



Towards Sustainable Mining
Vers le développement minier durable

Independent Review of TSM Tailings Requirements
Terms of Reference

Mandate: To review MAC's *Towards Sustainable Mining* tailings management requirements, including MAC's Tailings Management Guides and TSM Tailings Management Protocol, and to provide advice on potential improvements to them.

Composition: The review will be conducted by an Independent Task Force chaired by former MAC chair Doug Horswill and will include the following representatives:

1. Geotechnical Engineer – Peter Lighthall (independent consultant, formerly with AMEC and Klohn-Crippen)
2. First Nations/Environmental/Engineering – Nalaine Morin (Tahltan Heritage Resources Environmental Assessment Team (THREAT))
3. Environmental NGO/COI Panel Representative – Alan Young (International Boreal Conservation Campaign and MAC COI Panel Member)
4. Management Systems/TSM Expertise – Dr. Craig Ford (Corporate Responsibility Solutions Inc., Executive in Residence at the Schulich School of Business)
5. Geotechnical Engineer – Dr. John Sobkowicz, Ph.D., P.Eng., Thurber Engineering Ltd.
6. Chair of MAC Tailings Working Group – currently Dr. Michael Davies (Teck Resources)

Dr. Dirk Van Zyl (UBC), who served on the BC Independent Expert Engineering Investigation and Review Panel, will serve as a special advisor to the task force. MAC staff (Ben Chalmers, Nathalie Ross) will provide secretarial and logistical support).

Scope: To review MAC's TSM requirements against the Report of the Mount Polley Independent Expert Engineering Investigation and Review Panel.

While not limited to the following, the independent review is expected to consider:

- Are the current requirements for Level A designation sufficient to reduce, to near zero, the likelihood of a catastrophic tailings failure as a result of a deficiency or weakness in the tailings management system or regime? If not, what should be added to the Tailings Management Protocol?
- What are the elements of the MAC Tailings Guides that should be considered critical controls necessary to prevent catastrophic failures? Are the appropriate critical controls currently in the Guides? If not, what critical controls should be added to the Tailings Management Guides?
- Is MAC support for new and existing Members as it relates to TSM tailings management sufficient?

- Is the verification schedule appropriate or should the initial external verification of tailings management be accelerated?
- Should an independent review of tailings management (e.g. a gap analysis against the TSM protocol) be undertaken for new members prior to the application of TSM?
- Is the focus of TSM and the Tailings Management Protocol and Guides on operation management systems appropriate or should the TSM Tailings Protocol and Guides incorporate standards and/or design elements? If so, how?
- How can the TSM process better build confidence in our communities of interest in the tailings management systems and tailings regulatory regimes across the lifecycle of a mine?

The review may include seeking input and learnings from other associations that have similar initiatives (e.g., Chemistry Industry Association of Canada's *Responsible Care*), and the task force will be expected to consult with MAC's TSM COI Advisory Panel.

Panel Deliverables:

A preliminary report will be presented to the MAC Board at its meeting on June 17 (Ottawa) with a final report due on October 14, to be followed by a presentation to the MAC Board on November 18.

The final report will be made public and posted on MAC's website.