Case Study

INAP Mine Rock Stockpile Source Control Project

International Network for Acid Prevention (INAP)
Victoria, Australia

> Background

Since 2018, Okane has collaborated with INAP to develop Rock Placement Strategies to Enhance Operational and Closure Performance of Mine Rock Stockpiles (MRS) – Phase 1. The collaboration has since focused on optimizing mine rock placement with an emphasis on source control to mitigate water quality risks from operations through to post-closure by evaluating the question: "How does constructing an MRS with a focus on source control help reduce asset liability to an acceptable level of residual risk?"

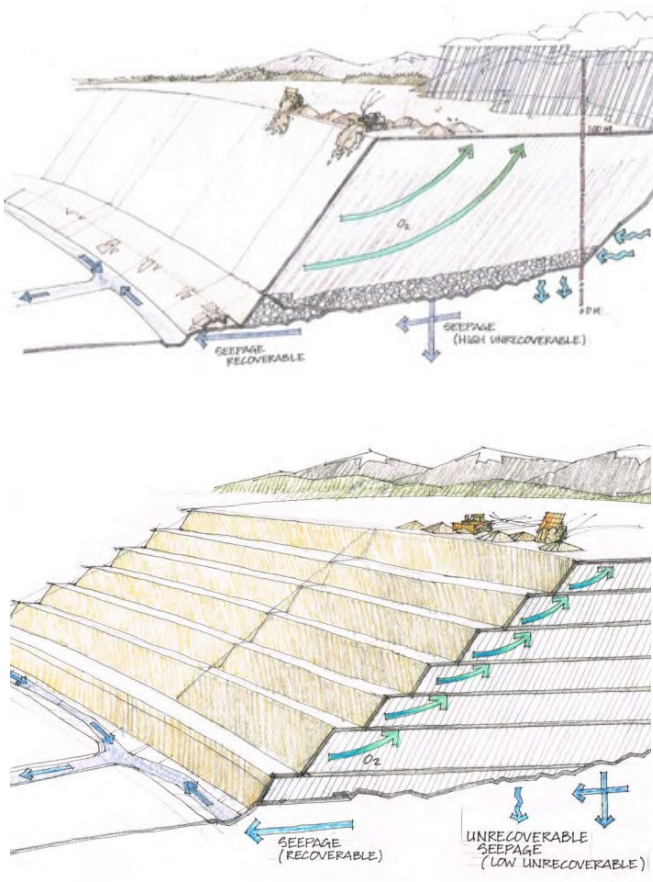
> Approach

Okane leveraged data from two case studies to review the design framework and develop a conceptual model considering site-specific factors such as materials, climate, hydrogeological, and physical setting. This approach supported the development of decision-making tools to demonstrate the benefits of incorporating source control in MRS design and construction across varying climates and physical settings.

> Client Benefit

Our most recent work is summarized in an industry report on ARD/AMD Source Control for Mine Rock Stockpiles – Phase 3. The report outlines how these decision-making tools can be used to optimize mine lifecycle value by incorporating MRS source control, ultimately reducing asset liability to an acceptable level of residual risk.

> ***A framework designed to evaluate and set realistic expectations from the outset regarding the benefits of incorporating MRS source control measures to achieve required closure outcomes.***



International Network for Acid Prevention (INAP). (2024). *Comparison of conventional MRS construction (top) and MRS with source control measures incorporated (bottom)* [Illustration].

Integrated Mine Closure and Relinquishment Solutions

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