

Case Study

Project: ELCORock® - Pelican Point Protection
 Date: January 2004
 Client: Lake Macquarie Council
 Location: Lake Macquarie, New South Wales



Lake Macquarie the largest salt-water lake in Australia, is located south of Newcastle and approximately 120km north of Sydney. The lake has an overall length of some 22km and a width of almost 8km covering an area of approximately 110 square kilometres. Much of the catchment, particularly the foreshore and surrounds is extensively urbanised and as a consequence the lake is extremely environmentally sensitive.

The dynamics within the lake are complex and many areas are experiencing severe erosion. A particular section of the eastern foreshore of the lake, near Pelican was experiencing increasing erosion action. As a result, a design brief was prepared by the office of the Lake Macquarie & Catchment Co-ordinator, a state government initiative, to examine measures to minimise any further progress of this erosion.



Container placement



Completed project February 2004

A revetment consisting of ELCORock® sand filled geotextile containers was selected based on their suitability in marine environment, their cost savings, ease of construction and an important consideration, that of a user friendly structure.

Approximately one hundred 0.75m³ containers were installed under supervision of Geofabrics Australasia and ELCO Solutions Australia engineers. The resulting structure has pleased the authorities and residential groups alike, and it is likely that further ELCORock® structures will be constructed at critical locations around Lake Macquarie.

www.geofabrics.com.au

MELBOURNE
 (03) 8586 9111
 Fax: (03) 8586 9186

SYDNEY
 (02) 9821 3277
 Fax: (02) 9821 3670

BRISBANE
 (07) 3279 1588
 Fax: (07) 3279 1589

PERTH
 (08) 9309 4388
 Fax: (08) 9309 4389

ADELAIDE
 (08) 8293 3613
 Fax: (08) 8293 1306

NEWCASTLE
 (02) 4950 5845
 Fax: (02) 4950 5895

HOBART
 (03) 6273 0511
 Fax: (03) 6273 0686

TOWNSVILLE
 (07) 4774 8222
 Fax: (07) 4774 8655

Technical Enquiries: 1800 4 BIDIM (1800 424 346)