



**Environmental  
Hydraulics  
Group**

**Water Resources & SWM  
- Environment**

**Project: SWM Infiltration Pond for Deer Ridge  
Subdivision**

**2000-376**

**Location: Township of Uxbridge, Ontario**

**Client: The Toronto and Region Conservation Authority**

**Completed: November, 2001**

**Description:**

The Deer Ridge Subdivision is 23.5 ha in size. The site is located in the Township of Uxbridge in the Regional Municipality of Durham.

It was proposed that 44 residential lots and an internal road system be constructed on the subject site. Two infiltration ponds were proposed: one each at the east and west ends of the subject site.

**Benefit to the Client:**

Based on the present hydrological and hydraulic analysis, EHG can conclude:

- The proposed minor and major drainage systems are adequate to convey flows with 5 year and 100 year return periods, respectively.
- The infiltration ponds will provide adequate sediment removal and water quality for the proposed development for events up to the 5-year storm events.
- The proposed quantity storage facility will control the post-development runoff to pre-development levels
- Infiltration basins and open-bottom catch basins will require periodic cleaning to remove trapped sediments and restore permeability.
- Rehabilitation may be required about every 10 years.

This project demonstrates EHG's ability to minimize the client's costs while meeting all approval agencies and municipal government requirements.

