

Lakeshore Water Works Project

Client: Town of Innisfil

Year: 1990 - 2008



SERVICES PROVIDED

CCTA developed a water supply master plan for Innisfil's lakeshore communities. We evaluated alternative water sources, oversaw the intake location and the water treatability studies, and proposed that a high rate direct filtration water treatment plant (WTP) be constructed in Alcona. We designed and administered the construction contract for the first phase of the Lakeshore Water Supply Works, which included an intake into Lake Simcoe, a low lift pump station, a 11,543 m³/day WTP, a 8,700 m³ grade-level storage reservoir, together with 42 km of water mains and 23 km of service connections. The Lakeshore WTP was commissioned in 1995. Since then, CCTA has been significantly involved with Innisfil's lake-based water system, including: updating the water distribution model; design and contract administration of the low lift pump station expansion for powdered activated carbon addition (taste and odour control); Class EA studies, design and contract administration for the Phase 2 expansion of the Lakeshore WTP (commissioned in 2008) and the booster pump station and transmission main to Bradford (commissioned in 2007). The direct filtration WTP now has a capacity of 25,800 m³/day and provides chloramination for secondary disinfection.

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