

Groundwater Resources Studies

The *Groundwater Resources Study* (GRS) series seeks to better the understanding of Ontario's groundwater resources through the collection, evaluation and distribution of geoscience data. The main objective of the series is to provide accurate information on a range of groundwater-related themes, including local- to watershed-scale aquifer characterization and delineation; geologic controls and influences on groundwater quantity and quality; and methods development. Products of the groundwater program include geoscience reports, data sets and protocols for information collection and handling. Geoscience information generated through the series will find application in the protection and sustainable management of the province's groundwater resources.

Groundwater Resources Study 6

Groundwater Resources of the Credit River Watershed; by S. Davies and S. Holysh.

This Groundwater Resource Study describes the groundwater resources of the Credit River watershed area. The groundwater resources of this area are strongly influenced by the Niagara Escarpment, which bisects the watershed, and 4 buried bedrock valleys. Significant aquifers in the watershed include the Oak Ridges, Orangeville and Paris moraines, the buried bedrock valleys and the Amabel and Guelph bedrock formations. The hydrogeology of these aquifers is characterized in a set of maps and accompanying report, including Quaternary and Paleozoic geology, bedrock topography, overburden thickness, sand/gravel thickness, water table, potentiometric surface and potential recharge/discharge areas. Groundwater discharge and baseflow is assessed with the assistance of subwatershed streamflow data.

Groundwater Resources Study 6 can be downloaded from:

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=GRS006