

**Appendix D - Secretary's environmental assessment requirements checklist**

The aim of the Modification Report is to address the relevant Secretary's Environmental Assessment Requirements (SEARs) provided by the NSW Department of Planning, Housing and Infrastructure (DPHI) on 27 February 2025 (Application number MP08\_0249 Mod-5).

**Table D-1: SEARs**

Desired performance outcome	Requirement	Where addressed
<b>General SEARs</b>		
<b>1. Modification Report</b>  The modification is described in sufficient detail to enable clear understanding that the modification has been developed through an iterative process of impact identification and assessment and modification refinement to avoid, minimise or offset impacts so that the modification, on balance, has the least adverse environmental, social and economic impact, including its cumulative impacts.	<b>1.</b> The Modification Report must include, but not necessarily be limited to, the following:	
	<u>General Information</u>	
	(a) executive summary.	<b>Section(s) in Report:</b> Executive Summary
	(b) a description of the existing Concept Plan and Stage 1, including key components and activities (including ancillary components and activities) required to construct and operate the project and its staging.	<b>Section(s) in Report:</b> Section 1.3
	(c) statutory context of the modified project, including: <ul style="list-style-type: none"> <li>- how the provisions of the EP&amp;A Act and EP&amp;A Regulation are met</li> <li>- a list of any approvals that must be obtained under any other Act or law before the modified project may lawfully be carried out.</li> </ul>	<b>Section(s) in Report:</b> Chapter 2
	(d) a chapter that synthesises the environmental impact assessment and provides: <ul style="list-style-type: none"> <li>- a succinct but full description of the modification for which approval is sought</li> <li>- a description of any uncertainties that still exist around the construction and operation of the modification and how these will be resolved</li> <li>- a compilation of the impacts of the modification that have not been avoided</li> <li>- a compilation of the proposed measures associated with each impact of the modification to avoid or minimise or offset these impacts</li> <li>- a compilation of the outcome(s) and criteria the modification will achieve and how these will be monitored</li> <li>- the reasons justifying carrying out the modification as proposed, having regard to the biophysical, economic and social considerations, including ecologically sustainable development and cumulative impacts.</li> </ul>	<b>Section(s) in Report:</b> Chapter 9
	(e) relevant plans, drawings, diagrams in an electronic format that enables integration with mapping and other technical software.	<b>Section(s) in Report:</b> Figure 1-1 Figure 1-2 Figure 1-3 Figure 5-1
	<u>Concept Plan</u>	
	(f) modification overview including:	<b>Section(s) in Report:</b>

Desired performance outcome	Requirement	Where addressed
	<ul style="list-style-type: none"> <li>- a description of the key changes to the Concept Plan, including areas of dredging and reclamation</li> <li>- a description of the staging of the Concept Plan.</li> </ul>	Chapter 5
	<b>(g)</b> a statement of the objective(s) of the Concept Plan.	<b>Section(s) in Report:</b> Section 4.2
	<b>(h)</b> a summary of the strategic need for the modification and relevant State Government policy, having regard to the relevant State Significant Infrastructure Guidelines.	<b>Section(s) in Report:</b> Chapter 3
	<b>(i)</b> an analysis of any feasible alternatives to the modification.	<b>Section(s) in Report:</b> Section 4.2.1
	<b>(j)</b> a description of feasible options to the modification.	<b>Section(s) in Report:</b> Section 4.2.2
	<b>(k)</b> a description of how modification alternatives and options were analysed to inform the selection of the preferred alternative / option. The description must contain sufficient detail to enable an understanding of why the preferred alternative to and options(s) within the modification were selected.	<b>Section(s) in Report:</b> Section 4.2.3 Section 4.2.4
	<u>Stage 1</u>	
	<b>(l)</b> modification overview including: <ul style="list-style-type: none"> <li>- a description of the key changes to Stage 1</li> <li>- a statement of the objective(s) of the modification.</li> </ul>	<b>Section(s) in Report:</b> Section 4.3.1
	<b>(m)</b> a concise description of different construction methods that were analysed and preferred methods.	<b>Section(s) in Report:</b> Section 4.3.3
	<b>(n)</b> a concise description of the general biophysical and socio-economic environment that is likely to be impacted by the modification (including off-site impacts). Elements of the environment that are not likely to be affected by the modification do not need to be described.	<b>Section(s) in Report:</b> Section 7.1
	<b>(o)</b> a demonstration of how the modification design has been developed to avoid or minimise likely adverse impacts.	<b>Section(s) in Report:</b> Section 4.3.2
	<b>(p)</b> the identification and assessment of Stage 1 key issues as provided in the 'Assessment of Key Issues' performance outcome.	<b>Section(s) in Report:</b> Section 7.2.2 Section 7.3.2 Section 7.4.2 Section 7.5.2

