

# Case Study

Project: **Elliott Heads**  
 Location: **Elliott Heads, Central Queensland, Australia**  
 Contractor: **Coastal Rockscapes Pty Ltd**  
 Consultant: **ICM**  
 Date: **2006 - 2007**



## ELCOROCK®

Elliott Heads is located on the coast, 18kms, south east of Bundaberg in Queensland. The site is located on the southern side of the Elliott River known as Coonarr Beach.

In 1952, a cyclone exposed a channel in the existing low lying land property and beachfront gradually eroded away, leaving a small island out off the point. The island is locally now known as Dr May's Island. Some 320m of freehold land and beach frontage has been lost. The island is now approx. 600m off the mainland.

International Coastal Management (Gold Coast) was commissioned in 2004 to design a wall and groyne system to alleviate the long term erosion. The E.P.A. agreed that the proposal to use the ELCOROCK® 2.5m<sup>3</sup> sand containers was the best solution for this proposal.

The groynes design was 160m long by 10m wide with approx. 985 containers. The design was completed in early 2006 after lengthy reviews. The containers were preferable to historic methods as they provide a safe, environmentally and aquatic friendly solution within the estuarine system. Works started in late November 2006 and it was completed in January 2007 by an experienced contractor, Coastal Rockscapes Pty Ltd who are based in Caloundra.

As part of the construction process, Geofabrics Australasia supplied the filling frame system for the 2.5m<sup>3</sup> containers as well as onsite service and supervision. After one week of construction, it was quite noticeable that the beach was already starting to replenish.



*During construction of groynes*

ELCOROCK® provided the client with the optimum solution. ELCOROCK® was judge the most effective solution based on a limited site access, the ease of construction, minimum resources, using site won material enabling a considerable reduction in costs.

The local shire council officers stated that they would watch the process with anticipation with a view of continuing the groyne onto Dr. May's Island.



*Completed groyne*



*Project complete – January 2007*

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