

NOVEMBER 2024

Environmental Impact Statement

Appendix 2

AUSTRALIAN NAVAL INFRASTRUCTURE



URPS



Environmental Impact Statement

We acknowledge and pay our respects to the Traditional Owners, the Kurna people of the Adelaide Plains. It is upon their ancestral lands that the development is proposed.

We pay respect to Elders past and present. We respect their spiritual beliefs and connection to land, waters and culture which are of continuing importance to the living Kurna people today. We further acknowledge the contribution and important role that First Nations people continue to play in our shared community.

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1. Appendix 2 - EIS Mitigation Schedule

1.1 Introduction

This Mitigation Schedule summarises the embedded mitigation measures, including Management Plans, licenses and other approvals, identified within the EIS to prevent, reduce or offset the significant adverse effects of development proposals and enhance beneficial effects of the development on the environment, community and economy.

This list is not exhaustive but is based on the proponent's understanding of the development as the time of writing. Where circumstances change, further plans, mitigation measures and consents may be required which will be discussed with the applicable statutory bodies as relevant.

1.2 Design

1.2.1 Air Quality

No major abrasive blasting activities will be undertaken outdoors. Blasting operations will be undertaken indoors within a suitably designed and construct building which incorporates appropriate ventilation and filter systems.

Undertake major manufacturing activities indoors within a suitably designed and construct building which incorporates particle filters within exhaust systems.

1.2.2 Noise

Abrasive blasting operations will be undertaken indoors within a suitably designed and construct building which incorporates appropriate acoustic attenuation measures.

Undertake major manufacturing activities indoors within a suitably designed and construct building which incorporates acoustic attenuation measures.

1.2.3 Flooding

At a very minimum, surface and building levels across the development site would be set above the 1% AEP design flood envelope, with an appropriate allowance for increased rainfall, sea level rise, land subsidence or uplift, and coastal erosion. To achieve this, finished surface levels would be set above a minimum level of 3.30 mAHD and building floor levels set above a minimum level of 3.55 mAHD. This is consistent with recommendations for coastal developments.

Critical buildings and infrastructure may be raised to higher elevations to protect against more extreme flood events. The required levels of flood protection for this critical infrastructure are yet to be determined and are subject to future detailed design. In addition to raised surface and building levels, the development will include a sea wall along the eastern boundary of Area 3 to protect the development site from extreme storm surges or tidal interactions. The design requirements and height of this sea wall are subject to further detailed design.

1.2.4 Stormwater Management Plan

An operational Stormwater Management Plan will be implemented for the development, which would include:

- Stormwater runoff will be captured by the major and minor drainage network, which then conveys flow towards a series of detention systems. The drainage network would be designed to provide the following minimum levels of service:
 - Minor (underground) network: 10% AEP
 - Major (overland) network: 1% AEP
- Outflows from the detention systems would discharge to outfalls along the Port River. Design of the drainage system would account for tidal interactions, and it is recommended that the drainage system is designed to suitable climate conditions.

1.3 Construction

1.3.1 Construction Environmental Management Plan

A Construction Environmental Management Plan/s (CEMP) will be prepared for the construction phase of the development. The CEMP will incorporate a range of sub-management plans that address particular aspects of the development to ensure that impacts are minimised and managed within acceptable limits.

However, it should be noted that multiple CEMP/s could be developed for the construction phase, each tailored to address the specific environmental needs of different construction activities and contractor arrangements. For example, separate CEMP/s can be created for earthworks, building construction, and other distinct phases of the development. This approach ensures that each CEMP is highly focused on the unique environmental risks and requirements of its respective work type.

An earthworks CEMP might address issues such as erosion control, sediment management, and dust suppression, while a building construction CEMP could focus on noise, air quality, and waste management. This specificity allows for targeted mitigation measures, compliance monitoring, and efficient resource allocation throughout the development. In this way, each phase of construction works is managed with the environmental considerations that are most relevant to it, ensuring effective protection and sustainability efforts across all stages of construction.

Sub-sections to be included in the CEMP/s have been identified in the Table 1 below. The topic column identifies which environmental attribute/s the management measures is relevant to. The mitigation measures column identifies which technical report can be referred to in the appendices for a full list of mitigation measures that are likely to be addressed by each sub-section of the CEMP/s. In addition, any monitoring required will be included within each sub-section of the CEMP/s, as required.

