RESUME

Andrea Samuels, B.Sc., B. Tech., G.I.T.

Geologist/Geochemist

MESH Environmental Inc.

Education:

B. Sc. (Honours) (Geological Sciences)
Queen's University, Kingston, Ontario, Canada

B.Tech. (Environmental Engineering)
British Columbia Institute of Technology, Vancouver, B.C.,Canada

Years of Relevant Experience: 9

Summary of Experience:

2005 – present: Geologist/Geochemist, MESH Environmental Inc., Vancouver, B.C., Canada.

2001 - 2005: Consulting Geologist, Mehling Environmental Management Inc., Vancouver, B.C., Canada.

2000: Geologist, Viceroy Resource Corporation, Brewery Creek Mine, Yukon, Canada.

1998 - 1999: Junior Geologist, Brewery Creek Mine, Yukon, Canada.

1997: Junior Geologist, International Wayside Gold Mines Ltd., Cariboo Gold Quartz Mine, Wells, B.C., Canada.

1996: Geological Assistant, Taseko Mines Ltd. (Hunter Dickinson Inc.), Prosperity Project, B.C., Canada.

1995: Geological Assistant, South East Asia Resources Ltd., Shijia Region of Guangxi Province, Republic of China.

Affiliations:

Association of Professional Engineers and Geoscientists of British Columbia (APEGBC)

Ms. Samuels is a geologist who has worked in the mining industry for nine years. Her early experience was in exploration geology with work on exploration projects and mines in B.C., Yukon and China. For the last five years, Ms. Samuels has worked in the consulting industry specializing in the assessment of acid rock drainage, metal leaching potential and water quality predictions for various environmental-mining projects in Canada and the United States.

Ms. Samuels has also recent training in other environmental areas as part of the Environmental Engineering Technology Program at the B.C. Institute of Technology. Her recent studies concentrated on contaminated site audits/remediation, water treatment and solid waste management.

Areas of Expertise:

- Mine environmental studies with emphasis on geochemistry, ARD/ML assessment, mine waste management, permitting and mine closure.
- ARD/ML predictions for various mine wastes using static tests, kinetic tests and MINTEQA2 modeling.
- Surface water baseline studies, as well as water quality predictions for future and closing mines.
- Development of geochemical testing programs, lab coordination, data management and technical report writing.
- Fieldwork including detailed core logging (diamond drill core, RC chip), geological mapping (open pit, trench, blasthole), drill supervision, ore control and sampling.

Recent Project Experience:

- Belcourt-Saxon Coal Ltd. Partnership, Belcourt-Saxon Project, B.C., Canada – Sampling, ARD/ML characterization and management planning of various mine wastes (open pits, waste rock dumps, coarse coal rejects, tailings and coal stockpiles) at a proposed open-pit coal mine.
- Canadian Zinc Corporation, Prairie Creek Mine, NWT, Canada – Site reconnaissance, sampling, ARD/ML assessment and waste management options for waste rock, ore, tailings and float material at a proposed underground carbonate-hosted Pb-Zn deposit.
- Cline Mining Corporation, Lodgepole Coal Project, B.C., Canada – ARD/ML potential and water quality predictions of pit walls, waste rock and process wastes for a proposed open-pit coal mine in support of a B.C. Environmental Assessment.