



Australasian Marine Associates  
Marine Environmental Engineering Consultants

# Capability Statement





**Our Expertise** Australasian Marine Associates provides specialist marine environmental engineering consulting services for marine infrastructure projects, including addressing the permitting and licence conditions at both a State and Federal level. Coupled with advanced expertise in dredging and maritime infrastructure development as well as coastal processes and bathymetric mapping capabilities, AMA supplies a fully integrating service for projects that interface with marine and coastal environments.

Images Courtesy of:



Mulpha, Sanctuary Cove Marina



Council of the City of Gold Coast, Wonder Reef



Martha Cove Body Corporate

### Australasian Marine Associates offers expertise to support:

- ▶ Dredging and dredge material disposal monitoring and impact assessments
- ▶ Dredge ability assessments and dredge material management
- ▶ Marine infrastructure maintenance and restoration
- ▶ Level 1, 2 and 3 Commercial Diving
- ▶ Water column profiling and metocean data collection
- ▶ Water chemistry and sediment quality analyses
- ▶ Geochemical, geological, geotechnical and geophysical characterisation
- ▶ Bathymetric and seabed mapping surveys
- ▶ Ecotoxicology studies and ecological risk assessment
- ▶ Environmental management and due diligence assessments for coastal development and dredging
- ▶ Hydrodynamic modelling/ coastal processes
- ▶ Ocean Outfall and plume dispersion investigations
- ▶ Design and implementation of remediation strategies for nearshore and offshore environments

Our specialists participate within multi-disciplinary teams, to help guide engineering project design and environmental outcomes. We have specialist knowledge of ecosystem and coastal processes functioning, coastal engineering, physical–chemical characteristics, impact assessment, risk mitigation and marine environmental approvals, which provide our clients with opportunities to improve their environmental and engineering practices in all phases of a project’s life cycle.

## Fields of Expertise



Australasian Marine Associates has the experience and expertise in marine ecological monitoring, to offer a variety of services in a range of different environments including:

- Tropical, sub-tropical and temperate reef ecology
- Estuarine gill netting, bat trapping and seine netting
- Investigations of incident light levels and sedimentation
- Soft sediment community studies including infauna and epifauna investigations, surveys of seagrass meadows and low profile reefs
- Intertidal surveys, including mangrove and saltmarsh studies
- Fish surveys, including baited remote underwater video
- Marine mammal observations and other charismatic megafauna studies
- Bathymetry surveys and habitat mapping, including drop camera and towed video



Our team has developed survey and monitoring techniques for both mobile water quality monitoring, as well as fixed site instrumentation, including:

- Mobile water column profiling and water quality sampling
- Fixed site water quality monitoring, using buoy and mooring systems and where, applicable telemetry for gathering data in real time
- Multiparameter systems including CTD, AWAC, ADCP, Wave rider and tide gauge systems
- Sediment sampling using sediment traps, diver coring, piston samplers, grab samplers and drop corers



Our specialists have been involved in the monitoring and management of both small and large-scale projects, requiring dredging, near shore excavation and coastal infrastructure design, including:

- Design and execution of small and large scale dredging programs
- Design and construct of maritime infrastructure including barge ramps, wharfs and jetty infrastructure
- Underwater and overwater marine infrastructure maintenance, including debris clearance and pile and wharf restoration
- Underwater works including level 1, 2 and 3 Commercial Diving, underwater welding and broke and diver assisted dredging

## Project Experience

Our specialists have experience working in South America, West Africa, Singapore, the Torres Strait Islands, Papua New Guinea and the Solomon Islands, as well as throughout Australia. Our team consists of expertise in marine science, water quality and sediment chemistry, coastal engineering, dredging, maritime infrastructure development and maintenance, oceanography and ecotoxicology.

Our depth of experience is vast and our team consists of personnel who have previously sat on the DoE Commonwealth Sea Dumping Independent Review Panel and our principals are routinely asked to lecture and present on the application of NADG guidelines and dredge plume dispersion modelling. In addition to our technical expertise, Australasian Marine Associates also offers Commercial Divers, who are certified to AS2299.

## Projects recently undertaken by Australasian Marine Associates include:

Sediment Sampling and Analysis Plan Implementation Report, North Kimberley Airbase Barge Landing, North Kimberley Airbase, 2024;  
Environmental Approvals Review and Advice, Mandorah Marine Project, SMC, 2024;  
In Situ Water Quality and PAR Light Monitoring, HMAS Coonawarra, KBR, 2023/2024;  
Bullock Island Boat Yard Sediment Sampling and Analysis, Gippsland Ports 2023/2024;  
Evandale Lake Baited Remote Underwater Video and Targeted Fish Surveys, City of Gold Coast, 2023/ 2024;  
Quarterly Marine Ecology (Reef, Fish and Shark) Investigations, Wonder Reef, City of Gold Coast, 2023/2024;  
Yarra River Maintenance Dredging Hydrographic Surveys, Parks Victoria, 2024;  
EIA GAP Analysis, Environmental Planning Advice, Dredge Technical Review, Belmont Desalination Plant, John Holland Group, 2023;  
Wesley College Landing Maintenance Dredging, Wesley College, 2023;  
Martha Cove Marina Western Harbour and Entrance Channel Maintenance Dredging, Cambridge Management Services, 2023;  
Port Fairy Sediment Sampling and Analysis Plan Implementation Report, Moyne Shire Council, 2023;  
Mordialloc Creek Maintenance Dredging Preworks, Bathymetry Survey, Sediment Sampling, Boat Draft Requirements, Risk Assessment, Dredge and Disposal Options Assessment, Dredge Management Plan and Specification for Tendering, Stakeholder Consultation, DEECA, 2023;  
Patterson River Maintenance Dredging Preworks, Bathymetry Survey, Sediment Sampling and Analysis, Boat Draft Requirements, Risk Assessment, Dredge and Disposal Options Assessment, Dredge Management Plan and Specification for Tendering, DEECA, 2023;  
Sediment Sampling and Analysis SWSC Rowing Course, Patterson River, DELWP, 2023;  
Sediment Sampling and Analysis Lower Patterson River, DEECA, 2023;  
Sediment Sampling and Analysis Plan Implementation Report, Apollo Bay Harbour Maintenance Dredging, Colac Otway Shire Council, 2023;  
Williamstown & Newport Anglers Club - Maintenance Dredging and Boat Ramp and Jetty Refurbishment Works, WNAC, 2023;  
Sanctuary Cove Maintenance Dredging, Horizon Berth and F Finger, Sediment Sampling and Analysis Plan, Mulpha, 2023;  
Bullock Island Seawall SAP Implementation Report, Gippsland, DEECA, 2023;  
Sediment Sampling and Analysis, North Queensland Bulk Ports, Weipa, 2022/ 2023;  
Yarra River Maintenance Dredging, including Hydrographic Surveys and Diver Debris Clearance, Campaign A and Campaign B, dredging of 23,000 m<sup>3</sup>, Parks Victoria, 2022/ 2023.

---

**Dr Adam Cohen PhD**

Director and Principal Marine Specialist

P: 0413 033 500

E: adam@marineassociates.com.au

**Dr Daniel Spooner PhD**

Director and Principal Marine Specialist

P: 0404 834 164

E: daniel@marineassociates.com.au