Table 1

Topic	Sub-section of the CEMP/s	Timing	Mitigation measures – reference
Air quality	Construction Air Quality Management Plan	Prior to construction commencing	Refer to Appendix 1.1 Air Quality Assessment for a full list of mitigation measures likely to be captured.
Noise and vibration	Construction Noise and Vibration Management Plan	Prior to construction commencing	Refer to Appendix 1.2 Noise and Vibration Technical Report for a full list of mitigation measures likely to be captured.
Traffic and Transport	Construction Traffic Management Plan	Prior to construction commencing	Refer to Section 9.4.2 of Chapter 9 – Traffic and Transport for further information on the likely contents.
Noise and vibration Biosecurity Marine flora and fauna Coastal and marine	Dredge Management Plan	Prior to dredge works commencing	Refer to Section 20.6.1 of Chapter 20 – Coastal and Marine for further information on the likely contents of the Dredge Management Plan. Refer to Appendix 1.2 Noise and Vibration Technical Memorandum for a full list of noise related mitigation measures likely to be captured. Refer to Appendix 1.5 Biosecurity Report for a full list of biosecurity related mitigation measures likely to be captured. Refer to Appendix 1.6 Terrestrial and Marine Flora and Fauna Ecological Report for a full list of marine flora and fauna mitigation measures likely to be captured.
Biosecurity Coastal and marine	Biosecurity Management Plan	Prior to construction commencing in relation to land based works.	Refer to Appendix 1.5 Biosecurity Report for a full list of mitigation measures likely to be captured.

Topic	Sub-section of the CEMP/s	Timing	Mitigation measures – reference
		Prior to dredge or coastal marine works commencing.	
Biosecurity	Materials Management Plan	Prior to construction commencing	Refer to Appendix 1.5 Biosecurity Report for a full list of mitigation measures likely to be captured.
Terrestrial flora and fauna	Terrestrial Flora and Fauna Management Plan	Prior to construction commencing	Refer to Appendix 1.7 Terrestrial Flora and Fauna Requirements Analysis for a full list of mitigation measures likely to be captured.
Marine flora and fauna Coastal and marine	Marine and Coastal Environmental Management Plan	Prior to marine works commencing	Refer to Appendix 1.7 Terrestrial and Marine Flora and Fauna Ecological Report for a full list of mitigation measures likely to be captured.
Climate change adaptation	Work, Health and Safety	Prior to construction commencing	Refer to Appendix 1.8 Climate Review Report for a full list of mitigation measures likely to be captured.
Sustainable use of resources	Sustainability	Prior to construction commencing	Refer to Appendix 1.10 Sustainable Use of Resources for a full list of mitigation measures likely to be captured.
Waste management	Construction Waste Management Plan	Prior to construction commencing	Refer to Appendix 1.11 Waste Management for a full list of mitigation measures likely to be captured.
Hazard assessment and management	Emergency Preparedness and Response Plan	Prior to construction commencing	Refer to Appendix 1.15 Dangerous Substances for a full list of mitigation measures likely to be captured.

Topic	Sub-section of the CEMP/s	Timing	Mitigation measures – reference
Dangerous substances			
Flooding Surface water Site contamination Marine flora and fauna	Stormwater Management Plan	Prior to construction commencing	Refer to Appendix 1.13 Stormwater Management Plan for a full list of mitigation measures likely to be captured. Refer to Appendix 1.14 Physical Environment for a full list of site contamination related mitigation measures likely to be captured.
Flooding	Emergency Flood Response Plan	Prior to construction commencing	Refer to Appendix 1.13 Stormwater Management Plan for a full list of measures likely to be captured.
Site and groundwater contamination Surface water and groundwater	Soil, Erosion and Contamination Management Plan	Prior to construction commencing	Refer to Appendix 1.13 Stormwater Management Plan for a full list of water quality mitigation measures likely to be captured. Refer to Appendix 1.14 Physical Environment for a full list of soil and contamination related mitigation measures likely to be captured.
Site and groundwater contamination	Acid Sulfate Soil Management Plan	If/when acid sulfate soils are encountered and cannot be avoided	Refer to Appendix 1.14 Physical Environment for a full list of mitigation measures likely to be captured.
Site and groundwater contamination	Dewatering Management Plan	Prior to dewatering activities	Refer to Appendix 1.14 Physical Environment for a full list of mitigation measures likely to be captured.