Desired performance outcome	Requirement	Where addressed
		Section 7.6.2
	(q) a statement of and the quantification of outcomes and performance criteria the modification will achieve for each key issue and other issue.	<b>Section(s) in Report:</b> Section 7.2.2 Section 7.3.2 Section 7.4.2 Section 7.5.2 Section 7.6.2
	(r) measures to avoid, minimise or offset modification impacts must be linked to the impact(s) they treat, so it is clear which measures will be applied to each impact.	<b>Section(s) in Report:</b> Section 7.2.5 Section 7.3.4 Section 7.4.4 Section 7.5.4 Section 7.6.5 Section 7.8.4
	(s) consideration of the interactions between measures proposed to avoid or minimise impact(s), between impacts themselves and between measures and impacts.	<b>Section(s) in Report:</b> Section 7.2.5 Section 7.3.4 Section 7.4.4 Section 7.5.4 Section 7.6.5 Section 7.8.4
	(t) An assessment of the relevant cumulative impacts of the modification taking into account other projects that have been approved but where construction has not commenced, projects that have commenced construction, and projects that have recently been completed.	<b>Section(s) in Report:</b> Section 7.8.2
	2. The Modification Report must only include data and analysis that is reasonably needed to determine the modification. Relevant information must be succinctly summarised in the Modification Report and included in full in appendices.	<b>Section(s) in Report:</b> N/A

Desired performance outcome	Requirement	Where addressed
	Irrelevant, conflicting or duplicated information must be avoided.	
<p><b>2. Assessment and Mitigation of Key Issues and Impacts</b></p> <p>Key issues and impacts are assessed objectively and thoroughly to provide confidence that the modification will be constructed and operated within acceptable levels of impact or with appropriate management and offsets.</p> <p>Key impact issues are nominated by the Proponent in the modification Scoping Report and by the Department in the SEARs. Key issues need to be reviewed throughout the preparation of the Modification Report to ensure any new key issues that emerge are captured.</p> <p>The key issues identified in this document are not exhaustive but are key issues common to most State significant infrastructure projects.</p>	<p><b>1.</b> The level of assessment of likely modification impacts must be proportionate to the significance of, or degree of impact on, the issue, within the context of the approved project and the surrounding environment. The level of assessment must be commensurate to the degree of impact and sufficient to ensure that the Department and other government agencies are able to understand and assess impacts.</p>	<p><b>Section(s) in Report:</b> Chapter 7</p>
	<p><b>2.</b> For each key issue, the Modification Report must include a detailed summary of the results of the assessment of the potential impacts of the modification undertaken in studies, including:</p> <ul style="list-style-type: none"> <li><b>(a)</b> the condition of the existing environment.</li> <li><b>(b)</b> a summary of the key findings of the detailed technical studies in the appendices (as relevant) of the Modification Report, using suitable cross-referencing to reduce repetition between the Concept Plan and Stage 1 assessments of the Modification Report.</li> <li><b>(c)</b> description of the scale and nature of the predicted impacts, including any cumulative impacts, and whether these impacts will comply with the relevant statutory requirements, standards or performance measures</li> <li><b>(d)</b> demonstrated ability to avoid, mitigate or offset the impacts of the modification having regards to: <ul style="list-style-type: none"> <li>- mitigation measures incorporated into the design of the modification (e.g. changes to the modification area, modification layout and design, key uses and activities carried out on site, timing)</li> <li>- other mitigation measures that will be implemented</li> <li>- any negotiated agreements or offsets proposed to address residual impacts of the modification following mitigation.</li> </ul> </li> <li><b>(e)</b> detailed reasons justifying any predicted exceedances of approved environmental parameters and/or relevant standards or performance measures.</li> <li><b>(f)</b> identification of key uncertainties associated with the assessment and what action will be taken to address these uncertainties.</li> <li><b>(g)</b> highlight any key linkages between the assessment of different matters or likely cumulative impacts of the modification.</li> </ul>	<p><b>Section(s) in Report:</b> Chapter 7</p>
	<p><b>3.</b> Where multiple reasonable and feasible options to avoid or minimise impacts are available, they must be identified and considered, and the proposed measure justified taking into account the public interest.</p>	<p><b>Section(s) in Report:</b> Section 7.2.5 Section 7.3.4</p>

