## ULYSSES KLEE

Senior Ecotoxicologist and Risk Assessment Specialist

#### **Education**

Ph.D., Aquatic Toxicology, University of Waterloo, Ontario, 1998 M.Sc., Biochemistry, University of Waterloo, Ontario, 1990 B.Sc., Honours, Biology/Chemistry Co-op, University of Waterloo, Ontario, 1988

# Language

English

#### **EXPERIENCE**

#### Contaminated Sites/Remediation Projects

- Conducted a site-specific risk assessment, including the development of a sampling program, to address metal contamination surrounding PWGSC's Lighthouse Station located on Chantry Island, Ontario (2002).
- As part of PWGSC's efforts to address mercury contamination at a remote hydrometric stations in Ontario, a template SSRA was developed to screen, group and prioritize the 70 sites of potential concern. Following this, the template SSRA was applied to each priority site or group of sites in order to provide site specific mercury clean-up targets that would be protective of both human health and the environment (2002-2003).
- Reviewed and provided technical edits for the ecological risk assessments conducted to evaluate the potential impacts to wildlife associated with the Coke Oven's and Muggah Creek sites in Sidney, Nova Scotia (2002.
- Ecological Risk Assessment to determine the potential impacts of elevated chlorate in soil and groundwater associated with a chemical manufacturing facility in Ontario (2001).
- Human Health and Ecological Risk Assessment of 3 Former DEW Line Sites in the Canadian Eastern Arctic (1999).
- Environmental Risk Assessment for cyanide discharge from a holding pond receiving process water from gold mining operations in Argentina (2001).
- Human Health and Ecological Risk Assessment of a Former Wood Preserving Facility in British Columbia (1997).
- Human Health and Ecological Risk Assessment of the Former U.S. Naval Air Base at Argentia, Newfoundland (1995).

### Petroleum Related Projects

- Public Health Risk Assessment of the Irving Oil Refinery Ltd. Upgrade in Saint John, New Brunswick (1999).
- Human Health Risk Assessment of Air Emissions from the Holyrood Thermal Generating Station in Newfoundland (1999).
- Qualitative Assessment of Potential Health Implications Associated with the Accidental Release of Catalytic Cracking Dust from an Oil Refinery (1999).
- Ecological Site Specific Risk Assessment for the Former Coal Gasification Plant Site, London Ontario (1998).
- Assessed the potential impact of a proposed open-pit coal mine in Northern Alberta on the surrounding aquatic and terrestrial ecosystem including Jasper National Park. Attended the public hearings as an expert witness (1997).

## Other Risk Assessment Projects

- Human Health Risk assessment of the potential impacts of consuming lobster contaminated with heavy metals in Belledune Harbour (2000).
- Development of a position paper regarding the potential impacts of glyphosate on non-target organisms and their respective ecosystems (1998).
- Environmental and Human Health Risk Assessment in support of the EIA for the Proposed VBNC Smelter/Refinery and Power Plant Facilities at Argentia, Newfoundland (1997).
- Peer review of the Environmental Risk Assessment and the Environmental Impact Assessment conducted for the Voisey's Bay mine site. Participated as a convenor in the mock hearings in order to prepare the mine assessment team for the Public Hearing (1997).



#### **EMPLOYMENT HISTORY**

## Dillon Consulting Limited.

2000-present Senior Ecotoxicologist and Environmental Risk Assessment

Specialist responsible for the management of projects in

environmental risk assessment.

#### Beak International Inc.

2000-2001 Senior Risk Assessment Specialist and Ecotoxicity Lab Manager.

Responsible for the management and conduct of environmental risk assessments considering both human and ecological health. Also managed the financial, technical and quality assurance/quality

control program of the Ecotoxicity Laboratory.

### Cantox Environmental Inc.

1998-2000 Environmental Risk Managers, Mississauga, Ontario, Scientist.

Responsibilities: Management of projects involving

environmental risk assessment for predicting the potential impacts of environmental contamination on aquatic and terrestrial ecosystems. Expanding the scope of involvement with clients, beyond Risk Assessment, to include Environmental Risk Management and cumulative effects assessment. Business development and marketing within all relevant sectors.

#### CanTox Inc.

1995-1998 Consultants in Health and Environmental Sciences, Mississauga,

Ontario, Scientist.

Responsibilities: Management and preparation of environmental

risk assessments.

## PRESENTATIONS AND PUBLICATIONS

Klee, U., Leece, B., Bestari, J., Gizyn, B., Chappel, M., Birmingham, B., Solomon, K. 2004. Bioaccessibility testing of PAH contaminated soil and its application in human health risk assessment. Abstract submitted to Society of Toxicology, 43<sup>rd</sup> Annual Meeting, Baltimore, Maryland, USA.

Hull, R.N., Klee, U., Bryant, D and T. Copeland. 1999. Soil Microbial Communities and Ecological Risk Assessment: Risk Assessors' Perspective. Human and Ecological Risk Assessment 5(4): 707-714.

CanTox (Klee, U., Armstrong, S., Mucklow, L., and Phole, G., 1997. Evaluation of the potential effects of sea lice treatment with teflubenzuron on non-target marine organisms in the vicinity of salmon aquaculture sites. Final Report to Mutreco ARC.

Fitzgerald, D.G., Lanno, R.P., Klee, U., Farwell, A., and Dixon, D.G. 1995. Critical body-residues (CBRs) in assessing the toxicity of pentachlorophenol to Eisenia fetida. Accepted in Soil Biol. Biochem.

Klee, U., McCarty, L.S., and Dixon, D.G. 1992. The Use of Body-Residue Based Modelling for Estimating the Toxicity of Toxicant Mixtures to Fish. Poster at Technology Transfer Conference, Toronto, Ontario.



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Senior Ecotoxicologist and Risk Assessment Specialist Klee, U. 1992. The Use of Body-Residue Based Modelling for Estimating the Toxicity of Toxicant Mixtures to Fish. Platform at SETAC Northeastern North American (NENA) Chapter Meeting, Kingston, Ontario.

Sibley, P.K., Klee, U., Feniak, A., and Dixon, D.G. 1991. Toxicity of Abietic Acid and Dehydroabietic Acid to Selected Aquatic Organisms. Poster at The Society of Environmental Toxicology and Chemistry (SETAC), 12th Annual Meeting, Seattle, Washington.

Klee, U., and Singh, T.J. 1991. Insulin-stimulated Tyrosine Phosphorylation of a 43 KDa Protein in Rat Liver Membranes. Molecular and Cellular Biochemistry. 108:19-27.

Klee, U., and Singh, T.J. 1990. Insulin-stimulated Phosphorylation of an  $M_{\rm r}$  43000 Protein in Solubilized Rat Liver Membrane. Poster at the Conference of The American Society for Biochemistry and Molecular Biology, New Orleans, Louisiana.

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