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08/10/2021

MR Robert Tebble
- 39 Grandview Parade ST
Mona Vale NSW 2103


RE: DA2021/1612 - 1 Clarke Street NARRABEEN NSW 2101

I would like to register my objection to the construction of a vertical concrete seawall at Collaroy/ Narrabeen (DA2021/1612 - 1 Clarke St Narrabeen NSW 2101) and similar proposals along the same strip of beach

A vertical concrete seawall would do little ease the erosion of the beach during large swell events. I understand that the council is concerned about the potential loss of private property and further concerned about the loss of parts of Pittwater road.

Backwash, the retreat of a broken wave up a berm, is the the main problem as backwash mobilises sediment that is then transported to longshore currents and rips that take the sediment away. A vertical concrete seawall allows the maximum energy to be maintained in backwash . Wave comes in, smacks the wall and often a retreating wave is formed taking sand with it.

A sloping rock wall dissipates some of the incoming wave and further dissipates the energy of the backwash. It basically "strains" the water coming in and retreating. A combination of a wall and rocks is not optimal as a greater amount rebound/ backwash would occur.

The sloping rockwall, alone, would be a more appropriate option, however, for it to be optimal it would have to be maintained regularly and be enhanced by a beach nourishment program. Narrabeen Lagoon could provide a source of sand.

I have read in the research that the wall is hoped to have a life of 60 years. Surely, a sloping rockwall would be easier to maintain, be less expensive (over 60 years) and would be far more effective.