



## **Appendix E**

Summary of Previous Studies and Class EAs  
for Servicing the Upper York Area



## Table of Contents

	<b>Page</b>
<b>1.0 Previous Findings and Recommendations for Servicing Growth</b>	<b>1</b>

## List of Tables

	<b>Page</b>
Table E.1      Summary of Previous Studies and Class EAs for Servicing the Upper York Area	2



## Section 1.0 Previous Findings and Recommendations for Servicing Growth

Over the past twenty years or so, York Region has carried out numerous sewage servicing Municipal Class EAs and studies relating to planned growth in the upper York area. These previously completed Class EAs and studies generally looked at the need, considered various options for accommodating growth, and made recommendations on how best to service this growth. The majority of these Class EAs and studies recommended or determined that the preferred servicing solution for additional growth in the upper York area involved an expansion of the YDSS. **Table E.1** provides a summary of these previous studies and Class EAs, along with objectives and relevant findings and recommendations. The report titles and chronology were intended for information purposes and are based on the documentation available at the time of writing.

**Table E.1: Summary of Previous Studies and Class EAs for Servicing the Upper York Area**

Class EA/Study	Objective	Relevant Findings/Recommendations
Town of East Gwillimbury, Wastewater Treatment Strategy - Holland Landing / Queensville/Sharon (1990)	To develop a wastewater treatment strategy for the communities of Holland Landing, Queensville, and Sharon in the Town of East Gwillimbury. The strategy was to provide wastewater services for a planned urban expansion of 46,000 within the three communities including a population for Holland Landing of 10,000	<p>i) The Study recommended:</p> <ul style="list-style-type: none"> <li>▪ Design/construction of the first phase of a sewage treatment plant (STP) to service 13,700 people.</li> <li>▪ Proceeding with a program to determine the feasibility of discharging sewage to the YDSS.</li> <li>▪ Monitoring effectiveness of the treatment system (specifically phosphorus removal) and, depending on the outcome, confirm, plan, and construct a connection from Holland Landing to the YDSS in the event that the treatment system could not achieve the objectives or the receiving stream could not assimilate waste flows. Objectives were based on the conclusion that a state-of-the-art sewage treatment plant could be constructed in Holland Landing to service a population of 13,700 and achieve an effluent level of 0.1 mg/L Total Phosphorus.</li> <li>▪ Proceeding with the preparation of a Class EA to further investigate the options.</li> </ul>
Class Environmental Assessment Study, Holland Landing/ Queensville/Sharon (1991)	Class EA prepared for the sewage treatment plant proposed in the "Town of East Gwillimbury, Wastewater Treatment Strategy - Holland Landing / Queensville / Sharon (1990)	<p>i) Phase 2 of the Class EA identified the preferred solution to be a new STP. However, stream studies indicated the East Holland River's dissolved oxygen level would govern the treated effluent volume to be discharged. Because a plant could not service all of East Gwillimbury growth, the Town requested that the option of a connection to the YDSS be investigated. At that time, the province re-affirmed its stated position that the YDSS would not service new growth beyond the area already approved.</p>

Class EA/Study	Objective	Relevant Findings/Recommendations
Ontario Municipal Board (OMB) Hearing on Development Proposals in Holland Landing (1995)	Hearing held to address proposed development in Holland Landing	i) The hearing was recessed until York Region identified to the OMB population could be realistically serviced in East Gwillimbury. As a result of this request, York Region commissioned the Holland Landing Sanitary Sewage Servicing Study in 1996.
Holland Landing Sanitary Sewage Treatment Study Phase 2 Report (1996)	To identify the population that could realistically be serviced in East Gwillimbury. Scope of the study included review of the existing sewage treatment system, identifying the water quality standards for the East Holland River and Lake Simcoe, carrying out an assimilative capacity study on the East Holland River and an environmental review of the area, and identifying a number of alternative solutions to be evaluated	i) After evaluation of several alternatives, only two options were recommended as viable: <ul style="list-style-type: none"> <li>▪ a new STP discharging to the East Holland River</li> <li>▪ a connection to the YDSS</li> </ul> ii) The study further concluded that servicing for Holland Landing could be completed following one of three approaches: <ul style="list-style-type: none"> <li>▪ Holland Landing connection to the YDSS alone (extension of YDSS to Holland Landing)</li> <li>▪ Master Planning Study to address/conclude the long-term Region-wide planning for wastewater servicing in a comprehensive fashion, or</li> <li>▪ Holland River discharge if the YDSS connection was found not to be viable in an acceptable timeframe</li> </ul>

