Environmental Management Plan Palm Beach Boat House Joint Plan by Blue Pacific Constructions Pty Ltd and Ecological Consultants Australia Pty Ltd

Draft March 2022

About this document



Statement of Authorship

This CEMP is by Blue Pacific Constructions and Ecological Consultants Australia at Studio 1/33 Avalon Parade, Avalon. The author of the report is Geraldene Dalby-Ball with qualifications BSc. majoring in Ecology and Botany with over 20 years' experience in this field, and Jack Hastings with qualifications BEnvSc. Majoring in Coastal Management.

Limitations Statement

Information presented in this report is based on an objective study undertaken in response to the brief provided by the client. Any opinions expressed in this report are the professional, objective opinions of the authors and are not intended to advocate any particular proposal or pre-determined position.

Document Co	Document Control Sheet		
Title:	Environmental Management Plan for Palm Beach Boat House		
Version:	Final		
Authors:	Peter Blue Pacific Constructions		
	Geraldene Dalby-Ball and Myrna Calumpong ECA		
Date:	March 2022		
File location:	Dropbox\ ECA 4 Projects\ 2 Projects\ 2021-2022\ CEMP\ PB Boathouse		
Distribution:	London Lakes Pty Ltd c/o: Peter bluepacificconst@bigpond.com		

Table of Contents

A	bout	t this document	2
1	Pu	urpose and layout	3
2	Th	ne Businesses Responsibilities and Contacts	5
3	Ac	ctions Required	6
	3.1	Environment and Heritage Risk Management	6
	3.2	Training, Awareness and Competency	6
	3.3	Audits, Monitoring and Corrective Actions	7
	3.4	Community Safety	7
	3.5	Council assets protected.	7
	3.6	Environmental Protection Marine and Terrestrial Vegetation	7
	3.7	Fauna (terrestrial and aquatic)	11
	3.7	7.1 Sediment and Erosion Control (NB silt in the marine environment is in a separate table)	13
	Sec	diment and silt in the marine environment	15
	3.7	7.1 Noise and Vibration	16
	3.7	7.2 Noise	17
	3.8	Oil and Other Noxious Substances – Refueling and Spill Management	19
	3.8	8.1 See separate Dangerous Goods Plan	19
	3.9	Resource Recovery and Waste Management	22
	3.9	9.1 Sustainability reuse, reduce, recycle – add section for each business	22
	3.9	9.2 Clean up and Resource recovery and disposal	22
	3.1	Traffic management plan (TMP)	24
	3.2	Dangerous Goods Management - Cafe	26
	3.3	Dangerous Goods Management – Boat Hire	28
	3.4	Dangerous Goods Management – Sea Plane office	29
4	Re	elevant conditions relating to long-term management	31
	4.1	Long-term Management	31
5	Inc	duction Plan for Site Personnel – checklist	33

1 Purpose and layout

The purpose of this document is to provide an Environmental Management Plan for the long-term running of all business operating from Station Beach Boat House Wharf, 1191 Barrenjoey Rd Palm Beach. The EMP summarises actions needed, who is responsible and when an action must be done also actions that are not permitted. NB: professional advice at the time of any works is required and this EMP does not over-rule any legal requirements.

NB: Copy to of this EMP to be kept in on-site and provided to, and updated for, any business being run from this location. EMP to be reviewed annually and updated a minimum of every 5 years.

A Construction Environmental Management Plan (CEMP) was written to guide the environmental management through the construction phase and this EMP commences at the completion of construction and when a new business operates form this location. The current EMP has been written for the 3 current uses:

1) Café/Restaurant (the Boat House), 2) Boat Hire and 3) Sea Plane office (&loading and unloading).

It is recommended that the EMP be read in conjunction with the relevant Development approval. Reports from the following sources have been used in this EMP and requirements that for post construction and for the life of the development (or anywhere in between) have been included in this EMP. In addition to this the EMP includes specific management actions to ensure the care and long-term sustainability of the locations environment and environmental safety. As safety is a key consideration the Dangerous Goods Plan is included in this EMP and is tailored for each of the businesses operating form this location.

