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TNA- Tailings News Alerts

Up-to-date News and Information on Tailings Dams and Engineered TSF

NEWSMAKERS: * BHP * Brumadinho * ExcelPlas * First Quantum * Flottweg * FLSmidth * Freeport-McMoRan * HR Wallingford * Geo-X * GHD * Golder Associates * PanAust * PDAC * Position Partners * Ramjack * RioTinto * Swift GeoSpatial * Teck * TenCate * TNA * TSF * Worldsensing * Vale

INDUSTRY NEWS

Vale Begins \$2.3 billion Filtered Tailings & Dry Stacking Journey with First Plant Start Up at Vargem Grande Complex

<https://im-mining.com/2021/03/17/vale-begins-2-3-billion-filtered-tailings-dry-stacking-journey-first-plant-start-vargem-grande-complex/>

<https://www.miningmagazine.com/geomechanics-ground-control/news/1406682/vale-starts-tailings-filtration-plant-at-vargem-grande>

Entire Villages Would be Wiped Out if Natural Disaster Hit Proposed Tailings dam on PNG PanAust Mine, Critics Say

<https://www.theguardian.com/world/2021/mar/14/entire-villages-would-be-wiped-out-if-natural-disaster-hit-dam-on-png-mine-critics-say>

Modeling the Brumadinho Tailings Dam Failure – Hosted by Chartered Institute of Water and Environmental Management (CIWEM)

<https://www.youtube.com/watch?v=5gDmCg12nQc>

Geo-X Complete Massive 1 Million m2 HDPE Lined Gamsberg Zinc Tailings Storage Facility (TSF) Designed by Knight Piesold

<https://www.knightpiesold.com/en/projects/gamsberg-zinc-mine/>

Endeavour Mining MINE TAILINGS DISCLOSURE TABLE (Declassified)

[https://s21.q4cdn.com/954147562/files/doc_downloads/2021/02/210210_Mine-Tailings-Disclosure-Table_vf-\(1\).pdf](https://s21.q4cdn.com/954147562/files/doc_downloads/2021/02/210210_Mine-Tailings-Disclosure-Table_vf-(1).pdf)

HR Wallingford Publishes Animation Modelling the Brumadinho Tailings Dam Failure

<https://www.youtube.com/watch?v=J9k0-gX1P4Q>

'Clock Ticking' on Tailings Dams, PDAC hears

<https://www.mining-journal.com/events-coverage/news/1406450/clock-ticking-on-tailings-dams-pdac-hears>

Transparency, Disclosure and 'Bat-Phone' Improving Tailings Dam Safety

<https://www.mining-journal.com/innovation/news/1405922/transparency-disclosure-and-bat-phone-improving-tailings-dam-safety>

TAILINGS DAM SURVEILLANCE

New Tailings Dam Surveillance Technology

<https://www.positionpartners.com.au/position-partners/evolution-mining/>

Worldsensing Adds Deformation Monitoring to IoT Tool

<https://www.miningmagazine.com/geomechanics-ground-control/news/1405209/worldsensing-adds-deformation-monitoring-to-iot-tool>

RAMJACK Tailings Dam Monitoring System Consists of Unique Arrays of Piezometers, Extensometers and Inclinometers

<https://ramjacktech.com/our-expertise/monitor/tailings-dam-monitoring/>

TAILINGS DEWATERING

Flottweg Tailings Decanter Centrifuge for Tailings Dewatering

<https://www.flottweg.com/applications/industrial-waste-mineral-oils/tailings/>

TAILINGS REMEDIATION

Bioleaching of Uranium Tailings as Secondary Sources for Rare Earth Elements Production

<https://www.mdpi.com/2075-163X/11/3/302/pdf>

Mercury Mine Tailings Amended with Biochar

<https://www.sciencedirect.com/science/article/abs/pii/S0048969720374908?via=ihub>

Systematic Characterization of Historical Tailings for Possible Remediation and Recovery of Critical Metals and Minerals

<https://www.sciencedirect.com/science/article/pii/S0375674221000558>

Crop Uptake of Heavy Metals in Response to the Environment and Agronomic Practices on Land Near Copper Mine Tailings

<https://link.springer.com/article/10.1007/s10653-021-00849-7>

Use of Plants and Crops to Remediate Magnesite Mine Tailings (Phytoremediation)

<https://www.cabdirect.org/cabdirect/abstract/20210086961>

Growth Responses and Accumulation Characteristics of Three Ornamental Plants to Tin Contamination in Soil

<https://search.proquest.com/openview/39d596db66d17c8da938e722cbac646f/1?pq-origsite=gscholar&cbl=2032441>

Flocculation Settling Characteristics of Ultra-Fine Iron Tailings with Rich Gypsum