Desired performance outcome	Requirement	Where addressed
		Section 7.4.4 Section 7.5.4 Section 7.6.5 Section 7.8.4
<b>3. Key Appendices</b>	<b>1.</b> The Modification Report must include the following appendices:	
	<b>(a)</b> a SEARs table, identifying the sections and subsections where the SEARs have been addressed in the Modification Report and in the specialist assessment reports; assess the issue (including modelling as relevant), and address and undertake the requirements specified in the Key Issue SEARs.	<b>Section(s) in Report:</b> Appendix D
	<b>(b)</b> a statutory compliance table, identifying where the relevant statutory requirements have been addressed in the Modification Report.	<b>Section(s) in Report:</b> Appendix C
	<b>(c)</b> a community engagement table, identifying where the issues raised by the community during engagement have been addressed in the Modification Report.	<b>Section(s) in Report:</b> Appendix E
	<b>(d)</b> a table of the proposed mitigation measures for the modification (excluding any mitigation measures that are built into the physical layout and design of the modification and captured in the modification description).	<b>Section(s) in Report:</b> Appendix B
	<b>(e)</b> any supporting information, including any detailed technical reports prepared by specialists.	<b>Section(s) in Report:</b> Appendices
<b>4. Consultation</b>  The modification is developed with meaningful and effective engagement during its design and delivery.	<b>1.</b> The modification must be informed by consultation, including with relevant local, State and Commonwealth Government agencies, infrastructure and service providers, special interest groups, Aboriginal community, affected landowners, businesses and the community.	<b>Section(s) in Report:</b> Section 6.1
	<b>2.</b> The consultation process must be documented and include information on how the modification has responded to feedback received.	<b>Section(s) in Report:</b> Section 6.1
	<b>3.</b> The timing and type of community consultation proposed during the design and delivery of the modification must be described, including the mechanisms for community feedback, the mechanisms for keeping the community informed, and procedures for complaints handling and resolution.	<b>Section(s) in Report:</b> Section 6.2
<b>Key Issue SEARs</b>		
<b>1. Aquatic Biodiversity</b>	<b>1.</b> Prepare an aquatic habitat and threatened aquatic species assessment for the modification (under Parts 7 and 7A of the Fisheries Management Act 1994 (FM Act)) to address whether	<b>Section(s) in Report:</b> Section 7.2

