



PROJECT:

North Glengarry

Leading the way with sustainable solutions

LOCATION

Ontario, Canada

PROJECT TYPE

Municipal

WASTE TYPE

Domestic
Wastewater

COMPLETION DATE

Under Construction

DESIGN FLOW

5,500 CMD

TREATMENT

Aerated Lagoon and
Engineered Wetland

NEED

In order to meet stringent effluent limits, the Township of North Glengarry in Ontario, Canada needed to improve the performance from the existing lagoon-based treatment system. The estimated costs for a traditional mechanical facility were prohibitively high, so the Township contracted Jacques Whitford NAWE to design a wastewater treatment system that would optimize reuse of the existing lagoon-based system.

SOLUTION

The comprehensive upgrade of the facility consists of a large high performance aerated lagoon (HPAL) followed by multiple engineered wetland cells. In addition, the upgrade will include screens for solids removal and an ultraviolet disinfection unit. The HPAL will be insulated and aerated by floating aerators while the wetland cells will use JW NAWE's patented **Forced Bed Aeration™** system.

BENEFIT

Meeting stringent effluent limits can be extremely costly, particularly if a new, mechanical sewage plant is required. Current advances in lagoon technology and engineered wetlands can provide a simple and robust alternative for upgrade of existing facilities. In the case of North Glengarry, the Township was able to install the upgrade at a fraction of the estimated cost.



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