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Time Sensitive Messaging for the Global Geosynthetics Industry

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NEWSMAKERS: * Concrete Canvas * Dennevirke Dam * ExcelPlas Testing Labs * EuroBent * Geofabrics Australia * Geotextile Groynes * GNA * InterAx™ * Keystone * Knight Piesold Consulting * NZ * PFAS * PV * Selective Laser Sintering * SLS * Solar Farms * Solvay * Strata Geosystems * Tensar * Tiltex™

BREAKING NEWS

EuroBent Press Release - Untrue and Misleading Information Published In The Press Release Of Concrete Canvas Dated 16 June 2023
https://cloud.excelplas.com/s/ItNAwck1okwQhSf

NZ Water Supply Dam with Failed Geomembrane Liner Labelled a 'Dead Duck'
The Dennevirke dam has been under investigation by the Tararua District Council since June 2021 when leaks in the lining were discovered.
Temporary repairs have been made, but engineering consultants have told the council there is a risk to the dam's structural integrity and it must be repaired sooner than originally planned.
The "dam is the part that was built up" and soil particles were washing through stone, which was in direct contact with the liner.
"That's leading to depressions and increased flows."
No geotextile cloth was laid prior to the liner going on in 2013, and she said the "entire subsoil network" had to be remediated.
The one in fifty plus year drought caused the ground to dry and contract which, when paired with the lowering reservoir level, exposed the plastic liner on the reservoir causing it to vibrate and wear until it finally failed from fatigue. The splits found in the plastic liner allowed for water to start removing the protective clay layer below, exposing the liner to underlying stones which then increased the damage. Once the reservoir began refilling, only then did the leak become

obvious, and water moving over the liner was able to be detected.
Given that leaks of reservoirs with liners is rare, experts have had to come in from across the Country to investigate the source and points of the leak. We can now confidently say that our team has inspected all seams and points of suspicion.
Council also brought in an underwater drone on 2 separate occasions to assess the liner in the reservoir. With the first drone focusing on the bottom of the reservoir and assessing the “plug hole”, the point at the bottom which the water outlet is taken and fed to the treatment plant. There was no visible leak from this point. The second drone focused on the walls and liner, when the drone pointed up, we saw a tear in the cover and some small holes. We have now been able to expose this area for later repair as the weather again closed in for another fortnight.
Up to four tonnes of protective lime has been replaced and compacted below the liner covering the hillside metal that was exposed during the event. In addition, an extra thick layer of geomembrane material has also been installed to mitigate this from reoccurring. In recent years, this extra layer has been considered best practice and was installed in the new Woodville water reservoir.
https://www.stuff.co.nz/manawatu-standard/300915777/dannevirkes-dam-will-need-to-be-drained-this-summer--ratepayers-say-its-a-dead-duck
https://tararua.matrix.squiz.cloud/tararuadc/news/2021/dannevirke-impounded-water-supply-has-had-significant-progress

INDUSTRY NEWS

New Methods of Producing Geomembranes by Selective Laser Sintering (3 min read) [PDF]
https://www.excelplas.com/new-methods-of-producing-geomembranes-by-selective-laser-sintering/

White Geotextiles Found to Increase of Solar PV Systems
https://www.royalsblue.com/how-a-white-foil-increases-the-performance-of-your-pv-system/

Germany-based Solar Kapital Using White Geotextile at three of its PV plants in Greece to Increase PV Yield by 6%
According to Solar Capital, the payback period for laying out the geotextile at around two and a half years, which is based on a feed-in tariff of 7.3 cents per kilowatt hour.
https://www.pv-magazine-india.com/2023/06/30/developer-using-membranes-to-increase-bifacial-solar-module-yield-by-6-4/

Advantages of Solar Farm Construction with InterAx Geogrid
https://geosyntheticsmagazine.com/2023/06/26/advantages-of-solar-farm-construction-with-interax-geogrid/

Keystone and Geofabrics Takes Retaining Wall Systems to New Heights with Geogrid Reinforcement
Partnering with Keystone and Geofabrics, Austral Masonry introduced Keystone TW3 to enable engineering of taller retaining walls with improved performance thanks to its mechanically connected geogrid reinforced system.
https://createdigital.org.au/retaining-walls/