Following are sources of information from which 'long-term management actions' have been extracted.

- Arborist Report (Urban Forestry Australia Pty Ltd). In particular the recommendations to ensure `` protection of the roots of the Norfolk Pines.
- Bushfire (Report First Field Environmental). NB: no requirements for this CEMP
- Coastal Engineering (Cardno). This review includes the proposed retaining wall under the building and to each side and the integration of this with proposed soft-engineering proposed in this plan.
- Hydraulic Services and Stormwater Report (ADCAR Consulting Pty Ltd)
- Landscape Plan by Selena Hannan Design updated to LP-01D, 22/2/21
- Ecological Report by Geraldene Dalby-Ball of ECA (2020)
- Aquatic Ecology Report (Cardno) Aquatic Ecology Report Boat House, Palm Beach 59916081 (August 2021)
- Coastal Engineering Assessment and Estuarine Risk Management Report (August 2021)
- Construction Noise and Vibration Management Plan (Day Design Consulting Acoustical Engineers August 30th 2021) Rep 6953-3.1R
- Noise and Vibration Letter (Coastal Engineer Lucus Maloy August 2021)
- Erosion and Sediment Management Plan (Coastal Engineer Lucus Maloy August 2021)

Location

The Site the whole of the property at 1191 Barrenjoey Rd Palm Beach (i.e. "boathouse, associated structures and gardens").

The proposed study area is within Lot 298/ DP 721522, in the local government area of the Northern Beaches Council.

Figure 2.1. - Location of the Boathouse. Source: Google Maps



Figure 1.1.

2 The Businesses Responsibilities and Contacts

All businesses here have environmental responsibilities. These vary in relation to the activities of the operation, and everyone has a base level Duty of Care to prevent Environmental Harm as described in the Environmental Protection Act 1986.

The interdependencies of positions on the project are shown in Table **1**. Names and contact numbers are correct for this revision, but may change during the project.

POSITION	NAME	CONTACT
The Boat House		

Table1: Business Roles, Responsibilities and Contact Details

3 Actions Required

3.1 Environment and Heritage Risk Management

The purpose of this section in a EMP is to present a summary of the risks and activities that are to be managed over the life of the development. Summarised in bullet point below and in the tables that follow are risk management tables for the following environmental management areas:

- Noise Management
- Sediment, Silt, Erosion and Turbidity Management.
- Oil and Other Noxious Substances Spill Mgt Plan
- Potential Acid Sulphate Soils
- Housekeeping and Resource Recovery (Waste Mgt)
- Terrestrial and Aquatic Fauna
- Aquatic Vegetation, Trees and Weeds
- Dangerous Goods (separate section with specific requirements and responsibilities for each business)

3.2 Training, Awareness and Competency

Environmental training, awareness and competency will be delivered and assessed throughout the project, to ensure the relevant aspects of this EMP are communicated to all working on-site and responsible for management (including contractors and sub-contractors). The following are to be used by all:

- Site Environment Induction
- Daily Pre-Start Meetings
- Environmental Toolbox Talks including Marine ecology (Seagrass and Claurpa) and terrestrial (requirements from Arborist report.
- Near-miss and Incident bulletins
- Sub-contractor's kick-off meeting
- Incident Reporting
- Monitoring, Review and Corrective Actions
- Environmental Audits and corrective actions reports

• Dangerous Goods Management

3.3 Audits, Monitoring and Corrective Actions

XXXXXX

3.4 Community Safety

xxxxxxxx.

3.5 Council assets protected.

This includes the road, trees and park.

XXXXXXXXX.

3.6 Environmental Protection Marine and Terrestrial Vegetation

Native vegetation terrestrial is not present in the proposed direct works area with the exception of boat hire and possibly sea plane – see specific controls below xxxx



1 Aerial figure of the Property with the indicative location of seagrasses present within the Study Area at the time of the survey. Wave creen impact 8/8 and 8/7 zones highlighted in yellow. The red arrows indicate the recommended path for the barge movements to avoid areas f Posidonia.

