



# SOUTHEND FORESHORE

**Key focus of investigation: reducing the rate of shoreline recession, increasing beach widths along the foreshore east of Lake Frome Outlet and maintaining the western beach**

Building on previous work, Council engaged coastal consultants, Baird, to collect local metocean data that could be used to investigate the coastal processes causing erosion in Southend and assess potential management options.

These options were identified from concepts raised in community discussion, previous studies, and the assessment of key coastal processes in the technical study. A scientific base model built with local coastal data was used to forecast the success of viable management options and identify preferred options. This project was co-funded by the Coast Protection Board.



**A full description** of the analysis can be found in the technical report, *Rivoli Bay Data Collection and Modelling*

**A summary** of the technical report has been prepared and can be found in *Rivoli Bay Summary Report*

## WHAT WE LEARNT?

Multiple options, implemented simultaneously were found to stabilise the shoreline east of the Lake Frome outlet groynes and increase beach widths. The recommended option (shown below) involves:

Retention of the western Lake Frome outlet groyne

Removal of the eastern Lake Frome outlet groyne to boost sand supply to the east

Extension of the three eastern groynes to increase sand trapping efficiency and widen the beach

Lowering the crest height of the three eastern groynes to allow sand to bypass sections

Sand nourishment during construction to widen the beach and reduce downdrift erosion





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## WHAT NEXT?

Further investigation of the full costs of this pathway including construction, ongoing maintenance costs, and initial sand nourishment costs is needed, along with consideration of the social and environmental benefits and constraints. This whole of life cost benefit analysis would be presented to Council and the community for consideration against alternative adaptation pathways such as retreat.

This fact sheet is part of a series summarising the investigations into:

- Coastal Processes across Rivoli Bay
- Beachport Foreshore
- Beachport Boat Ramp, and;
- Southend Foreshore