Topic	Sub-section of the CEMP/s	Timing	Mitigation measures – reference
Aboriginal cultural heritage	Heritage Management	Prior to construction commencing	Refer to Appendix 1.18 Aboriginal Heritage Desktop Assessment for a full list of mitigation measures likely to be captured.
European places and areas			Refer to Appendix 1.20 Heritage Places and Areas Report for a full list of mitigation measures likely to be captured.

1.4 Operations

An Operational Environmental Management Plan (OEMP) will be prepared for the operational phase of the development. The OEMP will incorporate a range of sub-sections that address particular aspects of the development to ensure that impacts are minimised and managed within acceptable limits.

Sub-sections to be included in the OEMP have been identified in the table below. The topic column identifies which environmental attribute/s the sub-section is relevant to. The timing column identifies at what phase of the development each sub-section is likely to be prepared. The mitigation measures column identifies which technical report can be referred to in the appendices for a full list of mitigation measures that are likely to be addressed by each sub-section of the OEMP. In addition, any monitoring required will be included within each sub-section of the OEMP, as required.

1.4.1 Operational Environmental Management Plan

Topic	Sub-section of the OEMP	Timing	Mitigation measures – reference
Air quality	Air Quality Management Plan	Prior to operations commencing	Refer to Appendix 1.1 Air Quality Assessment for a full list of mitigation measures likely to be captured.
Biosecurity	Biosecurity Management Plan	Prior to operations commencing	Refer to Appendix 1.5 Biosecurity Report for a full list of mitigation measures likely to be captured.
Terrestrial Flora and Fauna	Terrestrial Flora and Fauna Management Plan	Prior to operations commencing	Refer to Appendix 1.6 Terrestrial and Marine Flora and Fauna Ecological Report for a full list of mitigation measures likely to be captured.

Topic	Sub-section of the OEMP	Timing	Mitigation measures – reference
Marine flora and fauna Coastal and marine	Marine and Coastal Environmental Management Plan	Prior to marine operations commencing	Refer to Appendix 1.6 Terrestrial and Marine Flora and Fauna Ecological Report for a full list of mitigation measures likely to be captured.
Climate change adaptation	Work, Health and Safety	Prior to operations commencing	
Greenhouse gas emissions	Greenhouse Gas Emissions Reduction Strategy	Prior to operations commencing	Refer to Appendix 1.9 Greenhouse Gas Emissions for a full list of mitigation measures likely to be captured.
Sustainable use of resources	Sustainability Strategy	Prior to operations commencing	Refer to Appendix 1.10 Sustainable Use of Resources for a full list of mitigation measures likely to be captured.
Waste management	Operational Waste Management Plan	Prior to operations commencing	Refer to Appendix 1.11 Waste Management for a full list of mitigation measures likely to be captured.
Hazard assessment and management Dangerous substances	Emergency Preparedness and Response Plan	Prior to operations commencing	Refer to Appendix 1.15 Dangerous Substances for a full list of mitigation measures likely to be captured.
Flooding Surface water Contamination Marine Flora and Fauna	Stormwater Management Plan	Prior to operations commencing	Refer to Appendix 1.13 Stormwater Management Plan for a full list of mitigation measures likely to be captured. Refer to Appendix 1.14 Physical Environment for a full list of site contamination related mitigation measures likely to be captured.

Topic	Sub-section of the OEMP	Timing	Mitigation measures – reference
Surface water Contamination	Dewatering Management Plan	Prior to dewatering	Refer to Appendix 1.14 Physical Environment for a full list of mitigation measures likely to be captured.

1.5 EPA licenses

Schedule 1 of the EP Act prescribes particular activities as being of environmental significance, requiring licensing under the EP Act. Prescribed activities of environmental significance are also reflected in the provisions requiring referral of proposals to agencies under Part 9.1 of the Code, and Schedule 9 of the Regulations.

The potential prescribed activities of environmental significance pertaining to the development are listed in Table 3 and will likely require EPA licenses under the EP Act.

