



City of Orillia's Wastewater Treatment Centre – designed by the Ainley Group

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.

Wastewater System Master Plan City of Orillia

In 1994, the City of Orillia retained the Ainley Group to prepare a Wastewater System Master Plan. The intent of the master plan was to establish a framework to identify the specific wastewater system requirements to service Region 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 wastewater system were identified and alternative rectifying methods were evaluated. Population and water-flow 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 Wastewater Treatment Centre (existing plant designed by the Ainley Group), as well as an expansion of the James Street sewage pump station and construction of new trunk sewers and pump stations in the annexed lands. Programs to conserve water and reduce extraneous flows entering the wastewater collection system were also included.

Planning for the Master Plan followed the Class Environmental Assessment 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.

Project Facts

Client: City of Orillia

Scope of Work:

- Identify wastewater system requirements
- Develop population and water-flow 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 wastewater treatment centre
- Expansion of the James Street pump station
- Construction of new trunk sewers and pumps stations in annexed land
- Water conservation program
- A program to reduce extraneous flows entering the wastewater collection system.

Project Cost: \$90,000 (1996)