



ENVIRONMENTAL MANAGEMENT

Water Management Plans

Magna International Headquarters Master Drainage Plan

Client: Stantec Consulting Ltd.

Location: Town of Aurora, Ontario

In 2001, Magna International Inc. completed the development of a 300 hectare (750 acre) site in the Town of Aurora. The development included the corporate headquarters complex and industrial blocks, an executive length 18-hole golf course and a pristine residential subdivision.

During the land use planning process, stormwater drainage (quantity and quality) impacts, groundwater recharge preservation and stream corridor preservation were raised as potential constraints to any development. **GREENLAND**, using the Visual OTTHYMO[®] hydrologic computer model, designed an environmentally and economically sound plan. The plan consisted of eight (8) hybrid wet pond and wetland facilities for the purpose of stormwater management and recycling rainfall-runoff for golf course irrigation. An intensive post-construction monitoring program was implemented after the stormwater management works were constructed.

