

Case Study

Project: Maroochy Beach Groynes 2, 3 & 4
Location: Sunshine Coast, Queensland, Australia
Client: Maroochy Shire Council
Contractor: Rick Evans Rock Walls
Consultant: WBM Oceanics & International Coastal Management
Date: April 2003



ELCOROCK®

The first ELCOROCK® groyne constructed using 2.5m³ containers in November 2001, had proven to be a success. The structure was stable under severe wave attack, was user friendly, aesthetically pleasing and the vandal deterrent geotextile had performed beyond expectations.

This allowed the council to approve the second phase of the project which consisted of a further 3 groynes to protect the exposed headland.

The groynes were as follows:

- Groyne 2 - 92m long & up to 3.9m high.
- Groyne 3 - 47m long & up to 3.25m high.
- Groyne 4 - 71m long & up to 3.9m high

The areas between the groynes were nourished with 30,000m³ of sand from a sand source north of the Maroochy River.

ELCO Solutions Pty Ltd provided the specialised, filling and placement equipment, to ensure effective filling and simplified placement of containers.

A total of 2,000 2.5m³ vandal deterrent containers were used for the construction of the 3 groynes. The construction period was 2 months.



During construction

A close working relationship between the client, contractor and supplier ensured the project was completed on time and within budget.



Project complete



Aerial view of groynes

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