

East Bank Levee



northern
beaches
council

Option FM18

Capital Costs (excl. GST): **\$56,642,000**
Draft Structural MCA Rank: **17**

Options Layout
1 in 100 Year Event



Description

The entire eastern bank of Narrabeen Lagoon, from Mactier Street in the south to Malcolm Street in the north, is low lying and flood affected in events as frequent as the 1 in 5 year event. It includes a 2.4 km long stretch of residential / commercial and industrial properties in the suburb of Narrabeen. Construction of a levee along the lagoon bank would protect these properties. To achieve protection up to the 1 in 100 year design event, the levee would need to be raised up to 1.0 - 2.0 m over a length of 2400 m.

Modelling Results

The results of the simulations show that Option FM18 provides effective protection up to the 1 in 100 year design event for properties landward of the levee. However for the 1 in 1000 year event the flood waters begin to overtop the levee and trap some water in behind. More regionally, the addition of the levee would reduce the overall amount of flood storage for the lagoon, and therefore may increase flood levels elsewhere.