



Coasts & Port Studies



Our Services

The management of port and coastal infrastructure based on environmentally sustainable practices relies on a sound understanding of a range of complex physical, biological and chemical marine and freshwater processes. Hydrobiology provides a range of technical services that support baseline and impact assessments and environmental risk assessments to assist National and State Port Authorities, coastal industries and local Councils. Our team offers skills and experience in marine ecology, water and sediment chemistry, ecotoxicology and coastal geomorphology.

Skills and Techniques

Hydrobiology has gained extensive experience in monitoring macrobenthos, fish, seagrass and coral communities by undertaking impact assessment, ecosystem health and habitat association studies.

We offer sector-specific technical skills in estuarine and marine flora and fauna ecology, hydroacoustics, water and sediment quality monitoring, biomonitoring, ecotoxicology and developing and implementing risk assessment frameworks.

Our staff are highly proficient in the use of environmental guidelines such as ANZECC / ARMCANZ (2000) and the National Assessment Guidelines for Dredging (2009) and have experience in applying a range of risk assessment frameworks (including the Australian Standards and USEPA).

Our key skills include:

- Conducting surveys and undertaking studies of flora and fauna to measure diversity, appropriate bioindicators of environmental state and assess environmental quality in endangered habitats
- Designing and analysing efficient monitoring programmes to evaluate ecological recovery
- Assessing the suitability of dredge material for sea disposal
- High-definition video assessment of coral reef assessments
- Hydroacoustic assessment of fish distribution and biomass
- Doppler (ADCP) based assessment of suspended sediments
- Risk assessment of deep-sea sediment load discharge
- Environmental bathymetric mapping for port infrastructure planning
- Assessment of submerged aquatic vegetation coverage

Applications

- Habitat Mapping
- Fish Stock Assessment
- Understanding Coastal and Estuarine Processes
- Coastal Development Projects
- Marine Park Management



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