Desired performance outcome	Requirement	Where addressed
<p>The modification design considers measures to avoid and minimise impacts on aquatic biodiversity.</p> <p>Offsets and/or supplementary measures are assured which are equivalent to residual construction and operational impacts.</p>	there are likely to be any significant impact changes on listed threatened species, populations or ecological communities listed under the FM Act, Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act), and key fish habitat.	Appendix F.
	2. Identify whether the modification, or any component of the modification, would be classified as a Key Threatening Process (KTP) in accordance with the listings in the Biodiversity Conservation Act 2021 (BC Act), FM Act and the EPBC Act.	<b>Section(s) in Report:</b> Section 7.2.3 Appendix F.
<p><b>2. Contamination</b></p> <p>Human and environmental health is protected by understanding the presence and risks associated with contaminated land, including impacts to soils, groundwater, surface water and sediments.</p> <p>Contamination risks are independently considered consistent with the auditing regime established under the Contaminated Land Management Act, 1979</p>	<p>1. Prepare a Preliminary Site Investigation for the modification and its surrounds which identifies past and present potentially contaminating activities and land uses, the likelihood of contamination (which includes soils, dredging or surrounding source material, groundwater, ground gas, surface water and sediments, where applicable) the potential contamination types and need for further investigations.</p> <p><i>Note: Preliminary sampling and analysis may be required to assess the need for a detailed investigation where contaminating activities are known to have occurred/are occurring or if the site history is incomplete.</i></p>	<b>Section(s) in Report:</b> Section 7.3 Appendix G1.
	2. Where contamination is considered likely based on past or current land uses or other factors (such as off-site contamination migrating onto the site), and the Preliminary Site Investigation identifies the need for further investigation, a Detailed Site Investigation must be undertaken to determine the nature and extent of the contamination.	<b>Section(s) in Report:</b> Section 7.3.1 Appendix G1.
	3. Where contamination exists, assess if remediation is required, having regard to the ecological and human health risks posed by the contamination.	<b>Section(s) in Report:</b> Appendix G1.
	4. Any Preliminary Site Investigation, Detailed Site Investigation, or other related reports on contamination (including but not limited to a Sampling Analysis Quality Plan), must be accompanied with an Interim Audit Advice or a Site Audit Statement from a NSW EPA accredited Site Auditor certifying the appropriateness of the assessments. Any risk rating of areas of environmental interest (or areas of environmental concerns or any other similar terminology) as well as the proposed mitigation measures must be also reviewed as appropriate by the accredited Site Auditor.	<b>Section(s) in Report:</b> Section 7.3.2 Section 7.3.3 Appendix G1 Appendix G2.
	5. Document how the assessment of contaminated land has had regard to the relevant guidelines for contaminated land made or approved under Section 105 of the Contaminated Land Management Act 1997.	<b>Section(s) in Report:</b> Section 7.3 Appendix G1.
	6. Assess potential impacts to existing contaminated material containment cells within and adjacent to the modification.	<b>Section(s) in Report:</b>

Desired performance outcome	Requirement	Where addressed
		Section 7.3.2 Appendix G1.
	7. All reports on contamination must be prepared by a suitably qualified contaminated land consultant who may also be certified.	<b>Section(s) in Report:</b> Appendix G1.
<b>3. Hazards and Risks</b>  The modification minimises risks from dangerous goods and hazardous materials through appropriate screening and controls.  The modification ensures all hazardous materials handling, storage and transport meets NSW risk criteria.  Where relevant, the modification addresses pipeline corridor safety through consultation and hazard analysis.	1. Where the modification results in changes to the quantity and class of dangerous goods and hazardous materials associated with the approved Concept Plan and Stage 1 project, provide a preliminary risk screening in accordance with Chapter 3 of State Environmental Planning Policy (Resilience and Hazards) 2021.	<b>Section(s) in Report:</b> N/A
	2. Where the preliminary risk screening indicates the modification is potentially hazardous, provide a Preliminary Hazard Analysis (PHA) of the modification prepared in accordance with Hazardous Industry Planning Advisory Paper No.6 – Guidelines for Hazard Analysis and Multi-Level Risk Assessment. The PHA must:	N/A
	(a) consider potential risks associated with storing and handling dangerous goods on-site, and transporting such goods to and from the port, including identifying hazards from transit cargo (dangerous goods) on board vessels in the Outer Harbour.	<b>Section(s) in Report:</b> Section 7.6.2 Section 7.6.3
	(b) consider the throughput of dangerous goods cargo, including quantities, locations and classes of dangerous goods utilising the berths within the modification areas, compared with the approved throughput under the Concept Plan approval, where relevant.	<b>Section(s) in Report:</b> Section 7.6.2 Section 7.6.3
	(c) consider adjacent pipelines and bulk storage facilities handling dangerous and/or hazardous materials.	<b>Section(s) in Report:</b> Section 7.6.2 Section 7.6.3
	(d) provide historical Port Kembla data on the quantities and classes of dangerous goods, where available (if reliable data is unavailable, representative data from other NSW ports may be used).	<b>Section(s) in Report:</b> Section 7.6.1
	(e) demonstrate that the modification would not significantly affect the risk profile established in the approved hazard analysis, where relevant.	<b>Section(s) in Report:</b> Section 7.6.2 Section 7.6.3
	(f) demonstrate that off-site risks do not exceed the NSW risk criteria set out in the Department of Planning's Hazardous	<b>Section(s) in Report:</b>



