

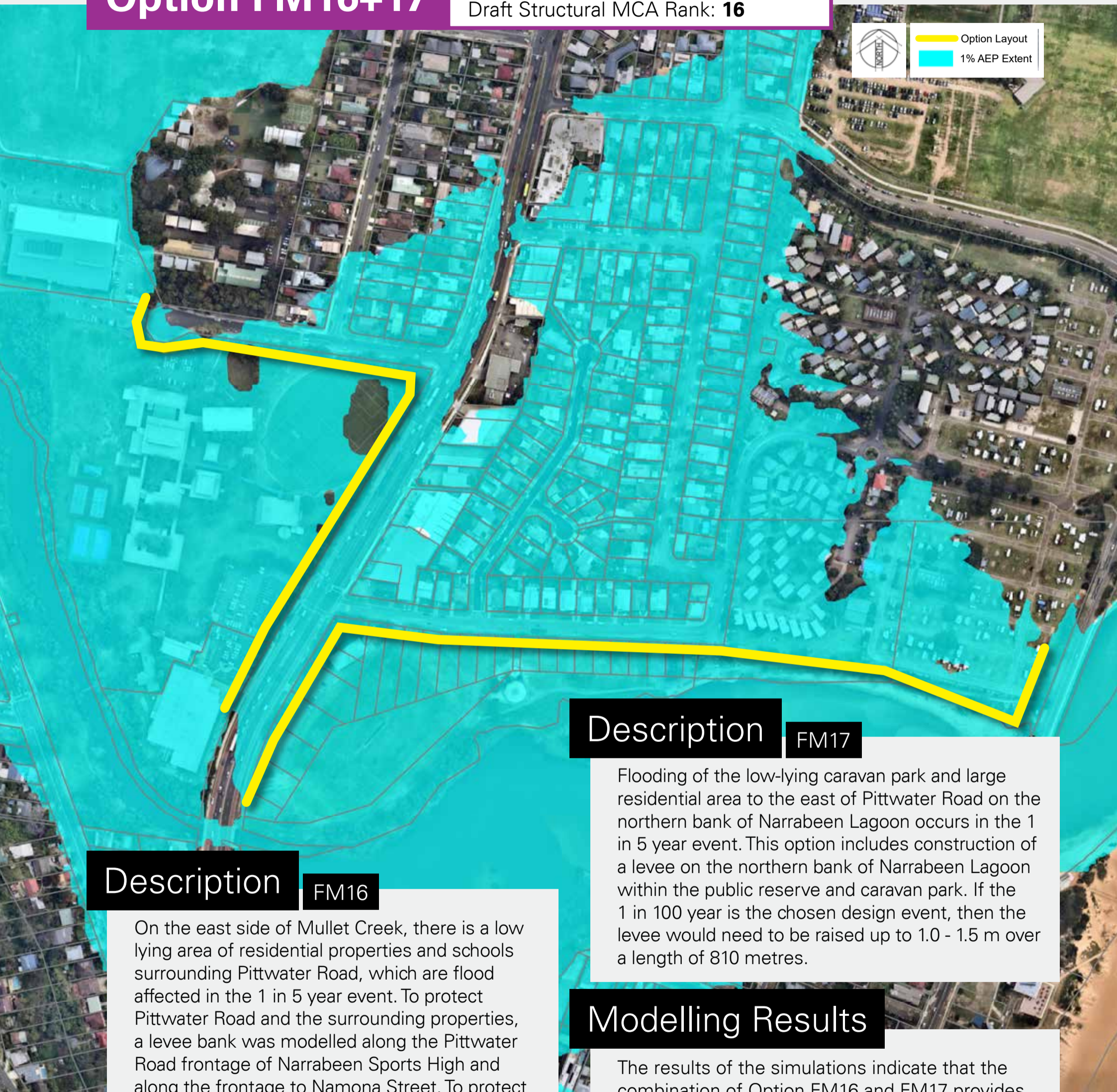
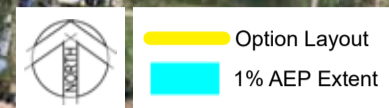
Pittwater Road Levee Bank and Lakeside Levee



northern
beaches
council

Option FM16+17

Capital Costs (excl. GST): **\$18,665,000**
Draft Structural MCA Rank: **16**



Description

FM16

On the east side of Mullet Creek, there is a low lying area of residential properties and schools surrounding Pittwater Road, which are flood affected in the 1 in 5 year event. To protect Pittwater Road and the surrounding properties, a levee bank was modelled along the Pittwater Road frontage of Narrabeen Sports High and along the frontage to Namona Street. To protect up to the 1 in 100 year event the levee would need to be raised up to 0.5 - 0.8 m over a distance of 590 m. Note that while this protects the area from Mullet Creek flooding, for this option to be effective the Lakeside Levee (Option FM17) also needs to be constructed to protect from Narrabeen Lagoon flooding to the south.

Description

FM17

Flooding of the low-lying caravan park and large residential area to the east of Pittwater Road on the northern bank of Narrabeen Lagoon occurs in the 1 in 5 year event. This option includes construction of a levee on the northern bank of Narrabeen Lagoon within the public reserve and caravan park. If the 1 in 100 year is the chosen design event, then the levee would need to be raised up to 1.0 - 1.5 m over a length of 810 metres.

Modelling Results

The results of the simulations indicate that the combination of Option FM16 and FM17 provides effective protection up to the 1 in 100 year design event for Pittwater Road and the surrounding residential properties. The results also indicate that the addition of the levee may have some minor impact on the overall flood storage of the lagoon, with flood levels elsewhere in the lagoon increasing by 0.01 m to 0.03 m.