



GILLES WENDLING, Ph.D., P.Eng.

Dr. Wendling has been involved in the assessment of water supplies (drinking water) and in the protection of groundwater resources. His fields of interest and expertise are the following:

- design of production wells;
- monitoring, maintenance and rehabilitation of water wells;
- characterization and protection of aquifers and watersheds;
- education on water supply systems, hydrogeology, water conservation and water microbiology;
- water management and water demand assessment; and
- ground disposal of treated liquid wastes.

Gilles Wendling was in the organizing team of the CanWell 2004 PanCanadian groundwater convention and trade show (500 delegates). Dr. Wendling has been the Director -Technical and Professional Division of the BC Groundwater Association from 2001 to 2006, and its managing Director in 2006, 2007 and 2008. He has also been the Director -Technical and Professional Division of the Canadian Groundwater Association in 2003 and 2004.

Gilles Wendling is the president and founder of Global Aquifer Development Foundation, a Canadian charity creating partnerships with developing countries and assisting in the establishment of groundwater management systems.

Gilles Wendling has conducted and managed studies in many fields of hydrogeology such as:

- Environmental impact studies (commercial and industrial activities – mostly for the mining and petroleum industries);
- Impact assessments of municipal and regional solid waste and liquid waste disposal facilities;
- Geotechnical investigations (seepage and slope stability assessments);
- Etc.

This resume mainly focuses on **geotechnical projects** completed.

PROFESSIONAL EXPERIENCE

- Complex hydrogeological modelling along dam abutment using Feeflow – Detailed Design of E2 Shaft Replacement / Remediation at Cleveland Dam – East Abutment, senior technical input and review, Vancouver, BC
- Assessment of artesian flow during excavation for residential complex and design of groundwater pressure release trenches, Campbell River, BC
- Water well evaluation and monitoring (baseline for assessment of potential impact due to Highway expansion) - review, Okanogan Improvements Project, Summerland, BC
- Review of the design of relief wells for the little Bow River Dam, Alberta
- Water reservoir groundwater investigation - review, Jean Marie River, North West Territories



- Assessment of drainage in rehabilitation of highway pavement, senior technical input, Gaglardi Way, Burnaby, BC
- Assessment of artesian flow following the installation of an elevator shaft and conceptual design of control measures, North Vancouver, BC
- Evaluation of water loss, transport of particles and subsequent ineffectiveness of vibro flotation techniques, Vancouver, BC
- Assessment of soil settlements during dewatering, Richmond, BC
- Characterization of hydrogeologic conditions of a landslide and implementation of depressurization wells, Kamloops, BC
- Field manager, geotechnical investigations for a 6 million m³ reservoir, Great Man Made River Project (irrigation project), Libya. Duties included management of a drilling team, in situ and laboratory testing (four engineers, 10 workers).
- Field geotechnical engineer, involved in soil investigations along a 900-km trench, at well fields, and at reservoir sites. Duties included supervising soil and rock drilling, in situ and laboratory testing. Great Man Made River Project, Libya.

EXPERT WITNESS AND LITIGATION

- Impact of operation of sewage lagoons on the modification of the groundwater regime and potential slope instability creating damage to cutslopes and embankments along a railway track, expert witness, Cranbrook, BC
- Hydrogeological investigation to assess source of residence flooding in recently built subdivision, report completed in preparation for litigation, Whitehorse, Yukon
- Private property damaged by flooding, expert witness, Shawnigan Lake, BC

TECHNICAL PUBLICATIONS

ÉSSAIS DE PERMÉABILITÉ À NIVEAU VARIABLE DANS DES PIÉZOMÈTRES, 1990 - with R.P. Chapuis. Rapport CDT, no. P904, École Polytechnique de Montréal, 48 pages, juin.

MONITORING WELLS: FIELD MEASUREMENT OF PERMEABILITY WITH MINIMAL MODIFICATION OF GROUNDWATER, 1990 - with R.P. Chapuis. Proceedings of the CSCE Annual Conference and 1st Biennial Environmental Specialty Conference, Hamilton, Ontario, Vol. 1-2, pp. 765-777.

ESSAIS DE PERMÉABILITÉ À NIVEAU VARIABLE DANS DES PIÉZOMÈTRES, 1988 - with R.P. Chapuis. Rapport CDT, no. A284, École Polytechnique de Montréal, 158 pages, janvier.

ESTIMATING THE MERITS OF PUMPING TESTS FOR DETERMINING HYDRAULIC CONDUCTIVITY, 1987 - with R.P. Chapuis and D.E. Gill. Proceedings of the 40th Canadian Geotechnical Conference, Regina, pp. 291-300.

FILTRATION OF BROADLY GRADED SOILS BY WOVEN GEOTEXTILES, 1986 - with J. Lafleur and M. Tetreault. Proceedings of the 3rd International Conference on Geotextiles, Vienna, Austria.

ÉTUDE DE LA STABILISATION PAR AUTOFILTRATION DES SOLS MODÉLISÉS À GRANULOMÉTRIE ÉTALÉE, 1985 - Mémoire M.Sc.A., École Polytechnique de Montréal.