



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 **liquid and solid waste disposal related assessments and landfill related projects** completed.

LIQUID AND SOLID WASTE

- Hydrogeological Investigation and Environmental Impact, Assessment – Liquid Waste Disposal Facility for Sakinaw Ridge, Garden Bay, BC
- Hydrogeological Assessment of groundwater regime in association with design of liquid waste treatment lagoon, Burwash Landing, Yukon.
- Study at site proposed for sewage treatment facility - senior technical input and review, Carmacks, Yukon
- Hydrogeological study at site proposed for sewage treatment facility - senior technical input and review, Atlin, BC

- Conceptual hydrogeological study, waste water predesign study, Carmacks, Yukon
- Hydrogeological study at land debris landfill, Tofino, BC
- Hydrogeological Study, open pit mine, design of leachate collection system, Port Hardy, BC
- Water supply and liquid waste disposal assessment for a resort - review, Carcross, Yukon
- Installation of monitoring well network to monitor potential impact of solid waste facility - review, Carmacks, Yukon
- Preliminary hydrogeological study for water supply and liquid waste disposal assessment for proposed resort, Ucluelet, BC
- Hydrogeological study at location of woodwaste landfill, Shawnigan Lake, BC
- Hydrogeological assessment and potential environmental impact assessment for proposed expansion of woodwaste landfill, Parksville, BC
- Impact assessment of failing septic fields on storm water quality, Lantzville, BC
- Complex hydrogeological study for water supply and liquid waste disposal for large commercial, residential and golf course development (2000 doors), Union Bay, BC
- Hydrogeological study to assess groundwater regime near sewage lagoons and potential impact on slope stability due to operation of lagoons, Cranbrook, BC.
- Hydrogeological investigation and assessment of impact of installation of septic field on water quality and slope stability, Malahat Indian Band, Mill Bay, BC.
- Hydrogeological investigation and assessment of impact of installation of sewage treatment plant on water quality, Hazelton, BC.
- Several hydrogeological studies for the design and implementation of septic fields in difficult hydrogeological conditions (Cedar, Duncan, Shawnigan Lake, Campbell River, Bamfield, Sooke).
- Monitoring of ground disposal of sewage effluent, Shawnigan Lake, BC.
- Assessment of groundwater mound building in wastewater treatment dunes, Whitehorse, Yukon.
- Assessment of subsurface conditions associated with wastewater disposal and water supply assessment for the Aldergrove Border Crossing Facility, Aldergrove, BC.
- Characterization of a site formerly used as a waste sludge lagoon. Assessment of the contamination of the subsurface using geoprobes and real time logging (for collection of data and groundwater samples), Annacis Island, BC.



LANDFILL

- Characterization of subsurface and hydrogeological conditions at a landfill site, for a proposed expansion of the landfill, Regional District of Nanaimo, BC.
- Review of landfill operation and impact on soil gases and groundwater - 3 year senior review, Cache Creek, BC
- Characterization of subsurface and hydrogeological conditions at a landfill site, for the design of a proposed leachate collection pond, Pender Harbour, BC.
- Characterization of subsurface and hydrogeological conditions at a landfill site, and conceptual design of measures to reduce and treat the generated leachate, Mount Waddington Regional District, Port McNeill, BC.
- Assessment and monitoring of impact on groundwater of several solid waste landfills (including web based on-line reporting) - 5 year contract, Regional District of Comox- Strathcona, BC
- Retrofit Bioenhancement of the Existing Regional District of Nanaimo Landfill Cell, Nanaimo, BC
- Long term monitoring of impact to groundwater of landfill operation, Mount Waddington Regional District, Port McNeill, BC.
- Hydrogeological investigation and Mitigation plan of land clearing debris landfill, Tofino, BC.
- Hydrogeological investigation of municipal landfill, Atlin, BC.
- Groundwater and surface water impact monitoring at location of woodwaste landfill, Shawnigan Lake, BC
- Hydrogeological study, Wood Waste Landfill, Parksville, BC
- Quarterly Landfill Gas Monitoring, Chemainus Wood Waste Landfill, Chemainus, BC
- Groundwater monitoring and sampling, China Creek Wood Waste Landfill, Port Alberni, BC
- Water Quality Monitoring, North Okanogan Regional District Landfills, Vernon, BC



LIQUID WASTE DISPOSAL ASSESSMENT

- Septic Investigation - Buckley Bay Store, Buckley Bay, BC.
- Review Liquid Waste Treatment and Disposal Coombs Old Country Market, Qualicum Beach, BC
- Phase II Pre-design Sewage treatment Facility, Senior technical input and review, Burwash Landing, Yukon
- Septic Field Analysis, Campground Services - review, Watson Lake, Yukon
- Septic field analyses for First Nation Community, Nanoose, BC
- Environment assessment in relationship with proposed development of a marina, Toquaht First Nation, Toquaht Bay, BC
- Log sort waste water disposal field assessment, Sproat Lake, Port Alberni, BC
- Breakout assessment of ground disposal of liquid waste - review, Vernon, BC
- Hydrogeological investigation for the design of ground disposal of liquid waste facility, Kelowna, BC
- Hydrogeological study for septic fields upgrade at three BC provincial parks, central Vancouver Island, BC
- Hydrogeological assessment of proposed septic systems on water quality in the Englishman River, Parksville, BC

EXPERT WITNESS AND LITIGATION

- Impact of proposed discharge of liquid waste to the ground near water well used by private water utility, expert witness, Parksville BC
- 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
- Appeal to the Ministry of Health associated with the completion of a sewage disposal field, expert witness, Campbell River, BC