MARINE, T	MARINE, TERRESTRIAL VEGETATION AND WEEDS		
Objective(s)	1. 2. 3.	To ensure protection of vegetation to be retained (particularly Norfolk Pines) To protect Marine Vegetation – seagrasses and minimize the disturbance/damage to their habitat. To minimize the introduction and/or spread of weed species	

Management Strategy	 Marine ecology – xxx specific long-term to be added Tree Management – xxx specific long-term to be added Foreshore Management – xxx specific long-term to be added Native plants and 'public space' garden eating area – xxx specific long-term to be added Constant review and where appropriate improvement of the plan – xxx specific long-term to be added Works near Marine Vegetation will be supervised by people trained in sea-grass protection. Silt managen silt/sediment movement onto seagrasses. Any barge movements at high tide where close to seagrass to ensure no impact 	nent will be in place resul	ting in no
		Responsibility (Role)	Timing
Control(s)	 Provide site specific information on trees and marine vegetation within the Environmental Induction. Ensure all Arborist requirements are fully complied with and any doubt consult with project Arborist. Ensure relevant staff know what <i>Caulerpa taxifolia</i> looks like and how not to spread it. 		All work times
Performance Indicator(s)	Healthy Trees and seagrass with no disturbance of vegetation outside the approved disturbance zone No introduction or spread of weed species		All work times
Monitoring	Monitoring of intertidal area before/during/after any marine works. NB any marine works need approval Monitoring of tree works as per arborist report.		All work times
Reporting	Any accidental clearing of native vegetation to be reported to the PPA project representative and followed through with an incident report.		All work times
Corrective Action(s)	Investigate cause of incident		All work times

Implement corrective measures prior to the recommencement of site works	
 Review opportunities/constraints for further minimisation of potential incidents given work procedure parameters. 	
parameters.	

Background information on Caulerpa

Caulerpa taxifolia - Assets & Environment - Maritime - Roads and Waterways - Transport for NSW and Caulerpa taxifolia (nsw.gov.au)



Flattened feather-like fronds, bright green colour

3.7 Fauna (terrestrial and aquatic)

Areas with visible fauna, such as crabs, will not be changed as these areas are already at the ideal level. Plant movement will be in the smallest area practical and impacts on the intertidal area will be short-term. Areas with crabs are generally outside the proposed works area.

TERRESTRIAL FAUNA				
Objective(s)	Objective(s) 1. To minimize the impact to terrestrial fauna 2. To prevent the spread of introduced species			
Management Strategy	Ensure impacts to fauna are minimized, and impacts outside the approved activity zone are avoided. Minimise disturbance along the intertidal and beach area			
		Responsibility (Role)	Timing	
Control(s)	Provide site specific information on fauna within the Environmental Induction (NB: marine fauna) Include toolbox talks for site specific fauna information during project to ensure currency of information Ensure no activities outside the approved operating areas and communication in site inductions. Contact wildlife carer groups/vet for injured fauna		All work times	
Performance Indicator(s)	No disturbance outside the approved activity areas No injury or death of any fauna caused by approved activities (e.g. boat hire) No injury or death of protected fauna.		All work times	
Monitoring	Daily inspection of business areas and surrounds		All work times	
Reporting	Sightings and incidents reported to xxxxx. Injured native fauna to be reported to an official wildlife care group.		All work times	

Corrective	Investigate cause of incident	All work
Action(s)	Review opportunities/constraints for further minimisation of potential incidents given work procedure parameters	times
	Implement corrective measures prior to the recommencement of site works	

3.7.1 Sediment and Erosion Control (NB silt in the marine environment is in a separate table)

See Also Environmental Protection - Marine

SEDIMENT AND	EROSION CONTROL			
Objective(s)	 To ensure that the effects of erosion and sedimentation on the environment and biological communitie Minimise soil disturbance, degradation and erosion. 	s are minimised.		
Management Strategy	Anagement Ensure that direct impacts (land disturbance) are limited to the works area, and that secondary impacts do not impact adjacent areas.			
		Responsibility (Role)	Timing	
Control(s)	Usagea areas will be minimised and clearly demarcated. Works will only be conducted within the works zone. Vehicle movements will be restricted to required tracks on hard surfaces See also Mgt Strategy section.		All work times	

