



GEOFABRICS JOURNAL INTERNATIONAL

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GEOFABRICS ON THE WORLD STAGE

The world's best soccer players will play on recycled milk and soft drink bottles during this year's FIFA World Cup in South Africa.

Geofabrics has supplied more than 20,000m of our Megaflo® system to help deliver a world-class surface. Megaflo® was installed beneath six major arenas – Soccer City in Johannesburg, Mbombela in Nelspruit, the Sugar Ray Xulu, Green Point Stadiums in Cape Town, the Princess Magogo and Moses Mabhida Stadiums in Durban.

The decision to use the Megaflo® system in the FIFA 2010 World Cup stadiums vindicates our belief in the product and shows that Australian manufacturers can compete on the world stage. We are excited to be a part of such a major sporting event.

Unlike traditional drainage systems, the Megaflo® panel drain can be installed flat, thereby not disturbing the carefully prepared base as well as saving the significant time and money normally spent digging trenches.

The quick removal of water would allow the stadiums to provide superb playing conditions.

The Megaflo® system uses recycled milk bottles for the plastic core and recycled soft drink bottles for the geotextile filter layer.

The Megaflo® system is manufactured in Albury and has been exported throughout South-East Asia, India & New Zealand for the past decade, and has now found new applications in sports stadiums.



WATCH THIS SPACE

WATCH THIS SPACE CAREFUL OBSERVERS WILL NOTE THE NEW GEOFABRICS LOGO UNVEILED IN THIS "GEOFABRICS JOURNAL".

THE NEW LOGO REFRESHES THE GEOFABRICS BRAND TO REFLECT OUR MATURING AND EVOLUTION OVER THE PAST 30 YEARS.

COASTAL EROSION SYSTEM BEATS QUEENSLAND CYCLONES FOR 10 YEARS

RESEARCH CONDUCTED IN 2010 ON THE ELCOROCK® COASTAL EROSION SYSTEM OUT-PERFORMS EXPECTATIONS.

ELCOROCK® is an Australian developed world-leading beach erosion protection system, where sand filled geotextile containers are used to form groynes, shoreline revetments or breakwaters.

Research during January 2010 at the Geosynthetic Centre of Excellence into the ELCOROCK® coastal erosion system installed in 2001 at Maroochydore has proven the durability of the system. These groynes were the first structures to use the unique vandal-deterrent geotextile developed for the harsh coastal environment. The results showed a minimal loss of strength despite being exposed to the Queensland sunlight and cyclones through the decade.

This research is important, as it confirms the systems resistance to UV exposure and abrasion from sand.

The use of the vandal deterrent system was essential to the structures performing so well over the decade. The results confirm a life expectancy of over 20 years for structures built using the vandal-deterrent geotextile containers.

The in-service exhumation project supported the accelerated UV exposure testing conducted over the past year, where international laboratories tested the ELCOROCK® system for 6,000 hours in high ultra-violet radiation, humidity and temperature to accelerate weathering. This is 40 times the international standard for geotextile accelerated UV testing of 150 hours.

The ELCOROCK® coastal erosion system has been supported by extensive R&D over the past 15 years, including extensive stability testing at the Manly Water Research Laboratory in 2009.

ELCOROCK® shoreline protection



GEOFABRICS INTERNATIONAL SOLUTION FOR FIFA WORLD CUP SOCCER

Geofabrics International is proud to be associated with solutions for both the FIFA World Beach Soccer Tournament in Dubai 2009 and the FIFA World Cup Soccer tournament in South Africa 2010.

In Dubai, a temporary geobund wall (made from ELCOMAX® 1200R geotextile) was used to provide erosion protection for the beach soccer fields for this world tournament. The Geobund wall was designed by International Coastal Management and construction by Ecocoast Marine Contracting.

For more details

e-mail r.mcilwraith@geofabrics.com.au

Some action from the World Beach soccer tournament in Dubai



GEOSYNTHETIC CENTRE OF EXCELLENCE ARRIVES

In March 2010, Geofabrics will proudly open our new Geosynthetic Centre of Excellence on the Gold Coast.

Established to support Australian engineers' understanding of geosynthetics, the Geosynthetic Centre of Excellence is a major milestone for Geofabrics. Housing testing equipment that is unique in Australia, the dedicated R&D laboratory offers engineers the opportunity to ensure the design and specification of geosynthetic systems aligns with the project requirements.

The Geosynthetic Centre of Excellence is an open environment, where designers, owners and regulators work with our technical team to research practical applications of geosynthetics in complex environments.