<https://www.hindawi.com/journals/ace/2021/6671704/>

Effective Utilization of Extracted Titanium Tailings to Prepare High Performance Glass-Ceramics

<https://www.sciencedirect.com/science/article/pii/S0272884221007173>

Comprehensive Benefit Evaluation of Cemented Paste Backfill of Tailings in the Mining Industry

<https://www.hindawi.com/journals/ace/2021/6646671/>

ENVIRONMENTAL IMPACTS

Impacts of Exposure to Mine Tailings on Zooplankton Hatching from a Resting Egg Bank

<https://link.springer.com/article/10.1007/s10452-021-09844-7>

High Throughput Screening of Native Species for Tailings Eco-Restoration Using Novel Computer Visualization for Plant Phenotyping

<https://www.sciencedirect.com/science/article/abs/pii/S0048969721015588>

Tailings Dust Characterization and Impacts on Surface Water Chemistry at an Abandoned Zu-Pb-Cu-Au-Ag Deposit

<https://www.sciencedirect.com/science/article/abs/pii/S0883292721000597>

Seismic Stability of Coal Tailings Dams with Spatially Variable and Liquefiable Coal Tailings

<https://pennstate.pure.elsevier.com/en/publications/seismic-stability-of-coal-tailings-dams-with-spatially-variable-a>

Formation and Evolution Characteristics of Dam Breach and Tailings Flow From Tailings Dam Failure

<https://link.springer.com/article/10.1007/s11069-021-04649-1>

NEW WEBINARS

Webinar - Geospatial Strategies for Tailings Storage Facility (TSF) Management

<https://www.esri.com/videos/watch?videoid=TGZnWodd4rA&title=geospatial-strategies-for-tailings-storage-facility-tsf-management>

Webinar - Friday, April 9, 2021 Mr. William E. (Bill) Cobb Vice President and Chief Sustainability Officer – Freeport-McMoRan Americas

“Meeting Escalating Stakeholder Expectations of the Mining Sector”

<https://www.eme.psu.edu/calendar/shoemaker-lecture>

“Soft Site Impoundment Closures for Mining Using Geosynthetics” by Chris Lawson, April 20, 2021

<https://www.acigs.org/civicrm/?page=CiviCRM&q=civicrm/event/info&reset=1&id=23>

Webinar: The Latest Technologies for Managing Risks in Mines with Q&A

<https://www.youtube.com/watch?v=qUnBSALzCSY&t=6s>

NEW JOBS

First Quantum Minerals Seeking Group Engineer, Tailings Storage Facilities and Water Dams

<https://za.linkedin.com/jobs/view/group-engineer-tailings-storage-facilities-and-water-dams-at-first-quantum-minerals-2441332630?refId=b520f1dd-09e1-4936-ad5f-f602bb107db6>

Newcrest Seeking Superintendent- Tailings Impoundment Construction in Canada

<http://careers.newcrest.com.au/caw/en/job/979844/superintendent-tailings-impoundment-construction>

GHD Seeking Geotechnical Engineers - Tailings & Mine Waste

<https://au.linkedin.com/jobs/view/geotechnical-engineers-tailings-mine-waste-at-ghd-2446399930>

Knight Piesold Seeking Tailings Engineer / Dams Engineer for Perth, Western Australia, Australia

<https://au.linkedin.com/jobs/view/tailings-engineer-dams-engineer-at-knight-piesold-2463735442>

Teck Seeking Tailings Business Improvement Engineer

https://jobs.teck.com/job/Vancouver-May-2021-Tailings-Business-Improvement-Co-op-BC/721649500/?locale=en_US

FREE LITERATURE TO DOWNLOAD

Design of Coarse Tailings and Dry Ash Disposal Facilities

https://papers.acg.uwa.edu.au/d/1910_04_Copeland/04_Copeland.pdf

Fifty-Seven Major Tailings Disasters Since 2000

Using tailings insights to support safer TSF management

TSFs are some of the world's biggest engineering structures, and one of the greatest risks for mine owners, and the communities and environments in which they operate, is the far-reaching damage that occurs if they fail.

February marked the two-year anniversary of one of the most significant tailings dam failures in history – the Córrego do Feijão operation in Brumadinho, Brazil which took 270 people's lives.

The Brumadinho tailings disaster triggered an unprecedented overhaul of global safety regulations leading to the introduction, in mid-2020, of the world's first global safety standards for tailings management.

Resources companies are now required to be more transparent in their disclosure of tailings risk and insurers have been quick to line-up behind the new standards making insurance cover difficult to secure unless miners can demonstrate standards compliance.

<https://www.tailingsnews.com.au/>

This Newsletter is brought to you by Excelplas Labs, Australia's Largest group of Polymer Testing Labs.

<http://www.excelplas.com/>

Any news requests should be sent to john@excelplas.com

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