Performance Indicator(s)	No evidence of significant sediment deposition outside the works area. No evidence of significant rilling, gullies or other instances of run-off erosion.	All work times
Monitoring	Daily inspection of work site to occur.	All work times
Reporting	Incident report for non-conformance of sediment control Logging of sediment control structures - location and condition during weekly site inspection	All work times
Corrective Action(s)	Investigate cause of sediment control failure	All work times

Sediment and silt in the marine environment

Objective(s)	 To minimise the volume of fine sediments / silts introduced into the marine environment through various construction activities. To minimise / manage the spread of sediments generated by construction activities 				
Management Strategy	• Undertake monitoring of turbidity through observations and in-situ measurements to proactively manage turbid plumes / sediment input.				
		Responsibility	Timing		
Control(s)	Sediment generation is not expected from any activities however it still needs to be monitored for incase of changes. Monitoring for turbid plumes generated by exposed soils (a) Plume extent (e.g. estimated distance in metres from works area (b) Plume direction (c) Prevailing conditions (e.g. wind and tide)				
Performance Indicator(s)	Turbidity measurements generated by sediment removal not to exceed background conditions.				
Monitoring	Daily (undocumented) and noted 1/4ly or if incident				
Reporting	Visual observations photos etc. of turbid plumes to eb taken where possible. Incidents (including breaches of this management plan) to be reported immediately to the PPA Project Manager and Environment and Heritage Manager.				

Corrective Action(s)	Should turbidity monitoring indicate a level of 5NTU above background @ 1000m has been exceeded, and this has been caused by activities at this location by the responsible business then the response will be to cease the work creating the plume, rectify cause, until monitoring levels fall within compliance.	
	Should the monitoring levels exceed the requirements on a continual basis, investigate and install and maintain additional measures to control turbidity	

3.7.1 Noise and Vibration

XXXXX

3.7.2 Noise

The noise management level for residences where the construction duration is greater than three weeks is the rating background noise plus 10dB(A) and the noise management level for the parkland would be 60dB(A). Based on the typical sound power levels in Table 5-2 and using the methodology in the Australian Standard AS2436-2010 Guide to Noise and Vibration Control on Construction, Demolition and Maintenance Sites and the Interim Construction Noise Guideline (DECCW, 2009), the maximum predicted noise levels at the parkland may exceed the recommended noise management levels during piling.

Mitigation measures required to minimise noise impacts during the construction phase are outlined below.

NOISE MANAGEMENT				
Objective(s)	 To minimise the impacts of noise on the amenity and native fauna of the surrounding areas. Construction activities undertaken in accordance with AS 2436-1981 Guide to Noise Control on Construction, Maintenance and Demolition Sites. Construction activities undertaken in accordance with Environmental Protection (Noise) Regulations 1997 			
Management Strategy	 During works, implement all reasonable and feasible control measures to minimise noise impacts. These measures would be specific to the site conditions and proposed work methods. xxxxx 			
		Responsibility	Timing	
Control(s)	All equipment used to be regularly maintained to ensure efficient operation; Pre-start checks and maintenance schedules to ensure equipment performance is as required; Noise-dampening equipment to be used on equipment with excessive noise generating characteristics; Construction activities in accordance with AS2436-1981 Guide to Noise Control on Construction, Maintenance and Demolition Sites.		Throughout Works	

Performance Indicator(s)	No complaints from adjacent commercial premises and/or community.	Throughout Works
Monitoring	Daily inspection of works sites to occur Service logs for equipment/machinery used on site	Throughout Works
Reporting	Any complaints or incidents to be reported responsible manager for rectification.	Throughout Works
Corrective Action(s)	Investigate cause of excessive noise Implement corrective measures prior to the recommencement of site works Reschedule of noise-generating activities to reduce noise annoyance	Throughout Works

