



GEOFABRICS CASE STUDY



ELCOROCK PROTECTS NORTHERN BEACHES FROM EAST COAST LOW

PRODUCTS USED

ELCOROCK® GEOTEXTILE SAND CONTAINER

- Made in Australia with Texcel geotextile - a unique staple fibre blend of polyester and polypropylene, providing flexibility and allowing the product to resist the natural forces of the marine environment
- Filled with sand and used to form a stabilising and defensive barrier against erosion in harsh coastal environments by building breakwaters, sea walls, revetments, groynes and artificial reefs
- Highly resistant to abrasion, hydrocarbon, impact damage and UV degradation
- Precise size and shape can be made to meet site specific requirements



DAVID MORGAN
SALES ENGINEER

☎ 0439 553 364

✉ D.MORGAN@GEOFABRICS.COM.AU

📍 SYDNEY, NSW

PROJECT DESCRIPTION

In May 2016, New South Wales capital city, Sydney and surrounding regions experienced an extreme East Coast low - causing major damage to waterfront homes at Collaroy Beach. The homes were rendered uninhabitable and it was predicted that another storm would hit in approximately ten days. As a result, the Northern Beaches Council commenced emergency temporary works in an endeavor to prevent further damage to the properties.

OUR SOLUTION

The Northern Beaches Council engaged a team of coastal engineers to find a solution. The engineers recommended the Geofabrics Elcorock Geotextile Sand Container system - a solution engineered specifically for installation erosion control in coastal and riverine environments.

Installation commenced on a Saturday after the debris was cleared from the beach. Geofabrics was available on-site to guide installers with the Elcorock Sand Container filling and installation process. The council did not want to reduce the local sand currently on the beach so the Elcorock Sand Containers were filled with imported sand. Two layers of Elcorock Geotextile Sand Containers were placed before the second storm arrived.

The project proceeded expeditiously and was completed within the ten day period. The Northern Beaches Council were pleased with the overall process, and the timely emergency supply and support from Geofabrics.

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