



**Essex Region
Conservation
Authority**



Essex Region/Chatham-Kent Region Groundwater Study Volume I:

Geologic/Hydrogeologic Evaluation

December 2004

Completed in Association with:

Essex Region Conservation Authority

Municipality of Chatham-Kent

02-0222

Submitted by

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April 22, 2005

Essex Region Conservation Authority
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Attention: Mr. Stan Taylor, P. Eng.,
Coordinator of Engineering and Planning

Essex Region/Chatham-Kent Regional Groundwater Study Volume I

Dear Mr. Taylor:

Attached is the Essex Region/Chatham-Kent Groundwater Report Volume I, which presents the evaluation of the regional geology and hydrogeology of the study area. In most respects, Volume I stands alone from Volume II, which develops groundwater protection policies and methodologies.

Should you have any questions, please feel free to contact me at your convenience.

Sincerely yours,

DILLON CONSULTING LIMITED

A handwritten signature in blue ink, appearing to read "CGH", with a long horizontal line extending to the right.

Clifford G. Hanson
Project Manager

A handwritten signature in blue ink, appearing to read "CKL", with a long horizontal line extending to the right.

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ESSEX REGION/CHATHAM-KENT REGION GROUNDWATER STUDY

PREAMBLE

The Essex Region/Chatham-Kent Region Groundwater Study, accomplished in accordance with the Ontario Ministry of Environment (MOE) Terms of Reference, was completed in conjunction with numerous other regional studies throughout the Province. The Study was completed in association with the Essex Region Conservation Authority, Municipality of Chatham-Kent, City of Windsor, and the Township of Pelee.

At the outset of the project, it was recognized that this study would address the Terms of Reference as defined by the MOE and would also serve as the basis for groundwater protection issues which were envisioned as a function of the Municipality of Chatham-Kent Official Plan, which was being completed along a parallel time frame. As such, significantly greater efforts were made during this study in public meetings, presentations, and policy definition than was required by the MOE Terms of Reference.

The results of this study have been presented in two volumes:

Volume I - Geologic/Hydrogeologic Evaluation. This volume contains the technical evaluations and results which define the groundwater resource, as defined by the Terms of Reference. This volume is designed to provide the scientific and technical background for the definition of the groundwater resources and serve as the basis for the development of groundwater management and protection strategies.

Volume II - Groundwater Management Principles and Strategies. This volume contains a summarization of the existing groundwater management framework for federal, provincial, and local agencies. The volume also contains suggestions for groundwater protection activities and policies for governmental and non-governmental groups.

The division of this report into the two volumes will allow subsequent report users to quickly focus on those aspects, either technically oriented or policy oriented, depending upon their specific needs.

Clifford G. Hanson
Project Manager

Dillon Consulting Limited

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