ExcelPlas Testing Geomembrane Resistance to Hot Brine in Produced Water from CSG [PDF]
https://www.layfieldgroup.com/wp-content/uploads/2023/06/Geomembrane-Resistance-to-Hot-Brine-in-Produced-Water-and.pdf

Knight Piésold Conduct Prefeasibility Study for Tailings Dam at Côte d'Ivoire Project
Knight Piésold Consulting carried out a prefeasibility study of the site infrastructure for Doropo including a tailing storage facility (TSF)?, water storage/harvest dam, airstrip and haul access road. The TST has been designed in accordance with the Global Industry Standard on Tailings Management and the Australian National Committee on Large Dams guidelines.
https://www.engineeringnews.co.za/print-version/centamin-to-proceed-with-dfs-at-economically-robust-cte-divoire-project-2023-06-27

GEOMEMBRANES

Snakeskin-Inspired Rib Patterns for Geomembranes [PDF]
https://cloud.excelplas.com/s/intBWlJO43N8jVy

Laboratory Investigation of the Effects of Asperity Concentration and Geotextile-Type on Geomembrane/Geotextile Interface Shear Characteristics
https://www.issmge.org/uploads/publications/1/120/ICSMGE_2022-1.pdf

An Investigation of Field Performance of Geomembrane-Geosynthetic Clay Liner Landfill Bottom Lining Systems [PDF]
https://cloud.excelplas.com/s/DyDXJIDnkATi4H7

Field Investigation of Temporal Variation and Diffusion of Hydrogen Sulfide on Waste Working Face and Intermediate Landfill Cover
This observation indicated that the geomembrane can reduce H2S emissions
https://www.sciencedirect.com/science/article/abs/pii/S0956053X23004580

Premature Failure of Geomembrane Floating Covers in Australia: Causes, Comparisons, and Recommendations [PDF]
https://www.layfieldgroup.com/geosynthetics/resources/knowledge-center/premature-failure-of-geomembrane-floating-covers-in-australia-causes-comparisons-and-recommendations/

PFAS NEWS

Solvay to Pay $392 million in New Jersey PFAS Settlement
https://www.rubbernews.com/pfas/solvay-agrees-pay-392m-address-new-jersey-pfas-clean?utm_source=rpn-daily-news-email-friday&utm_medium=email&utm_campaign=20230629&utm_content=article2-readmore

4 Companies Reach PFAS Settlements, Agree to Pay More than $11 Billion
https://cloud.excelplas.com/s/ZSb5aOJIw4zFuC9

GEOTEXTILES

Experimental Study on Bulge Deformation of Geotextile Under Ring-Restrained Conditions
https://www.extrica.com/article/23042/pdf

GEOTEXTILE SAND CONTAINERS

Western Australia to Spend $3.5 million for Coastal Erosion Projects Including $615,000 for Construction of Four Geotextile Groynes
https://www.wa.gov.au/government/media-statements/Cook-Labor-Government/$3.5-million-for-coastal-erosion-and-support-planning-projects--20230629

GEOGRIDS

Estimating the Overall Modulus/CBR of Geosynthetic-Reinforced Extremely Weak Subgrades
https://eprints.qut.edu.au/238539/1/Ashan%2BPathirana%2BThesis%283%29.pdf

GEOSYNTHETIC DIGITAL MARKETING

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https://www.geosyntheticnews.com.au/

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https://www.youtube.com/watch?v=QCkE3q3sHPg

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We have extensive experience with all types of geosynthetics - from geomembranes (HDPE, LLDPE, fPP), geotextiles to geonets, geogrids, geocomposites, and geosynthetic clay liners (GCLs).
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results every time.

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- To promote and educate on the development of specifications and practices that help ensure the proper use of geosynthetics.
- To locate, interpret and disseminate new scientific research to manufacturers and users of geosynthetic materials.
- To enhance the knowledge and awareness of contemporary geosynthetic technologies amongst specifiers, users, and installers.

GNA – World’s Leading Source of Breaking News on Geomembranes, Geotextiles, and other Geosynthetics

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