Desired performance outcome	Requirement	Where addressed
	Industry Planning Advisory Paper No. 4: Risk Criteria for Landuse Safety Planning.	Section 7.6.2 Section 7.6.3
	(g) demonstrate that the modification would not affect the conclusions established in the Port Kembla Land Use Safety Study.	<b>Section(s) in Report:</b> Section 7.6.2 Section 7.6.3
	(h) report on potential impacts and risk exposure to all shipping and terminal activities at Port Kembla, including assessment of port navigation channels and manoeuvring areas, focusing on LNG vessels and other Dangerous Goods Cargo Shipments entering and exiting Port Kembla, consideration of risks from grounding and collision with berth lines, and details of required safeguards.	<b>Section(s) in Report:</b> Section 7.6.2 Section 7.6.3
<b>4. Hydrodynamics</b>  The modification is designed, constructed, and operated to avoid or minimise adverse impacts on the hydrodynamic conditions of the harbour and its associated coastal processes, ensuring that dredging and changes to tidal flows, wave action, and sediment transport do not negatively affect marine habitats, shoreline stability, or adjacent developments.	1. Conduct a hydrodynamic impact assessment of the modification in relation to the Port Kembla Inner and Outer Harbours, addressing the interim and final stages of Outer Harbour configurations in the modified Concept Plan. The assessment must:	<b>Section(s) in Report:</b> Section 7.5 Appendix I.
	(a) utilise modelling techniques to simulate the existing and post-modification hydrodynamic regime, including tidal circulation, wave climate, and sediment transport processes.	<b>Section(s) in Report:</b> Section 7.5 Appendix I.
	(b) evaluate and quantify potential impacts of the proposed modification on coastal processes and hazards including: <ul style="list-style-type: none"> <li>i. Harbour flushing characteristics.</li> <li>ii. Tidal current velocities and patterns.</li> <li>iii. Wave propagation and attenuation.</li> <li>iv. Sediment erosion, transport, and deposition dynamics.</li> </ul>	<b>Section(s) in Report:</b> Section 7.5.2 Section 7.5.3 Appendix I.
	(c) assess the potential for changes in shoreline morphology and stability resulting from altered hydrodynamic patterns, with particular focus on any sensitive coastal environments or infrastructure within the study area.	<b>Section(s) in Report:</b> Section 7.5.2 Section 7.5.3 Appendix I.
	2. Assess the impacts of the proposed modification during construction and operation on marine and relevant terrestrial environments, including:	
	(a) evaluation of potential effects on sensitive ecosystems resulting from changes in hydrodynamic processes.	<b>Section(s) in Report:</b> Section 7.5.2 Section 7.5.3 Appendix I.

