

ENVIRONMENTAL SERVICES TO MINING

Environmental management is a key component of mine design, operation and closure, and is a sound practice that makes good business sense. Micon's mining environmental projects can be grouped under the following headings.

AUDITS

Confidential Client, Antamina Project, Peru: Retained to provide an independent review of the feasibility study and environmental impact assessment of the copper project on behalf of a potential investor.

NM Rothschild & Sons, Tarkwa Gold, Ghana: Full technical due diligence review of the gold heap leach operation, including environmental, socio-economic, health and safety, and mine closure and rehabilitation aspects of the feasibility study.

SCR-Sibelco, Kaolin/Silica Sand Operations, Bulgaria: Review of environmental liabilities associated with the acquisition of a series of operations and subsequent preparation of closure plans and costs for selected sites.

Syndicate of Lending Agencies, Lihir Gold Project, Papua New Guinea: Comprehensive due diligence review of feasibility study and environmental impact assessment. Independent environmental audits were conducted during project construction and into operation to assess environmental management practices and occupational health and safety issues.

MANAGEMENT

Barrick Golden Patricia, Golden Patricia Mine, Canada: Provision of technical environmental support after closure of the underground gold mine, including PCB testing, preparation of post-closure report and quarterly water quality reports.

Confidential Client, Underground Gold Mine, Canada: Review of spill response procedures and preparation of a spill report for submission to government after a surface diesel fuel spill.

Kilborn SNC Lavalin, Ararat Tailings Gold Recovery Project, Armenia: Preparation of an environmental management plan and provision of general environmental management assistance.

personnel. Design and implementation of a surface water quality monitoring program. Quarterly and annual reports were prepared.

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Lac Properties, Milton Quarry, Canada: Acted as site environmental coordinator for the limestone quarry including preparation of Environmental Management Manual, response to corporate environmental audits, periodic inspections and environmental training of site

RECLAMATION

Boliden Apirsa, Los Frailes Mine, Spain: Project management assistance provided following a tailings dam failure at the base metal mine.

Cerro Castillo, Mina Angela, Argentina: Technical guidance and project management assistance given for reclamation and closure of the underground gold mine including: development of a closure strategy, acting as site engineer during closure activities, pre- and post-closure document preparation, and presentation to local, provincial and federal government agencies of the strategy (pre-closure) and summary and presentation of closure activities (post-closure) to government agencies.

Jiangxi Copper Company, China: Advice on the characterization, control and treatment of acid rock drainage, and review of international practices in mine closure as part of a multi-disciplinary program of technical assistance.

Lac Properties, Abandoned Mines, Canada: Technical assistance provided to develop and implement closure strategies for fifteen abandoned mines (fourteen gold, one molybdenum) in northern Ontario and northern Quebec. The work spanned more than five years and included: review and compilation of historical environmental data; design, implementation and reporting of environmental monitoring programs (water, soil, acid generation potential); scoping and management of an environmental and geotechnical review of two tailings management facilities; and preparation of appropriate post-closure documentation for submission to government agencies.

STUDIES AND ASSESSMENTS

Agrium, Kapuskasing Phosphate Project, Canada: Technical advice, assistance with government liaison and consultation, and scoping of the environmental baseline study was provided.

Confidential Client, CVRD Gold Properties, Brazil: Conducted an environmental review as part of a prefeasibility study for a proposed buy-in to the Igarape Hahia open pit gold mine and heap leach. A review was also conducted of two advanced exploration properties: Serra Leste (also know as Serra Pelada) and Aguas Claras. The focus at Serra Leste was on mercury contamination of the water (surface and ground water) and soil associated with recent *garimpeiro* activity, and samples were collected to support the review.