Table 3

Category	Activity	Construction	Operation
1 - Petroleum and Chemical	(1) Chemical Storage and Warehousing Facilities the storage or warehousing of chemicals or chemical products that are, or are to be, stored or kept in bulk or in containers having a capacity exceeding 200 litres at facilities with a total storage capacity exceeding 1 000 cubic metres.	✓	✓
2 - Manufacturing and Mineral Processing	(1) Abrasive Blasting the cleaning of materials by the abrasive action of any metal shot or mineral particulate propelled in a gaseous or liquid medium (otherwise than solely by using blast cleaning cabinets less than 5 cubic metres in volume or totally enclosed automatic blast cleaning units).		✓
	(12) Surface Coating the conduct of— (a) works for metal finishing, in which metal surfaces are prepared or finished by means of electroplating, electrolyse plating, anodising (chromating, phosphating and colouring), chemical etching or milling, or printed circuit board manufacture,		✓

Category	Activity	Construction	Operation
	being works producing more than 5 kilolitres per day of effluent; or (b) works for hot dip galvanising; or (c) works for spray painting or powder coating with a capacity to use more than 100 litres per day of paint or 10 kilograms per day of dry powder.		
	(14) Maritime Construction Works the conduct of works for the construction or repair of ships, vessels or floating platforms or structures, being works with the capacity to construct or repair ships, vessels or floating platforms or structures of a mass exceeding 80 tonnes.		✓
3 - Resource recovery, waste disposal and related activities	(5) Activities involving listed wastes: (a) an activity producing listed waste—the conduct of an activity in which a listed waste is produced as waste or becomes waste (c) treatment of listed waste—the conduct of a depot, facility or works for the treatment of a listed waste, or wastewater containing a listed waste, by immobilising, stabilising or sterilising the waste by any process (before its further treatment or disposal) but excluding an activity in respect of which the Authority is satisfied, having regard to the prescribed factors, that an environmental authorisation is not justified.		✓
7 - Materials Handling and Transportation	(4) Dredging removing solid matter from the bed of any marine waters or inland waters by any digging or suction apparatus, but excluding works carried out for the establishment of a visual aid to navigation and any lawful fishing or recreational activity.	✓	
	(6) Earthworks Drainage the conduct of earthworks operations in the course of which more than 100 kilolitres of wastewater	✓	

Category	Activity	Construction	Operation
	containing suspended solids in a concentration exceeding 25 milligrams per litre is discharged directly or indirectly to marine waters or inland waters.		
Other	(4) Marinas and Boating Facilities the conduct of— (a) facilities comprising pontoons, jetties, piers or other structures (whether on water or land) designed or used to provide moorings or dry storage for 50 or more powered vessels at any one time; or (b) works for the repair or maintenance of vessels with the capacity to handle 5 or more vessels at any one time or vessels 12 metres or more in length.		✓
	(7) Discharges to Marine or Inland Waters: the conduct of operations, other than a desalination plant referred to in subclause (6a), involving discharges into marine waters or inland waters where— (b) the total volume of the discharges exceeds 50 kilolitres per day.	✓	✓

1.6 Other licences and approvals

Other licences and approvals required for the development include:

1.6.1 Strategic Assessment under the EPBC Act

A parallel Strategic Assessment process is being undertaken under the EPBC Act for the development. Approval under the EPBC Act will be required before works can commence.

1.6.2 Nuclear

All required nuclear licenses and approvals will be secured for the development site. In addition to the EPA licenses identified above, this will include a site licence to prepare the site for a controlled activity under the *Australian Radiation Protection and Nuclear Safety Act 1998*, and an Australian naval nuclear power safety licence to undertake regulated activities related to facility activities, submarine activities and material activities under the *Australian Naval Nuclear Power Safety Bill 2024*.

1.6.3 Native Vegetation Clearance Data Report

A Native Vegetation Clearance Data Report will be prepared by an Accredited Consultant approved by the Native Vegetation Council as per the *Native Vegetation Act 1991* for any clearance of seagrass or other native vegetation protected under the Act once the final design of the development and the quantity of seagrass or other native vegetation to be removed has been confirmed.

Adelaide

27 Halifax Street
Enter via Symonds Pl
Adelaide, SA 5000

(08) 8333 7999

Melbourne

Level 3, 107 Elizabeth Street
Melbourne, VIC 3001

(03) 8593 9650

Perth

Level 17, 1 Spring Street
Perth, WA 6000

(08) 6285 3177

