# Pre-Construction Compliance Report

M4-M5 Link Mainline Tunnels







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M4-M5 Link Mainline Tunnels Pre-Construction Compliance Report	

# **Document Control**

## Approval and authorisation

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#### Internal review

	Name	Position	Date	Signed/Authorised
Originator(s)		Environmental Coordinator	18-10-18	d)
Review		Environmental Approvals Manager	18/10/18	
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# Abbreviations/Glossary

Abbreviation	Expanded text			
AA	Acoustic Advisor			
CCS	Community Communications Strategy			
CEMP	Construction Environmental Management Plan			
CSSI	Critical State Significant Infrastructure			
Compliance audit	Verification of how implementation is proceeding with respect to a Construction Environmental Management Plan (CEMP) (which incorporates the relevant approval conditions).			
CoA	Conditions of approval			
CTEAP	Compliance Tracking and Environmental Audit Program			
DPE	Department of Planning and Environment			
EIS	Environmental Impact Statement			
EMS	Environmental Management System			
Environmental aspect	Defined by AS/NZS ISO 14001:2015 as an element of an organisation's activities, products or services that can interact with the environment.			
Environmental impact	Defined by AS/NZS ISO 14001:2015 as any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organisation's environmental aspects.			
Environmental incident	An unexpected event that has, or has the potential to, cause harm to the environment and requires some action to minimise the impact or restore the environment.			
Environmental objective	Defined by AS/NZS ISO 14001:2015 as an overall environmental goal, consistent with the environmental policy, that an organisation sets itself to achieve.			
Environmental policy	Statement by an organisation of its intention and principles for environmental performance.			
Environmental target	Defined by AS/NZS ISO 14001:2015 as a detailed performance requirement, applicable to the organisation or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.			
Environmental Representative (ER)	A suitably qualified and experienced person independent of project design and construction personnel employed for the duration of construction. The principal point of advice in relation to all questions and complaints concerning environmental performance.			
EP&A Act	Environmental Planning and Assessment Act 1979 (NSW)			
Incident	An occurrence or set of circumstances that causes, or threatens to cause, material harm to the environment, community or any member of the community, being actual or potential harm to the health or safety of human beings or to threatened species, endangered ecological communities or ecosystems that is not trivial.			

Abbreviation	Expanded text
ISO	International Organisation for Standards
LSBJV	Lendlease Samsung Bouygues Joint Venture
Minister, the	Minister for Planning
Non-compliance	An occurrence, set of circumstances or development that is a breach of the Conditions of Approval but is not an incident.
Non-conformance	Failure to conform to the requirements of Project system documentation including this CEMP or supporting documentation.
NSW	New South Wales
NZS	New Zealand Standard
PCCR	Pre-Construction Compliance Report
Project, the	M4-M5 Link Mainline Tunnels
REMM	Revised Environmental Management Measure as outlined in the Project SPIR
Roads and Maritime	Roads and Maritime Services
SMC	Sydney Motorway Corporation
SPIR	Submissions and Preferred Infrastructure Report

### 1 Introduction

This Pre-Construction Compliance Report (PCCR) has been prepared to address the requirements of the Minister's Conditions of Approval (CoA), the WestConnex M4-M5 Link Environmental Impact Statement (EIS), the revised environmental management measures (REMM) listed in the WestConnex M4-M5 Link Submissions and Preferred Infrastructure Report (SPIR) and all applicable guidance and legislation. This PCCR is to be implemented for the M4-M5 Link Mainline Tunnels (the Project) to monitor report pre-construction compliance in accordance with the CoA.

#### 1.1 Background

WestConnex is one of the NSW Government's key infrastructure projects which aims to ease congestion, create jobs and connect communities. The 33-kilometre WestConnex motorway will link Sydney's west and south-west with the Sydney Central Business District, Sydney Airport and Port Botany. WestConnex is one component of an integrated solution to meet Sydney's growing transport and infrastructure needs and is consistent with NSW Government transport and planning policies and strategies.

The project was declared by Ministerial Order to be State Significant Infrastructure (SSI) and Critical State Significant Infrastructure (CSSI), under Section 5.12 (4) and Section 5.13 (previously referred to as 115U(4) and 115V prior to amendment of the *Environmental Planning and Assessment Act 1979* (EP&A Act)) as well as under clause 16 of the State Environmental Planning Policy (State and Regional Development) 2011. The Project has been classified as a critical State significant infrastructure by virtue of Schedule 5, clause 4 of State Environmental Planning Policy (State and Regional Development) 2011.

