



DENNIS E. KONASEWICH, Ph.D, P.Eng **SENIOR CONSULTANT**

PROFESSIONAL HISTORY

Hemmera Envirochem Inc., Senior Consultant, 2000 – Present (2 years)
Envirochem Consultants Ltd., President and Owner, Technical Supervisor, 1984 - 2000
Consultant in Environmental Chemistry, 1980 – 1984
International Joint Commission, Washington, D.C. and Ottawa, Ontario, 1979 –1980
International Joint Commission, Windsor, Ontario, 1974 - 1979
Northern Purification Wastewater Treatment, 1972 – 1974
Government of Colombia, 1971 – 1972
National Research Council of Canada, 1969 – 1970

EDUCATION:

B.Sc. (Honours in Chemistry) University of Alberta, 1965
Ph.D. (Physical Organic Chemistry) University of Minnesota, Minneapolis, 1969

RESIDENCE:

West Vancouver, BC

SUMMARY OF EXPERIENCE

Dr. Konasewich has a doctorate degree in chemistry and has worked in the field of environmental chemistry for the past thirty years. He specializes in the assessment of fate and effects of environmental contaminants and in the evaluation of industrial processes and procedures to eliminate the release of industrial chemicals to the immediate and outside environment. His experience is briefly summarized below.

Contaminated Sites: As previous owner of Envirochem Consultants Ltd., Dr. Konasewich was responsible for the technical review of site investigations and remediations. Overall, under his direction approximately 120 Stage I Preliminary Site Investigations and, 100 Stage II and III Site Investigations were completed. As well, approximately 20 remediation projects occurred under his direction. The merger of Envirochem with Hemmera has enabled Dr. Konasewich to work with a larger team with a focus on contaminated sites. Dr. Konasewich was a panel member of the 1996 review of the BC Environment proposed numerical standards for implementation of Bill 26. He is presently a member of the B.C. Contaminated Sites Implementation Committee Standards Sub-Committee.

Risk Assessments: Dr. Konasewich is principal author of several human health and ecological risk assessments, which have been reviewed and approved by B.C. Environment (now BC WLAP). Under Dr. Konasewich's direction, his company was among the first in B.C. to use the stochastic approach for risk assessments. In 1984, Dr. Konasewich chaired a peer review of the initial U.S. EPA. research programs on ecological risk assessments. Presently Dr. Konasewich heads a risk assessment group within Hemmera Envirochem.

Evaluation of Industrial Processes: Dr. Konasewich has evaluated numerous industries with regard to controls and releases of chemicals. For example, he has evaluated wood preservation industries throughout Canada, and is the author of five national technical recommendation documents for the design and operation of wood preservation facilities. He is a principal author of a similar document for the application of antisapstain chemicals by the lumber industry. He has also prepared pollution prevention plans for the concrete industry and the wood preservation industry.



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Regulatory: Much of Dr. Konasewich's work is reviewed by regulatory agencies or has been prepared for regulatory agencies. He has developed pollution prevention plans for Environment Canada, identified potential contaminants of concern in Puget Sound (for the U.S. National Oceanic and Atmospheric Administration) and worked with the International Joint Commission (IJC) for assessment of research programs, assessment of legislation, and development of water quality objectives for the Great Lakes. His activities with the IJC required a constant working relationship with agencies from 2 provinces, 8 states and the 2 federal governments. From 1980 to 1982 Dr. Konasewich chaired peer review panels for three U.S. EPA research programs. During 2000 and 2002, he conducted assessments of the Canadian wood preservation facilities for compliance with the Canadian Environmental Protection Act.

Assessments of Solid Waste Disposal Options: Dr. Konasewich has conducted feasibility and cost reviews of available technology for disposal of solid wastes such as contaminated soil. He has managed a project to short-list management options for coal-tar contaminated sites. In 2001, for consideration of a national committee, he designed a draft strategy for disposal of treated wood in Canada.

Environmental Impacts: Dr. Konasewich has participated in several environmental impact studies including the baseline assessment of the Red Dog Creek mine in Alaska, the potential impacts of a deep sea outfall, and impacts of stormwater discharges from sawmills and log yards in B.C.

Wastewater and Water Treatment: Dr. Konasewich has extensive field experience in the development of drinking water treatment systems in Colombia and Canada. He also worked with the International Joint Commission on the evaluation of new technologies for the treatment of industrial wastewater.

Laboratory Analysis: Hemmera Envirochem Inc. has a laboratory under Dr. Konasewich's direction which undertakes organic analysis for environmental samples. Through the laboratory, QA/QC procedures are defined for Hemmera Envirochem site assessments. Dr. Konasewich has a wide-ranging experience in field sampling and laboratory analysis, including the initiation of a pollution assessment for the largest river in Colombia, South America.

Research and Development: At the Canada National Research Council in Ottawa, Dr. Konasewich worked on the development of a photocatalysis system for the oxidation of organic compounds in water. Recently the HEI laboratory has evaluated the feasibility of using Fenton's reagent to degrade chlorophenols in soil.

Provision of Technical Expertise for Legal Issues: Dr. Konasewich has provided technical expertise for legal cases and issues relating to the Contaminated Sites Regulation and Section 36(3) of the Canada Fisheries Act.

PROFESSIONAL AFFILIATIONS

- American Chemical Society, Environmental Division
- Association of Professional Engineers and Geoscientists of B.C.
- Institute for Risk Research, University of Waterloo