3.8 **Oil and Other Noxious Substances – Refueling and Spill Management**

3.8.1 See separate Dangerous Goods Plan

Emergency response plan

Spill kits on site for small spills as no large storage of fuels on site

Site register of emergency services to be kept in site office

OIL AND OTHER NO	OIL AND OTHER NOXIOUS SUBSTANCES			
Objective(s)	 To minimise the potential for spills of oils and other noxious substances to as low as reasonably practicable. 	Site Supervisor		
Management Strategy	Reduce quantity of hydrocarbons stored to that required, implement appropriate controls and provide appropriate training and resources for a spill response. Neutralize PASS/ASS on-site and store appropriately to prevent leachate running off the stockpiles of removed sediment.	Peter (Construction Manager)		
		Responsibility (Role)	Timing	
Control(s)	All hydrocarbons to be stored in an appropriate bund that is capable of holding 110% of a spill from the largest container, or 10% of total volume of stored liquids, whichever is greater. Refuelling of vehicles/equipment will be undertaken on land (not over water), unless the task is not possible. Designated area for refueling where possible. Add details for each business xxxxxx	Peter (Construction Manager)	Anytime All times during works or when noxious substances on site	
	To reduce the impact of a spill, the lowest volume of hydrocarbons required will be stored in proximity to the marine environment and in the onshore lay down areas.			

Add details for each business xxxxx A copy of the current hydrocarbon MSDS will be kept at an appropriate location on site for each business. Add details for each business xxxxx for all the points below Drip trays shall be placed under mechanical stationary equipment such as gensets if such equipment is not internally bunded. Onsite spill response training will be carried out on a periodic basis. All deficiencies identified through training and testing of the procedures will be documented and rectified immediately. All equipment will be regularly serviced to reduce emissions and reduce the chance of oil leaks on site and in marine environments. Appropriate controls in place to contain hydrocarbon leaks should they occur whilst servicing. Controls may include use of drip trays when changing oil and transporting waste oils in bunded containers. Only qualified personnel are to carry out services on plant, equipment and vessels A prescribed Isolation procedure must be followed prior to work on any plant or equipment. Training / awareness to be included in site induction (including all staff, contractors, subbies etc.). Appropriate volume and type of spill response materials will be available at each work site Spill will be contained and cleaned-up immediately. Resultant wastes (soils, rags and absorbent material) appropriately stored and disposed of by an appropriately licensed waste contractor as controlled waste. All spills reported and investigated as required.

r		r	
	Emergency spill kits must be kept at the site.		
	Refueling of machinery must be undertaken in a dedicated area appropriately protected as outlined in the spill management plan and away from the lake.		
	Any chemicals and fuels must be stored in a bunded area at least 50m away from the waterway.		
	Workers are to be trained in the spill management plan and spill kits.		
	Store any hazardous materials within an impervious and bunded enclosure capable of storing 120% of the volume of material.		
	PASS/ASS sediments will need to be contained using impermeable material to prevent acid leachate running off the stockpiles eg. Sitting stockpiles on plastic sheeting that folded up around the base to contain run-off (like a bund) or placing excavated material in skip bins.		
Performance Indicator(s)	Minor spills (<10L) to land contained, controlled and all contamination removed / cleaned-up within 24 hours. No spills to marine waters. No contamination of soil or surface / ground waters. No spills that require an emergency response		
Monitoring	Incident report outlining corrective actions taken and preventative measures to be implemented sent to PPA with 48 hours Statistics reported to PPA in weekly meetings and monthly reports.		
Reporting	All spills (regardless of volume) to be reported A spill of oil or any other hazardous or noxious substance is to be reported immediately to the Site Supervisor The following incidents must be reported to PPA on a monthly basis (e.g. at KPI meetings) If there is less than 10L spilt, the spill is contained on site and it is able to be fully cleaned up. The following types of spill incidents must be reported to the PPA Environment and Heritage team immediately (including a follow-up incident investigation report within 48 hours):		

	 Any spill greater than 10L; Any spill which cannot be fully cleaned up / contained immediately; OR Any spill which leaves the lease area (e.g. as liquid discharge or dust emission). 	
Corrective Action(s)	Stop work immediately, contain spill (if safe). Investigate cause of spill and assess. Implement improvements as required.	
	Investigate and assess adequacy of response – implement improvements as required. Implement corrective measures prior to the recommencement of site works.	
	Use correct neutralising quantities for PASS/ASS (see separate section on PASS/ASS)	

3.9 Resource Recovery and Waste Management

3.9.1 Sustainability reuse, reduce, recycle – add section for each business

ххх

3.9.2 Clean up and Resource recovery and disposal

ххх

The management and clean-up of equipment and any spills.

