



ASSIMILATIVE CAPACITY STUDY

Water Resources

Baxter Creek Assimilative Capacity Study

Client: R.V. Anderson Associates Ltd.

Project Completion: 2013

The Township of Cavan Monaghan initiated a Municipal Class Environmental Assessment (EA) Schedule C process in 2012 to address renewal, capacity and environmental performance issues associated with the Millbrook Wastewater Treatment Plant. The plant, which was approaching the end of its useful service life, required substantial renewal and was challenged by obsolete equipment issues.

The goal of the assimilative capacity study component performed by Greenland was designed to evaluate existing and proposed conditions and to evaluate scenario options for management of projected sanitary flows (i.e. from the new / expanded WWTP discharge at the Community of Millbrook, Township of Cavan Monaghan. The intent was to ensure that proposed changes would result in compliance with Provincial Water Quality Objectives (PWQOs) administered by the Ontario Ministry of the Environment (MOE). Recommendations to the Township included the implementation of the most stringent phosphorus controls feasible for the expanded facility, with the possibility of also exploring opportunities to reduce phosphorus loads from non-point sources such private septic systems and agricultural runoff.

