

# Wollongong Coastal Zone Management Study & Plan

In accordance with new guidelines issued by the NSW Government, Wollongong City Council has set about preparing a Coastal Zone Management Plan (CZMP) using a risk-based approach for management of coastal hazards and risks. BMT WBM has assisted Council in preparing this risk-based CZMP, the first of its kind for NSW.

BMT WBM's extensive experience in ISO 31000:2009 Risk Management was applied to the preparation of the CZMP. The risk assessment and management process involved:

- Extensive GIS spatial processing combined with local knowledge from community consultation to spatially define risk 'consequence';
- Transferring findings from an existing coastal hazards study for Wollongong into a risk 'likelihood' format;
- GIS processing of 'likelihood' and 'consequence' to produce mapping of risk across Wollongong's coastal zone, for erosion and recession, coastal inundation and coastal influenced geotechnical hazards;
- Preparation of management options to treat high and extreme risks for the current to 2100 timeframe, which were deemed intolerable by Council;
- Definition of triggers for implementing the options, or to delay significant or difficult actions until impacts become imminent;
- Cost benefit analysis and economic analysis of options;
- Recommended actions for implementation, within an implementation schedule.

**Client**  
Wollongong City Council

**Date**  
2010-2011

## Services & Expertise Provided

- Application of a risk assessment to coastal zone planning, using ISO 31000:2009 Risk Management Principles and Guidelines
- Risk mapping (likelihood x consequence) of the entire Wollongong coastal zone
- Extensive consultation with community, stakeholders and Council
- Defining 'triggers' for management action reflective of the timeframes for coastal hazard impacts