Establish a wash up containment aera and disposal of waste into bins.

Before refueling of machinery appropriate clean up kit to be available onsite. Refueling to be monitored by representative of the builder and any spill to be cleaned immediately. The refueling is only to take place in a designated aera. No large quantities of fuel to be kept on site. Smaller quantities =< 50 litres to kept in bunded aera large enough to contain the fuel with appropriate signage.

Dewatering of the excavation for sewer and grease traps via sediment control containment zone. This aera is adjacent to MHWM so will be tidal. The establishment of a coffer dam will limit majority of water ingress from the side but water will still be able to rise from the base of the excavation. The aera has been tested for acid sulphate soils and has return a negative result. Contaminated land report has also return negative result for contaminates as it examined water at the water table. The excavation material has been also categorised as VENM and can be reused on site.

Objective(s)	Reduce waste volume, maximise recycling, reuse and recovery, prevent any construction waste/litter entering the e	environment.		
Management Strategy	Minimise environmental impacts through appropriate controls and site inductions of employees, contractors and sub-contractors. The proposal would result in waste in the form of:			
	Then write specifically for each business xxxxxxx			
	vegetation (garden)			
	organic and recyclable material such as drinks containers, food scraps, etc.			
	To ensure that environmental harm does not occur as a result of uncontrolled or inappropriate collection, tr relevant provisions of the following Acts would be implemented:	ansport and dis	posal the	
	Waste Avoidance and Resource Recovery Act 2001			
	Protection of the Environment Operations Act 1997			
	Protection of the Environment Operations (Waste) Regulation 2005			
	The waste management control procedures and/or measures listed below would be implemented for the proposed	works.		
		Responsibi lity (Role)	Timing	
Control(s)	Provide appropriate waste bins, type, volume and service frequency to accommodate anticipated waste streams.			
	All loads arriving or leaving the site will be appropriately secured.			
	Provide information regarding waste management in site specific inductions, including waste separation and			
	importance of securing vehicle loads.			
	Ensure licensed contractors are used to collect controlled wastes			
	Minimal waste will be generated as all is vegetation waste. If materials are found within the vegetation they will			
	be managed. Vegetation will be mulched and reused on-site.			

Performance Indicator(s)	Hazardous materials all appropriately disposed. Recycling of all recyclable construction metal waste Records kept of waste leaving site.	
Monitoring	Daily inspection of work site to occur. Review of waste bins (% full, time to next service). Waste volumes leaving site from waste contractors	
Reporting	Environmental incident reports.	
Corrective Action(s)	Investigate cause of inappropriate waste disposal Review cause of issue and develop response, such as variation to bin size, service schedule or waste separation awareness. Implement controls	

3.1 Traffic management plan (TMP)

Objective(s)	All vehicle movements to result in safety to public, infrastructure, environment and drivers, and will deliver and remove plant, equipment and materials in an efficient manner.		
Management Strategy	 Have an active relevant TMP governing the movement of vehicles to and from the site for deliveries and removals. xxxx 		
		Responsibility (Role)	Timing
Control(s)	Add specifics for each business xxxxxx	Peter (Construction Manager)	
	 Access and egress from site will be clearly marked and on the existing road and to the site (small site). 		
	 For larger vehicles appropriate guidance to protect both other road users and pedestrians shall be employed. 		

