Demand Monitoring Report (*Council Attachment 1 dated September 2007*) to the Clerks of the local municipalities in York Region.

2. PURPOSE

This report has been prepared to update and inform the Committee and Council on the Water and Wastewater Supply and Demand Annual Monitoring Report (*see Council Attachment 1*). The report tracks, on an annual basis, the available capacity supply and demand on water and wastewater systems.

3. BACKGROUND

In September 2005, staff prepared the first Water and Wastewater Supply and Demand Monitoring Report. The focus of this Report was to monitor growth in the serviced areas relative to the existing and future servicing capacity of the infrastructure in those areas. This report provided guidance in the development review process with respect to the capacity issues related to population growth, and tracked the timing of proposed new infrastructure.

The report was intended to be updated on a regular basis to remain current with the five year planning horizon.

This release of the Supply and Demand Monitoring Report covers the water and wastewater supply and demand in York Region to the year 2011 for each of the nine municipalities.

4. ANALYSIS AND OPTIONS

The Water and Wastewater Master Plans are updated every five years, and the Water and Wastewater Supply and Demand Annual Monitoring Report verifies the demand or the population growth and the capacity of the infrastructure systems on a yearly basis. The Water and Wastewater Supply and Demand Monitoring Report provides a description of the current and short-term (up to 2011) water and wastewater servicing supply and demand status of the nine area municipalities. This report documents, as far as possible, the water and wastewater supply and demand by distinct service areas. The document verifies that the observed growth is in sync with the progress of ongoing capital plan projects in order to meet the current Regional commitment for servicing up to 970,000 people. It will also provide a basis for water and wastewater planning staff to provide comments on the water and wastewater aspects of development applications and become a reference document for regional and municipal technical staff, the development industry and regulatory agencies.

The function of this report is not to recommend or establish the release of additional capacity, adjust population forecasts or identify allocation priorities. Decisions on timing and release of additional capacity will be made through the involvement of both Planning and Transportation and Works Departments through the capacity allocation Protocol which has been developed in consultation with the area municipalities. In addition, the Water and Wastewater Infrastructure Status Report of the Transportation and Works Committee that is updated periodically will provide the status of priority infrastructure projects identified as triggers for the release of the required capacity. Also, the Water and Wastewater Monitoring Report does not identify the infrastructure required to service the predicted growth in the longer term; the water and wastewater master plans, which are updated from time to time, will recommend the required infrastructure and phasing.

4.1 Summary of Findings: Water

1. Demands from the Toronto and Peel water supply systems are lower than projected and within the agreement limits. The observed population on the York Water System including the Yonge Street Aquifer in 2006 is approximately 815,000* which is well within the planning projections used by the 2004 Long-Term Water Master Plan. The 2006 theoretical maximum day demands on Toronto and Peel Systems are within the agreement limits of 460 ML/day and 33.6 ML/day respectively. The progress of the Region's capital plan water projects is in agreement with the proposed growth on these systems.
2. The actual serviced populations reached by the year 2006 in the communities with stand-alone systems are also within the planning forecasts utilized by the 2004 Master Plan. The 2006 theoretical maximum day water demands in these water systems is generally within the supply capacity of the existing wells. The Region's capital plan water projects progress is in sync with the observed or proposed growth in these communities.

4.2 Summary of Findings: Wastewater

1. At mid-year 2006, the population serviced by the YDSS, including Peel diversion has reached approximately 816,000*. Since York Region's share of Duffin Creek WPCP is 970,000, the 2006 population is well within capacity limits. Based on the updated forecasts, the mid-year 2011 projected population on the YDSS is also within the current Regional commitments. The progress of the Region's capital plan wastewater projects is in conformity with the observed and projected growth on the YDSS.
2. Growth in all the stand-alone wastewater serviced communities in the Region is currently within the planned projections. The proposed or ongoing Regional wastewater projects have adequately addressed the need for additional capacities required in these systems within the Region's current capital plan.

4.3 Relationship to Vision 2026

One of the goals set by Vision 2026 includes having effective, efficient and environmentally sensitive transportation, waste management and water systems. One of the Council initiatives is the publication of *The Water and Wastewater Supply and Demand Monitoring Report*. The report is one step in following and tracking the Region's growth, where sufficient infrastructure and supply will be needed. This report is therefore consistent with the priorities previously set by Vision 2026.

5. FINANCIAL IMPLICATIONS

This report does not have any direct financial impacts.

6. LOCAL MUNICIPAL IMPACT

The Annual Monitoring Report provides detailed information on the capacity of the Regional water and wastewater systems. The local municipalities benefit from this report by having additional information on system performance and the influence of growth in the Region.

7. CONCLUSION

The Region has adopted an approach to water and wastewater supply and demand management through the release of an annual monitoring report. This report assists staff in tracking allocation and system capacity and increases the understanding of the Regional water and wastewater systems.

For more information on this report, please contact Jhapendra Pokhrel, Water and Wastewater Planning Engineer, Infrastructure Planning Branch at 905-830-4444 ext. 1597 or Jhapendra.pokhrel@york.ca.

The Senior Management Group has reviewed this report.

*(*Sections 4.1.1 and 4.2.1 of this clause, and the attachment referred to in this clause, were updated following the September 5, 2007 Committee meeting to reflect the most recent figures. The revised attachment is attached to this report.)*