



City of Orillia

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Water System Master Plan City of Orillia

In 1995, the City of Orillia retained the Ainley Group to prepare a Water System Master Plan. The intent of the master plan was to establish a framework to identify the specific water system requirements to service re-urbanization and the development of approximately 550 hectares of annexed land. The framework was established through a process in which the constraints and problems associated with the existing water system were identified and alternative rectifying methods were evaluated. Population and water-demand projections were developed and the capacities of the existing system were established. The collected data culminated in the production of a Schedule of Works, which listed the major works needed to be carried out over the next 30 years, including cost estimates.

The recommended works included an expansion of the existing Water Filtration Plant, as well as the construction of a new water storage reservoir and transmission main to and throughout the annexed lands. Programs to conserve water and rehabilitate the existing water system were also included.

Planning for the Master Plan followed the Class Environmental Assessment (EA) Document for Municipal Water and Wastewater Projects and thereby satisfied the Phase 1 and 2 requirements with respect to public and agency notification and involvement.

In 2002, the Ainley Group prepared an update of the Water System Master Plan for the City of Orillia. The update accounted for works completed since the original Master Plan and incorporated new information, in particular the additional works required as a result of new Provincial legislation and regulations enacted in response to Walkerton.

Project Facts

Client: City of Orillia

Scope of Work:

- Identify water system requirements
- Develop population and water-demand projections
- Establish the capacities of the existing system
- Produce a Schedule of Works detailing major works needed over the next 30 years.

Recommendations:

- Expansion of the existing water filtration plant
- Development of additional wells
- Expansion of the James Street pump station
- Construction of a new water storage reservoir and transmission main to and throughout the annexed land
- Water efficiency program
- A program of systematic rehabilitation of the existing water system.

Project Cost: \$85,000 (1996) - updated in 2002