

# CONSTRUCTION and ENVIRONMENTAL MANAGEMENT PLAN

## *16 Addison Road Manly*

### DEMOLITION and CONSTRUCTION of a HARBOUR SWIMMING POOL and SPIRAL STAIRS

#### **1. Site Ecologist confirmation**

No works will commence until receipt of written confirmation is received a nominated site ecologist to verify that there are no nesting or moulting penguins in the vicinity of the work site. If evidence of penguins or recent use is found, works cannot start.

#### **2. Water mark out**

The CEMP prepared by marine biologist indicates the presence of seagrass well away from the work site. It also recommends areas for material delivery via barge, and 'no-go' areas in the waterway.

#### **3. Timing & Duration of Construction**

Works are confined to the months of March – June being outside the fairy penguin breeding season.

#### **4. Operating Hours, Noise and Vibration Controls**

Normal construction hours are to be adhered to, with no machinery to be used outside the hours 7.30am – 4.30pm. No work on weekends or Public Holidays.

#### **5. Staging of Construction**

- a. Demolition will be carried out over one week
- b. Surround fencing and containment booms to be installed once excavator is landed on site from a barge
- c. Concrete will be sawcut and broken with a hydraulic hammer and loaded into bulker bags
- d. The concrete waste will be loaded onto a barge and disposed of at a licensed waste facility
- e. Excavator removed from site by barge
- f. Pool surround form-work will be installed, supported by posts bolted into the rock
- g. Steel re-enforcement will be installed and tied, and inspected before concrete is poured to pool and deck
- h. Form-work will be removed from surround and new form provided to create spiral stairs.
- i. Steel re-enforcement to stairs installed and inspected prior to pouring
- j. Second concrete pour for stairs
- k. Tiling of pool and surround
- l. Installation of pool pump and daybed
- m. Demobilize and remove fencing and containment booms

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### **6. Site Induction**

All workers and visitors are to be given a site induction as outlined below in Terrestrial Mitigation Measures.

### **7. Worksite Access, Routes & Waterway clearances**

Access to the worksite will be from both land and water. A barge will remove the waste and deliver some materials. It will not be anchored so as to minimise impact on the seabed and will not remain at the site overnight to avoid hindering access to the neighbouring facilities.

### **8. Mitigation Measures**

#### Terrestrial

- Signs will be permanently present to alert workers to the potential presence of threatened species i.e. little fairy penguins and bandicoots
- A self-closing gate (with 100mm gap) will be installed midway down the rear yard to prevent dogs and foxes from entering the cliff face and critical habitat areas
- no dogs will be allowed at the site during construction
- Signs will indicate that fines and penalties apply
- No bright lighting or motion detectors are to be installed
- Site inductions will be provided to all workers and those who deliver materials to ensure that the following factors are met:
  - ✓ workers are provided with a visual of the fairy penguin and long nosed bandicoot so that they can be confident in identifying them
  - ✓ workers understand the sensitive nature of the work site by being provided with verbal information about the significance of the penguins and bandicoots
  - ✓ workers are made aware to maintain distance from penguins and their burrows
  - ✓ workers are provided with a plan of what to do in the event that a penguin or bandicoot is found at the site
  - ✓ workers are provided with contacts for the relevant agencies should any dead or injured little penguins or bandicoots be found
  - ✓ dogs are not allowed access to the foreshore at any time during construction
  - ✓ all site works will be informed of the importance of restricting movements to avoid being in the vicinity of any penguin or long nosed bandicoot burrows
  - ✓ standard rubbish is to be removed offsite at the end of the day

#### Marine

- silt curtains will be used to prevent the spread of sedimentation during works
- a wet vac will be on hand to immediately remove any slurry, sand, grit, etc
- all sediment and pollutants are to be vacuumed up before high tide every day

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### **9. Storage of Equipment**

There will be no stockpiling of equipment, materials or debris on the intertidal zone.

All debris, materials and equipment will be stored above the high water mark or above the cliff.

### **10. Public Safety, Amenity and Site Security**

The site will be closed off and only workers are allowed on site.

Works will be carried out with a barge, an excavator and portable tools, all of which are noise attenuated and only used within operating hours.

### **11. Air and Dust Management**

Waste will be contained in bulker bags and removed by barges and will remain covered until disposed of at a suitable licenced waste facility.

Any run-off will be contained within the bunded area or the silt curtain surround.

### **12. Stormwater and Sediment Control**

Alteration of the natural flow of ground and surface water will not be affected. Any sedimentation or soil erosion that may occur during construction will be controlled by standard on-site construction methods, these being:

- Use of silt curtains and floating booms.
- Construction waste sediment will be contained within the bulker bags and the bunded areas.

### **13. Waste and Materials Re-use**

- Equipment, materials and waste would be transported from the site directly to the barge for storage or disposal.
- Waste will be disposed of at a licensed waste facility or recycled.

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#### **14. Complaints & Incidents Handling**

Any complaints from the public or authorities will be treated seriously and with discretion. Complaints will be directed to the Site Manager in the first instance and dependent upon the circumstances and the source of the complaint, a response to the complainant will be made either directly on the phone, or by email / letter within a reasonable timeframe.

Any incidents – accident and near miss accident– will be investigated by close of business on the day in which they occur and a full report will be recorded by the Site Manager. Serious incidents – such as trauma, serious injury or fatality, will be reported to WorkCover.

Any injuries will be reported to the Site Manager as listed above. Injuries will be recorded in the Site Injury Register. If the injury is likely to result in an absence from the workplace of 7 days or more, then the injury and its circumstances must be reported to WorkCover (within 48hrs verbally and in writing within 7 days) using the WorkCover Incident Report Form.