Linkages with leading research institutions will be developed to disseminate and encourage shared learning amongst the Australian and regional engineering profession.

Recent projects for the centre include comparative testing of the flow rates of landfill drainage systems and compatibility testing of geotextiles with the waste liquor produced by a mine site.

THE GEOSYNTHETIC CENTRE OF EXCELLENCE IS DESIGNED TO

- > Ensure the Geofabrics product range is optimised and adapted for emerging applications
- > Provide evidence-based research to help customers select the right product for critical applications
- > Solve site-specific problems at mines, waste containment facilities and other sites
- > Provide access to testing equipment that is the first of its kind in Australia
- > Foster collaboration between Geofabrics and the local and international academic community
- > Meet challenges that are particular to Australia, such as working with acid sulphate soil

Engineers wishing to work collaboratively with the Geosynthetic Centre of Excellence are to contact Warren Hornsey, the National Technical Manager

for Geofabrics on w.hornsey@geofabrics.com.au.



CONTINUOUS RESEARCH AND DEVELOPMENT GCL AND BENTONITE TECHNOLOGY

Below is an extract of the technical paper titled "Geosynthetic Clay Liners—Is the Key Component being Overlooked" by Gates, Hornsey and Buckley. This paper was presented at the GeoAfrica conference in Cape Town held in September 2009.

"As bentonite is the key component of GCLs, its properties should become the focus of specifications in waste containment applications. The traditional specification methods which define bentonite quality or performance, i.e. swell index, fluid loss and permeability with deionised water, are essentially manufacturing quality control tests and should not be considered the only criteria for specifying a GCL. Without taking into account other bentonite-specific qualities, the designer may be overstating the performance of the GCL which could jeopardize the long term performance of the liner system".

For more details please see the full paper at http://www.geofabricsinternational.com/webfiles/GeofabricsInternationalAU/files/GCL_Is_the_key_componant_being_ignored.pdf

Golf Photo Competition

Win 2 X Apple iPod Touch 8GB!

You will probably have felt the thrill of playing out of a well constructed bunker, as well as the disappointment of playing out of a poorly maintained bunker!

Now we are giving you the chance to win one of 2 x Apple iPod Touch 8GB for your photos of the "Best and the Worst Golf Bunkers in the World". Submit your photos and stand a chance to win!

Competition rules

- 1 One Apple iPod Touch 8GB each will be awarded to the winners of each of the two categories which are "Best Bunker in the World" and "Worst Bunker in the World".
- 2 Photos should be sent to a.reardon@geofabrics.com.au with your details and the location of the bunker.
- 3 Entries close on 30 April 2010. Winners will be announced on 15 May 2010
- 4 A maximum of three entries per person
- 5 This competition is not open to employees of Geofabrics Australasia and their immediate family.
- 6 The judge's decision will be final.

Good luck!

WHY NOT VISIT OUR WEBSITES FOR FURTHER INFORMATION

For information relating to our Golf Products / Solutions

> Geofabrics-Golf - www.geofabrics-golf.com

For information relating to our Geosynthetic Clay Liners

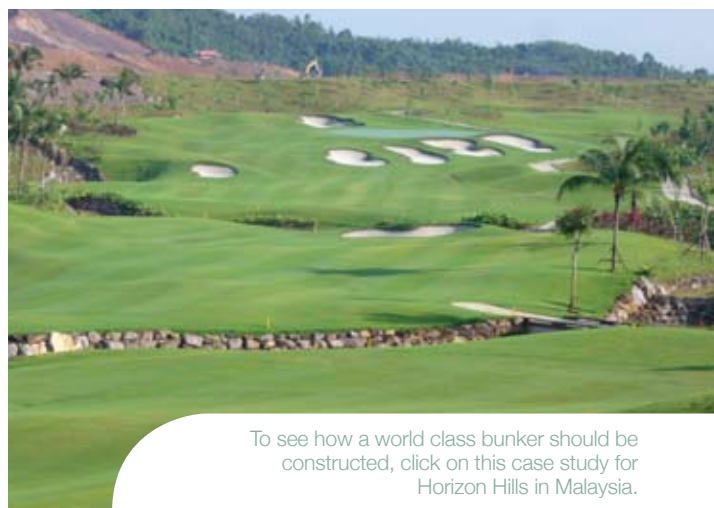
> GCL Alliance - www.clay-liner.com

For information relating to our Sand Filled Containers

> ELCOROCK - www.elcorock.com

For information relating to India

> Geofabrics India Pvt Ltd - www.geofabrics.co.in



To see how a world class bunker should be constructed, click on this case study for Horizon Hills in Malaysia.

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