Desired performance outcome	Requirement	Where addressed
	<b>(b)</b> analysis of dredging and spoil management impacts, including: <ul style="list-style-type: none"> <li><b>i.</b> Sediment dispersion and resuspension.</li> <li><b>ii.</b> Disposal options and their hydrodynamic implications.</li> <li><b>iii.</b> Potential disturbance of dinoflagellate cysts.</li> <li><b>iv.</b> Potential disturbance of contaminated seabed sediments.</li> </ul>	<b>Section(s) in Report:</b> Appendix I.
	<b>3.</b> Include a climate change hydrodynamic risk assessment for the proposed modification, addressing:	
	<b>(a)</b> projected sea level rise scenarios and their implications for the modification design.	<b>Section(s) in Report:</b> Appendix I.
	<b>(b)</b> increased frequency and intensity of storm events and associated impacts on the harbour, wave climate and coastal processes.	<b>Section(s) in Report:</b> Appendix I.
	<b>(c)</b> potential changes to hydrodynamic conditions under future climate scenarios and their effects on the resilience of the modified project.	<b>Section(s) in Report:</b> Appendix I.
	<b>4.</b> Provide a mitigation and management strategy that:	
	<b>(a)</b> identifies and justifies potential mitigation measures to be applied, including but not limited to the effectiveness of learning(s) from previous projects, works, case studies and identification of good practice to manage hydrodynamic impacts relevant to the proposed modification activities.	<b>Section(s) in Report:</b> Section 7.5.4 Appendix I.
	<b>(b)</b> identifies and assesses the predicted effectiveness of mitigation measures including the effect on hydrodynamic processes (both within the harbour and along adjacent coastlines), time scales of impact, and duration.	<b>Section(s) in Report:</b> Appendix I.
	<b>(c)</b> identifies potential residual hydrodynamic impacts and their significance following application of mitigation measures.	<b>Section(s) in Report:</b> Section 7.6.4 Appendix I.
<b>5. Water – Hydrology (ground and surface)</b>  Long term impacts on surface water and groundwater hydrology (including drawdown, flow rates and volumes) are minimised.  The environmental values of nearby, connected and affected water sources, groundwater and dependent ecological systems including estuarine and marine water (if applicable) are maintained (where values	<b>1.</b> Provide a Surface and Groundwater Impact assessment of the modification that:	
	<b>(a)</b> Describes works that may intercept, extract, use, divert or receive surface water and/or groundwater. This includes the description of any development, activities or structures that will intercept, interfere with or remove groundwater, both temporary and permanent.	<b>Section(s) in Report:</b> Section 7.4.2 Section 7.4.3 Appendix H.
	<b>(b)</b> Assesses impacts on surface and ground water sources (both quality and quantity), related infrastructure, adjacent licensed water users, basic landholder rights, watercourses, riparian land, groundwater dependent ecosystems, and ground water	<b>Section(s) in Report:</b> Section 7.4.2

Desired performance outcome	Requirement	Where addressed
<p>are achieved) or improved and maintained (where values are not achieved).</p> <p>The sustainable use of water resources.</p>	levels and condition including measures proposed to reduce and mitigate these impacts.	Section 7.4.3 Appendix H.
	(c) (d) details proposed surface and groundwater monitoring activities and methodologies.	<b>Section(s) in Report:</b> Section 7.4.4 Appendix H.
	(d) details of the proposed method of dewatering dredged material / sediments that are proposed to be used in the reclamation of the modified port land.	<b>Section(s) in Report:</b> Appendix H.
<p><b>6. Water - Quality</b></p> <p>The modification is designed, constructed and operated to protect the NSW Water Quality Objectives where they are currently being achieved, and contribute towards achievement of the Water Quality Objectives over time where they are currently not being achieved, including downstream of the modification to the extent of the modification impact including estuarine and marine waters (if applicable)</p>	<b>1. Assess the Water Quality (surface and groundwater) impacts of the modification, including:</b>	
	(a) an assessment of construction and operational water quality impacts of the modification, including the ambient NSW Water Quality Objectives (NSW WQO) and environmental values for the receiving waters relevant to the modification, including the indicators and associated trigger values or criteria for the identified environmental values.	<b>Section(s) in Report:</b> Section 7.4.2 Section 7.4.3 Appendix H.
	(b) identifying and estimating the quality and quantity of pollutants that may be introduced into the water cycle by source and discharge point and describe the nature and degree of impact that any discharge(s) may have on the receiving environment, including consideration of all pollutants that pose a risk of non-trivial harm the environment.	<b>Section(s) in Report:</b> Appendix H.
	(c) identifying the rainfall event that the water quality protection measures of the modification will be designed to cope with.	<b>Section(s) in Report:</b> Appendix H.
	(d) the significance of any identified impacts including consideration of the relevant ambient water quality outcomes.	<b>Section(s) in Report:</b> Section 7.4.2 Section 7.4.3 Appendix H.
	(e) demonstrating how construction and operation of the modification will, to the extent that the modification can influence, ensure that: <ul style="list-style-type: none"> <li>– where the NSW WQOs for receiving waters are currently being met, they will continue to be protected</li> <li>– where the NSW WQOs are not currently being met activities will work toward their achievement over time</li> </ul>	<b>Section(s) in Report:</b> Appendix H.