<b>Class EA/Study</b>	<b>Objective</b>	<b>Relevant Findings/Recommendations</b>
YDSS Master Plan Class EA (1997)	To identify and review sewage servicing alternatives necessary to meet current servicing needs and future growth of York Region from 1996 to 2031, as identified in York Region's Official Plan	<ul style="list-style-type: none"> <li>i) System upgrades were identified that would be necessary to allow the YDSS to provide reliable wastewater infrastructure and servicing through to the end of the study time period of 2031.</li> <li>ii) Connecting Holland Landing and Queensville to the YDSS was recommended because of discharge restrictions to nearby water bodies (i.e. poor assimilative capacity) placed on Lake Simcoe.</li> <li>iii) Several strategic projects were identified and designed to accommodate the increased Region population to be serviced by the YDSS, including HLQS.</li> <li>iv) YDSS Master Plan was prepared in accordance with the Municipal Class EA.</li> </ul>
YDSS Extension to Holland Landing / Queensville Class EA Study (2000)	To determine the preferred route alignment for the YDSS extension to Holland Landing and Queensville and solve any downstream implications of flows to the YDSS system	<ul style="list-style-type: none"> <li>i) Conveyance concepts and routing corridors were developed from the proposed Queensville Pumping Station (PS) and Bradford PS in Holland Landing to the Newmarket PS and mitigation measures established.</li> <li>ii) Construction of a storage tank at the Newmarket PS to hold peak flow events was recommended. The Town of Newmarket expressed concerns regarding the recommended storage tank.</li> </ul>
YDSS Extension to Holland Landing/ Queensville Class EA Addendum (2002)	To carry out a re-evaluation of the proposed design and configuration of the Newmarket storage tank. The Town of Newmarket's concerns regarding YDSS Extension to Holland Landing/Queensville Class EA Project File (2000) were addressed through this document	<ul style="list-style-type: none"> <li>i) Construction of two flow equalization tanks was recommended instead of constructing one equalization tank at the Newmarket PS. One tank would be constructed at the Newmarket PS with a second at the Aurora PS when required, estimated to be 2012. The Aurora tank would require completion of a separate Class EA.</li> </ul>

Class EA/Study	Objective	Relevant Findings/Recommendations
YDSS Master Plan Class EA Update 2002	To complete a five-year review of the YDSS Master Plan	i) Four projects were identified to be in service before HLQS could be connected to the YDSS: <ul style="list-style-type: none"> <li>▪ Southeast Collector</li> <li>▪ 16<sup>th</sup> Avenue Trunk Sewer</li> <li>▪ Lower Leslie Collector Sewer</li> <li>▪ Newmarket Equalization Tank</li> </ul> ii) Connection to the YDSS was identified as the preferred solution for Holland Landing and Queensville after evaluation of several alternatives
Holland Landing, Queensville, Sharon Wastewater Infrastructure Class EA Review and Addendum (2007)	To review the Class EA decision to provide wastewater services to Holland Landing and Queensville through a connection to the YDSS, look at wastewater solutions to accommodate approved growth, and complete the Class EA for wastewater services to Sharon	i) The recommended undertaking was to construct a Regional Sewer System to receive wastewater from the communities of HLQS, and convey it to the YDSS at the Newmarket PS. This was to meet planning needs through connection to the YDSS from 2008 to 2015; and proceed with an EA for the upper York area to determine a long-term solution for wastewater servicing for growth beyond 2015. ii) Rationale supporting the above recommendation included: <ul style="list-style-type: none"> <li>▪ Approved population growth within land use control areas</li> <li>▪ Existence of the YDSS, a planned, coordinated, and efficient wastewater management system</li> <li>▪ YDSS terminus at Duffin Creek WPCP which is completing approved expansion</li> <li>▪ Limited/restricted receiving capacity of Lake Simcoe would not permit the approved population growth in HLQS to be serviced by an STP discharging to Lake Simcoe</li> <li>▪ Connection of HLQS to the YDSS is readily expandable within the limits of the Duffin Creek WPCP and other YDSS improvements to accommodate HLQS both complete and/or underway</li> </ul>



<b>Class EA/Study</b>	<b>Objective</b>	<b>Relevant Findings/Recommendations</b>
Water and Wastewater Master Plan Update (2009)	To provide long-term Region-wide water and wastewater planning	<ul style="list-style-type: none"><li>i) Lake Ontario-based servicing was recommended as the preferred alternative to meet York Region's long-term water and wastewater servicing needs</li><li>ii) Alternative solutions for servicing in Holland Landing, Queensville, and Sharon will be examined in greater detail during the UYSS EA project</li></ul>