

Projects

Wyndham Cove Marina



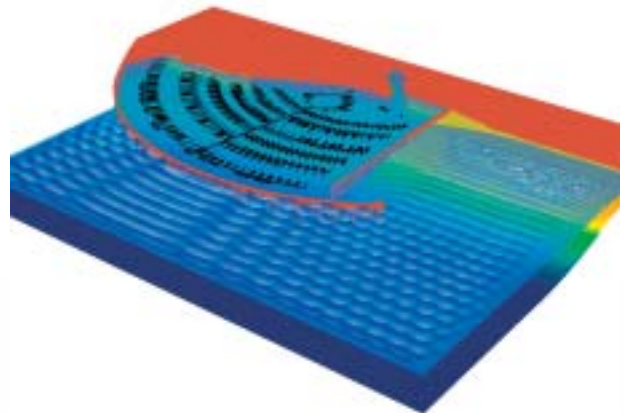
Client: Watsons Pty Ltd

The Victorian Coastal Strategy and the Central Coastal Board's Boating Coastal Action Plan recognise the lack of appropriate boating facilities and destinations along the western foreshore of Port Phillip. A special use zone was established located at the southern end of Duncan's Road, Werribee South, to facilitate the creation of an appropriate development to meet the needs of the boating public in the region.



Wyndham Cove is a proposed development designed to meet these needs. The development includes a marina with up to 1000 berths and associated club house facilities, an access canal connecting the marina basin with the maritime services area, and low rise residential development. The marina is protected by a rubble mound breakwater to the southwest and a combination of breakwater and wave screen to the north. Wetlands in the northern part of the development have been designed as part of the stormwater treatment system to treat on-site stormwater and catchment flows.

Water Technology provided specialist coastal engineering advice regarding the impact of a proposed marina and harbour complex on tides and circulation, water quality, waves and longshore sediment transport processes.



This included the development of detailed numerical models to assess these impacts and provide guidance on modifications to the proposed design to minimise the environmental impact. Outcomes from the investigations included recommendations on marina configuration and sand bypassing requirements needed to preserve existing longshore transport regime.

For more information contact Allan Charteris (allan.charteris@watech.com.au).

Services Provided

- Hydrodynamic modelling
- Water quality modelling and flushing assessments
- Wave modelling
- Assessment of coastal processes
- Determination of sand bypassing requirements
- Community Consultation