CHAMBER OF COMMERCE CANADA-PERU

WORKSHOP

FREE

Methodology for Estimating Water Treatment Costs at Mine Closure

A certificate of participation will be provided

Wednesday, May 20.

07:45 a.m. to 12:20 p.m.

Bolognesi street 180, 8th floor - Miraflores

*The event is free of charge. Members only.
**Only one (1) representative per company will be allowed to attend.
**If you are unable to attend, please inform us in advance so your spot can be offered to another interested executive.

SPEAKER



Marco Greco

Regional Lead – Mine Closure, South America
Tailings and Mine Closure Practice – Hatch.

Italian engineer based in Peru, holding a Master's specialization in geo-resources (mining, oil & gas, and groundwater). He brings 26 years of professional experience, 17 of which have been in Peru.

He currently serves at Hatch as Tailings and Mine Closure Practice Lead in Peru and Regional Mine Closure Lead for South America. He has managed and led the execution of large-scale studies across all engineering stages for tailings facilities and systems, including dewatering systems, tailings transport systems, filtered tailings stacking design, and conventional tailings storage facilities.

His expertise also spans mine closure engineering and studies, water treatment and management, geochemical, hydrogeological, geotechnical, and environmental assessments, as well as closure-related investigation and instrumentation, contaminated site remediation, and energy projects (including thermal power plants, energy efficiency initiatives, and renewable energy–powered facilities).

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Workshop description

Modern mining faces one of its greatest challenges: the economic internalization of environmental externalities in both projects and mining operations. In this context, a key factor is the early and comprehensive identification of the studies required to accurately estimate post-closure water treatment costs. These studies support informed and holistic decision-making, ultimately enhancing the quality of closure engineering.

This process requires a clear methodology: identifying the problems, understanding the available tools, and defining the sequence in which they should be applied. Therefore, this workshop aims to explain the relevant closure studies, their level of detail, and their sequence to estimate water treatment costs during mine closure and post-closure stages.

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Objectives:

- Identify the key issues that must be addressed to estimate water treatment costs at closure.
- Understand methodologies and tools to quantitatively and qualitatively estimate water flows requiring treatment.
- Understand methodologies and tools that support alternative selection and decision-making.
- Develop basic competencies to design and implement integrated systems involving covers, water management, water treatment, and proper effluent discharge.

Content:

BLOCK 1

TOPIC 1

Cover Systems

- Identification of cover systems and climatic conditions.
- Identification of borrowing materials and quarry development.
- Identification of cover material characteristics.
- One-dimensional and quasi-two-dimensional modeling of cover systems.

TOPIC 2

Water Quantity at Closure

- Water balance at closure
- Technical tools and practical case studies
- Extreme scenarios
- Water balance vs. regulation systems
- Interaction with hydrogeological models

BLOCK 2

TOPIC 3

Water Quality at Closure

- Geochemical and mineralogical characterization
- Predictive hydrogeochemical models by component
- Integrated water quality model

TOPIC 4

Treatment Systems

- Treatment objectives
- CAPEX
- OPEX



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Program

Participants registration / welcome coffee	07:45 a.m. a 08:00 a.m.

BLOCK 1:	TOPIC 1	TOPIC 2
08:00 a.m. a 10:000 a.m.	Cover Systems	Water Quantity at Closure

Coffee Break	10:00 a.m. a 10:20 a.m.

BLOCK 2:	TOPIC 3	TOPIC 4
10:20 a.m. a 12:00 p.m.	Water Quality at Closure	Treatment Systems
12:00 p.m. a 12:15 p.m.	GROUP ACTIVITY	

Closing Remarks	12:15 p.m. to 12:20 p.m.

