



Hydraulic Dewatered Stacking Pilot experience new technology

Innovación Disruptiva y Sostenibilidad de Relaves en la Minería Global

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What is Hydraulic Dewatered Stacking?



Hydraulic Dewatered Stacking (HDS) is an advanced, engineered co-disposal technique that enhances tailings management by utilizing a fines-free sand fraction—typically sourced from the tailings themselves. This sand is strategically placed to form continuous, permeable channels within the stack, significantly shortening drainage paths. The result is accelerated water removal and rapid consolidation of the tailings mass, improving overall stability, reducing environmental risk, and enabling more efficient land reclamation.

"Water Is the Problem—Dewatering Is the Solution"

"How Do We Build a Non-Saturated Tailings Facility—**Without Filters?**"

→ By Using Sand Drainage Berms for Passive, capillarity -Driven Dewatering



Sand Drainage Berms construction



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Water recovery is strong



Water recovery is fast

Quality is good

Geochemistry is similar





Summary

Hydraulic Dewatered Stacking (HDS)

✓ Strengths

Validated Scientific Hypothesis: Early results support the underlying concept and mechanism.

Rapid Water Recovery: Demonstrates fast and efficient dewatering performance.

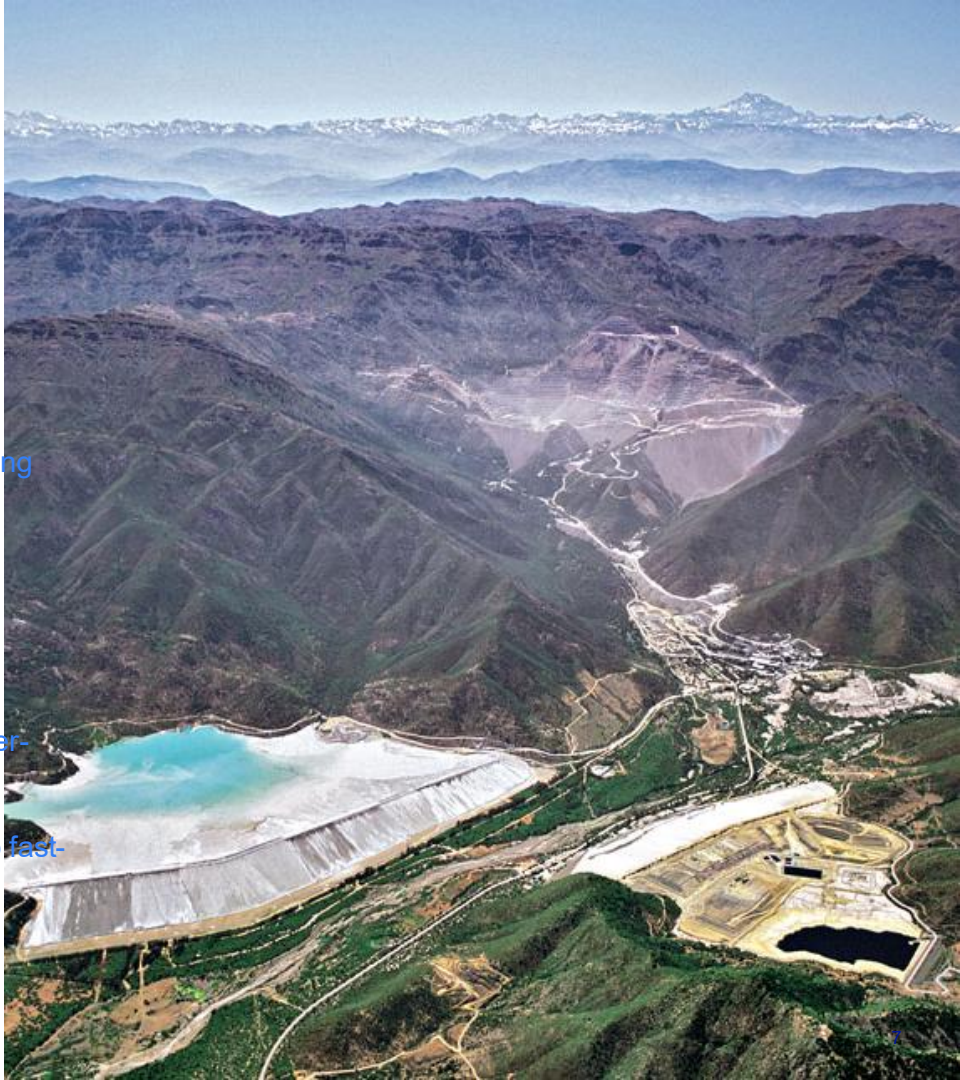
Strong Techno-Economics: Promising cost-benefit profile with potential for operational savings and environmental gains.

⚠ Challenges

Scaling Up: A new machine is under development to support larger-scale deployment.

Commercial Acceleration: Strategic partnerships are needed to fast-track adoption.

Application Optimization: Still learning where HDS delivers the greatest value—it's not a one-size-fits-all solution.





THANKS

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