Desired performance outcome	Requirement	Where addressed
	(f) justifying, if required, why the WQOs cannot be maintained or achieved over time.	<b>Section(s) in Report:</b> Appendix H.
	(g) identifying proposed monitoring locations, monitoring frequency and indicators of surface water quality.	<b>Section(s) in Report:</b> Appendix H.
<b>7. Other Issues</b>  The level of assessment of likely modification impacts must be proportionate to the significance of, or degree of impact on, the issue, within the context of changes to the approved project and the surrounding environment.	<b>1. Air Quality</b>	
	(a) Undertake an air quality impact assessment (AQIA) of the construction and operation of the modification in accordance with the current guidelines.	<b>Section(s) in Report:</b> Section 7.7.2
	<b>2. Climate Change</b>	
	(a) Assess the risk and vulnerability of the modification to climate change in accordance with the current guidelines. Provide details of specific adaptation actions that will be incorporated into the design of the modification.	<b>Section(s) in Report:</b> Section 7.7.2 Section 7.7.3.
	(b) Include an estimate of greenhouse gas (GHG) emissions for the modification by carrying out a Greenhouse Gas Assessment consistent with the most recent version of the EPA's <i>Greenhouse Gas Assessment Guide for Large Emitters</i> (GHG guide).	<b>Section(s) in Report:</b> N/A
	<b>3. Design and Place</b>	
	(a) Identify and illustrate design and place outcomes and actions for the modification that protects and facilitates improvements to the built environment and place, including in relation to: <ul style="list-style-type: none"> <li>i. built form.</li> <li>ii. public space and community infrastructure (including access to the space and infrastructure).</li> <li>iii. views and vistas.</li> </ul>	<b>Section(s) in Report:</b> Section 7.7.2
	<b>4. Economic Impacts</b>	
	(a) Assesses economic impacts of the modification on potentially affected properties, businesses, and land and water users, including property acquisitions/adjustments, access, amenity and relevant statutory rights.	<b>Section(s) in Report:</b> Section 7.7.2
	<b>5. Flood Risk</b>	
	(a) Identify the flood planning level for the modification area and identify any: <ul style="list-style-type: none"> <li>i. Flood risks having regard to adopted flood studies.</li> <li>ii. The potential effects of climate change.</li> </ul>	<b>Section(s) in Report:</b> Section 7.7.2 Appendix H.

