

# Pittwater Road & Wakehurst Parkway Raising / Levee



northern  
beaches  
council

## Option FM13

Capital Costs (excl. GST): **\$11,281,000**  
Draft Structural MCA Rank: **18**



Options Layout  
1 in 100 Year Event



## Description

Flooding of low-lying residential and commercial areas of North Narrabeen west of Pittwater Road in events greater than the 1 in 5 year event are predominantly caused by lagoon backwater flooding, but there is also a secondary form of flooding from Nareen Creek upstream. Raising the already elevated regional roads could protect North Narrabeen from lagoon flooding in the 1 in 100 year event with the majority of the existing Pittwater Road above the 1 in 20 year. For the 1 in 100 year event Wakehurst Parkway would need to be raised up to 1 metre for a distance of 150 m, and Pittwater Road would need to be raised up to 0.6 m for a distance of 300 m. A flood gate would be required at the Nareen Creek outlet to limit backwaters through the outlet.

## Modelling Results

The results show that Option FM13 provides effective protection up to the 1 in 100 year design event for properties landward of the levee. For the 1 in 100 year event, however, the flood waters begin to overtop the levee and trap some water 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. Increases of 0.02 m are estimated across the lagoon by introducing this levee.