



**Location**  
Garden Island, WA

**Client**  
Department of Defence

**Duration**  
2005 - 2011

**Contract Type**  
ASDEFCON Construct Only

# HMAS STIRLING - TREATMENT FACILITY UPGRADE

**Working with Defence to maintain and upgrade vital marine infrastructure**

The Royal Australian Navy maintains a Magnetic Treatment Facility at Fleet Base West to allow its warships to be “degaussed” or camouflaged from the threat of magnetic sea mines. Since 2005, Marine & Civil have worked with the Department of Defence to complete 6 separate contracts associated with upgrades and studies linked with the facility.

Works carried out by Marine & Civil have included:

- Installation of additional piles to increase vessel mooring capacity at the facility
- Fabrication and installation of catwalks to aid vessel manoeuvring into the pen
- Installation of new sensor housings below seabed
- Construction of a new measuring range including seabed sensor mounts and heading lead markers



- Preliminary concept design and cost estimate associated with a new facility capable of handling future generations of Australian warships

Works at the Magnetic Treatment Facility are convoluted in that no ferrous material can be used in the construction or for that matter be accidentally left in the vicinity of the

site. This results in the need to use timber, plastics and stainless steel to complete the works and a stringent monitoring of tools on barges to make sure all are accounted for at the end of the day's work. Furthermore, certain types of concrete aggregates can contain magnetic signatures resulting in the need to test materials prior to incorporation into the works. Marine & Civil have arranged for aggregate sourced from around Western Australia to be tested by Defence to nominate the source of aggregates for any future works.





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