Desired performance outcome	Requirement	Where addressed
	iii. Any relevant provisions of the NSW Flood Risk Management Manual.	
	(b) Provide details of flood risk management objectives measures that are to be incorporated into the modification including any design solutions, flood management measures, property modification.	<b>Section(s) in Report:</b> Section 7.7.3 Appendix H.
	(c) Provide measures, operational procedures or Flood Emergency Response Plan.	<b>Section(s) in Report:</b> Section 7.7.3.
	<b>6. Heritage – Aboriginal</b>	
	(a) Provide an Aboriginal Cultural Heritage Assessment Report (ACHAR) prepared in accordance with relevant guidelines, identifying, describing and assessing any impacts to any Aboriginal cultural heritage sites or values associated with the site, if required.	<b>Section(s) in Report:</b> Section 7.7.2 Appendix J.
	(b) Where impacts to Aboriginal Cultural Heritage are likely, consultation must be undertaken with Aboriginal people and stakeholders in accordance with the <i>National Parks and Wildlife Regulation 2019</i> and current guidelines.	<b>Section(s) in Report:</b> Section 7.7.2 Appendix J.
	<b>7. Heritage – Environment</b>	
	(a) Where there is potential for direct or indirect impacts on the heritage significance of environmental heritage (including maritime heritage and archaeology), provide a: <ul style="list-style-type: none"> <li>i. Statement of Heritage Impact and Archaeological Assessment (if potential impacts to archaeological resources are identified).</li> <li>ii. Maritime Statement of Heritage Significance (MSOHI) (if potential impacts to maritime heritage/sites/relics/artefacts are identified).</li> </ul>	<b>Section(s) in Report:</b> Section 7.7.2 Appendix K.
	<b>8. Noise and Vibration</b>	
	(a) Provide a construction noise and vibration impact assessment that details construction noise and vibration impact changes on nearby sensitive receivers and structures.	<b>Section(s) in Report:</b> Section 7.7.2
	(b) Provide an operational noise and vibration impact assessment. The assessment must: <ul style="list-style-type: none"> <li>i. describe changes to operational noise sources and levels, and their potential effect on sensitive receivers.</li> <li>ii. identify new or modified vibration sources and potentially affected structures.</li> <li>iii. describe changes to traffic movements and associated noise impacts.</li> <li>iv. outline changes to rail operations and associated noise/vibration impacts.</li> </ul>	<b>Section(s) in Report:</b> Section 7.7.2

Desired performance outcome	Requirement	Where addressed
	v. identify potential changes to noise impacts during night-time hours.	
	<b>9. Transport and Traffic</b>	
	(a) Assess the construction transport and traffic impacts of the modification.	<b>Section(s) in Report:</b> Section 7.7.2
	(b) Assess the operational transport impacts of the modification.	<b>Section(s) in Report:</b> Section 7.7.2
	(c) Assess the changes in maritime traffic and activities in the Outer and Inner Harbours as a result of the modification.	<b>Section(s) in Report:</b> Section 7.7.2
	<b>10. Waste and Utilities</b>	
	(a) Assess the predicted waste generated from the modification during construction and operation, including: <ul style="list-style-type: none"> <li>i. classification of the waste in accordance with the current guidelines.</li> <li>ii. estimates/details of the quantity of each classification of waste to be generated during the construction of the modification, including bulk earthworks and spoil balance.</li> <li>iii. handling of waste including measures to facilitate segregation and prevent cross contamination.</li> <li>iv. management of waste including estimated location and volume of stockpiles.</li> <li>v. waste minimisation and reuse.</li> <li>vi. lawful disposal or recycling locations for each type of waste.</li> <li>vii. contingencies for the above, including managing unexpected waste volumes.</li> </ul>	<b>Section(s) in Report:</b> Section 7.7.2
	(b) Assess potential environmental impacts from the excavation, handling, storage on site and transport of the waste particularly with relation to sediment/leachate control, noise and dust.	<b>Section(s) in Report:</b> Section 7.7.2
	(c) Assess the impacts of the modification on existing utility infrastructure and service provider assets surrounding the site.	<b>Section(s) in Report:</b> Section 7.7.2
	(d) Identify any infrastructure required on-site and off-site to facilitate the modification and any arrangements to ensure that upgrades of infrastructure will be implemented on time and be maintained.	<b>Section(s) in Report:</b> Section 7.7.2