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Master Servicing Plan Town of Bradford West Gwillimbury

In 1999, the Public Utilities Commission of the Town of Bradford West Gwillimbury retained the Ainley Group to complete a Water Servicing Master Plan based on the process outlined in the MEA Class Environmental Assessment (EA) document. Water supply, distribution and storage requirements were to be identified for Bradford and Bond Head. The PUC recognized the importance of putting a plan in place that would allow for future development to occur in an orderly manner. Population projections were established and water demand criteria was developed in consultation with the PUC. An existing computer network model was updated to determine the distribution system extensions needed to provide service into the areas that were slated for future development (residential and industrial). The primary focus of the Master Plan was to identify and assess options to increase the Town's water supply capacity. The assessment determined that the most reliable, expandable and cost-effective method of meeting the Town's future water supply needs was to purchase water (average day demand) from the Town of New Tecumseth (Georgian Bay supply). Other works were identified including the provision of additional water storage as an emergency measure in the event that the transmission main from Alliston was taken off-line for any reason. The Study recommended that the existing groundwater supply wells be retained to meet maximum day demands. In addition, a computer model was used to identify extensions to the distribution system.

Planning for the Master Plan followed the MEA Class Environmental Assessment (EA) document (Approach No.2) which resulted in the completion of Phases 1 and 2 of the Class Environmental Assessment planning process.

Project Facts

Client: Town of Bradford West Gwillimbury

Scope of Work:

- Completion of Phases 1 and 2 of the Class Environmental Assessment (EA) planning process
- Completion of a Water Servicing Master Plan, which included:
 - Establishing population projections
 - Developing water demand criteria
 - Updating an existing computer network model to determine the needed distribution system extensions
 - Identifying and assessing options to increase the Town's water supply capacity.

Key Design Criteria:

- Determining the most reliable, expandable and cost-effective method of meeting future water supply needs
- Population growth and future development.

Total Estimated Infrastructure Works: \$26,700,000