

CONSTRUCTION

Construction will be undertaken in five stages to ensure the risk to the environment is managed according to best practice under the objectives and guidelines outlined in the National Strategy for Ecologically Sustainable Development (NESD).

The following strategies are proposed as part of the construction phase.

- staging construction to prevent the release of potentially contaminated water to the Great Barrier Reef World Heritage Area
- developing and implementing a Construction Environmental Management Plan
- conducting regular monitoring and auditing of the site and the activities to ensure best practice environmental management standards are consistently achieved



Stage 1 (months 1, 2) involves:

- building a temporary construction access to the site from Shute Harbour Road
- installing safety fencing around the construction site
- establishment of a construction compound using in-situ fill
- constructing storm water control channels
- installing silt curtains to minimise siltation and sedimentation in the Bay

Stages 2 and 3 (months 3 – 23) involve:

- constructing the solid breakwater and revetment wall
- transporting sheet piling and imported material to site by truck
- excavating to remove approximately 457,000m³ from the marina basin and stockpiling all soft material for land reclamation
- installing geotech liners for containment of future maintenance dredging material

Stage 4 (months 24 – 30) involves:

- installing silt curtains across the two openings at the eastern end of the site prior to dredging the marina basin
- dredging to remove approximately 275,000m³ from the marina basin and the access channel to achieve an available marina depth of approximately -3.3 metres at LAT (Low Astronomical Tide)
- creating the reclaimed area using dredging material mixed with excavated and dry clay materials

Stage 5 involves the following internal and external works:

- constructing marina berths including floating pontoons and catwalks
- installing infrastructure such as roads, power, water and sewer
- constructing the built form, landscaping and public amenities

