

Case Study

Project: **Maroochydoore Sea Wall**
 Location: **Sunshine Coast, Queensland, Australia**
 Client: **Maroochydoore Shire Council**
 Contractor: **Rick Evans Rock Walls & Maroochy Shire Council**
 Date: **2000 - 2001**



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Severe erosion taking place along the beach south of the mouth of the Maroochy River was beginning to jeopardise the Cotton Tree Caravan Park. The caravan park is very popular with both local and interstate visitors.

The Maroochy Shire Council therefore decided to investigate methods of coastal protection to ensure the safety of the caravan park, due to the imminent king tides and summer storms.

ELCOMAX® and ELCOROCK® was seriously considered as the Council had undertaken embankment stabilisation using sand filled geotextile tubes on the Maroochy River in 1994 that had performed very well. The structure was intended as a stop-gap measure whilst beach nourishment and coastal process solutions were considered.

The toe of the wall was located 0.5m below the low tide mark and incorporated a flexible toe protection system. Although a double layer of bags was recommended to ensure stability and durability of the structure, a single layer of 2t bags was constructed, placed on an ELCOMAX® 600R geotextile with a "stepped back overtopping" layer.

The option was chosen to prevent further beach erosion for the following reasons:

- Aesthetics (low visual impact)
- Flexibility
- Constructability
- Cost.



During construction

To date (July 2001) to ensure stability and durability of the structure 3000 2t containers have been installed which has withstood a number of severe storms.

The structure is popular with both fishermen and children alike.



Project complete



Beachgoers enjoying the embankment structure

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