	 Temporary standing zones for the larger vehicles. At this stage similar to where film crews park 8 large trucks beside the golf course Deliveries of materials will all remain on clean hard surface. Machinery will be the only vehicles on the sand and these will be removed from site by low loaders. The speed limit in the park is 10k/h. this will enable safe movement thru the park. All vehicles to remain on road and designated parking and queuing zones. 	
Monitoring & Performance Indicator(s)	Monitoring will be at all times there are construction vehicle movements. Performance indicators is number of safe days that is with no near-miss or incidents and any hazards identified swiftly and managed.	
Reporting & Corrective Action(s)	Any near-miss, hazards or incidents will be reported, investigated and corrective actions implemented.	

3.2 Dangerous Goods Management - Cafe

Objective(s)			
Management Strategy	•		
		Responsibility (Role)	Timing
Control(s)	•		
	•		
	•		
	•		
	•		
	•		
	•		
Monitoring & Performance Indicator(s)			
Reporting & Corrective Action(s)			

3.3 Dangerous Goods Management – Boat Hire

Objective(s)			
Management Strategy	•		
		Responsibility (Role)	Timing
Control(s)	•		
	•		
	•		
	•		
	•		
	•		
Monitoring & Performance Indicator(s)			
Reporting & Corrective Action(s)			

3.4 **Dangerous Goods Management – Sea Plane office**

Objective(s)			
Management Strategy	•		
		Responsibility (Role)	Timing
Control(s)	•		
	•		
	•		
	•		
	•		
	•		
	•		
Monitoring & Performance Indicator(s)			

Reporting &
Corrective
Action(s)

4 Relevant conditions relating to long-term management

Add in specific relevant items for each Business - xxxxxx

4.1 Long-term Management

Condition	Action Required	Responsibility	Done (date & initial)
Condition 12	Compliance with Ecologist's Recommendations – Post-construction All biodiversity-related measures specified in the Ecological Assessment and Biodiversity Management Plan (Kingfisher 2021) are to be implemented at the appropriate stage of the development.		
See DA conditions re: Arboriculture	All post-construction Arborist-related measures specified in the Arborist report and these conditions of consent are to be implemented at the appropriate stage of the development. The Arborist plan is kept in the Site Office		
See DA conditions re: Landscape	All post-construction landscape-related measures specified in the Landscape plan and these DA conditions of consent are to be implemented at the appropriate stage of the development. The Landscape plan is kept in the Site Office		
Chemical Spills – at all times	A spill kit must be kept onsite. A spill prevention and clean up procedure in accordance with industry standards must be prepared and kept on site.		
Pontoons	As per plans and the Aquatic Ecology Report, pontoons north of the jetty can not be reinstated without approval of the relevant authority.		

Condition	Action Required	Responsibility	Done (date & initial)

5 Induction Plan for Site Personnel – checklist

Aim is to keep all people and environment safe and achieve great outcomes it is necessary that you clearly understand of the requirements in this EMP with a focus on your business and work area and the wider area as we are have a duty of care for people and environment and compliance.

This induction plan for site personnel has been included with the EMP and placed as the Appendix to ensure both documents are read together and the detail in the EMP is read and understood and signed as being so. This document is to be retained in the office of each business.

Update this Specifically for each business

Item	Comments	Signed and Understood (name to be clearly recorded and date added)
Have been shown and understand first aid, evacuation and other WHS matters and contacts.		
Know location of spill kits, when to use and who to contact in case on an incident.xxxxx		
Know how to report hazards, near-missed and incidents (people and environmental) xxxx		
Have been shown and understand areas for parking		
Have been shown and understand areas for xxxxx		
Know the Environmental no-go zones – Marine and where marine ecologist is to:		
xxxx		

Know who has to sign-off on stages of works completion in your area: eg:		
Vegetation Protection		
Landscaping		
Public Notifications		
Noise		
XXXXX		
Do you know there are fines (that apply personally as well as to the company) associated with pollution to the environment?	Yes / No	
Do you know there are fines (that apply personally as well as to the company) associated with WHS breeches?	Yes / No	
Do you know there are fines (that apply personally as well as to the company) associated with non-compliance of DA conditions?	Yes / No	
Are you ready to take responsibility for your actions such that the environment is kept safe, people are safe and there are no unapproved changes to the DA conditions.	Yes / No	