



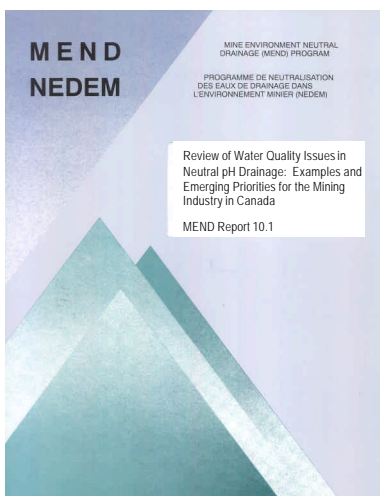
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MEND Publication

MEND Report 10.1 **Review of Water Quality Issues in Neutral pH Drainage: Examples and Emerging Priorities for the Mining Industry in Canada (November 2004)**

Contractor: Stantec Consulting Ltd. (Brampton)

A review of selected Canadian mining operations was completed to determine priority chemical elements of interest (EOIs) associated with leaching under non-acidic conditions. These EOIs can result in unacceptably elevated concentrations in drainage if loadings to the environment exceed assimilative capacity. They can be a concern for reasons related to; specific environmental or regulatory drivers (or potential environmental impacts), absence of sufficient solubility controls at neutral pH, and element-specific challenges for cost-effective removal from effluent and wastewaters. Key challenges around water quality, mine waste management and potential terrestrial effects and the associated cost implications were summarized, with a focus on arsenic, molybdenum and selenium.



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