An Environmental Impact Statement (EIS) (AECOM 2017) was prepared and placed on public exhibition from 18 August 2017 to 16 October 2017. Submissions were received from government, agencies, organisations and the public in response to the project. A Submissions and Preferred Infrastructure Report (SPIR) was prepared by Roads and Maritime in response to submissions received during the exhibition period. The Project was approved by the Minister for Planning on 17 April 2018.

#### 1.2 Project Description

The WestConnex M4-M5 Link project is being constructed in two stages:

- Stage 1 (the Project and subject of this document): M4-M5 Link Mainline tunnels
- Stage 2: Rozelle interchange.

Sydney Motorway Corporation (SMC) has engaged Lendlease Samsung Bouygues Joint Venture (LSBJV) to design and construct Stage 1 of the Project. An overview of the project footprint and ancillary facilities is presented in the Construction Environmental Management Plan (CEMP). Further detail of the project description is presented in Section 1.3 of the CEMP.

#### 1.3 Purpose of this report

This Pre-Construction Compliance Report (PCCR) has been prepared in order to address Minister's Conditions of Approval (CoA) A30 and A31 of the planning approval.

LSBJV, Roads and Maritime and SMC together are responsible for compliance with the requirements of the CoA. However, the LSBJV will be responsible for maintaining the Compliance Tracking and Environmental Audit Program (CTEAP) for the Project and for the preparation of the periodic compliance tracking report throughout construction.

As part of the CTEAP, this Pre-Construction Compliance Report (PCCR) has been prepared in accordance with CoA A30 and A31 (refer to Table 1-1), as a provision to report on the compliance status of the project prior to commencement of construction. This PCCR details the compliance status against the CoA (refer to Appendix A) and the Revised Environmental Management Measures (REMM) detailed in the Submissions and Preferred Infrastructure Report (SPIR), provided in Appendix B.

Table 1-1 CoA requirements for this PCCR

CoA no.	Requirement	How addressed
A30	A Pre-Construction Compliance Report must be prepared and submitted to the Secretary for information no later than one (1) month prior to the commencement of construction (or each stage of construction identified in the Staging Report).	This Report will be submitted to the Secretary for information consistent with the CoAs.
A31	The Pre-Construction Compliance Report must include:  (a) details of how the terms of this approval that must be addressed before the commencement of construction have been complied with; and	The details of how compliance with CoAs and REMMs are presented Appendix A and Appendix B
	(b) the proposed commencement date for construction.	Proposed commencement of construction is presented in Section 2.2.

## 2 Project Delivery

#### 2.1 Staging

As stated previously in Section 1.2, the M4-M5 Link Project will be constructed and opened to traffic in two stages.

Stage 1 can be summarised to include:

- Construction of mainline tunnels between the M4 East at Haberfield and the New M5 at St Peters, stub tunnels to the Rozelle interchange (at the Inner West subsurface interchange) and ancillary infrastructure at Campbell Road motorway operations complex (MOC5)
- These works are anticipated to commence in 2018 with the mainline tunnels open to traffic in 2023. At the completion of Stage 1, the mainline tunnels would operate with two traffic lanes in each direction. This would increase to generally four lanes at the completion of Stage 2, when the full project is operational.

Stage 2 can be summarised to include:

- Construction of the Rozelle interchange including:
  - Connections to the stub tunnels at the Inner West subsurface interchange (built during Stage 1)
  - Ancillary infrastructure at the Rozelle West motorway operations complex (MOC2), Rozelle East motorway operations complex (MOC3) and Iron Cove Link motorway operations complex (MOC4)
  - Connections to the surface road network at Lilyfield and Rozelle
  - Construction of tunnels, ramps and associated infrastructure as part of the Rozelle interchange to provide connections to the proposed future Western Harbour Tunnel and Beaches Link project
- Stage 2 works are expected to commence in 2019 with these components of the project open to traffic in 2023.

The total construction period for the Project is programmed to occur across five years, which includes commissioning that would occur concurrently with the final stages of construction. Staging details are provided in the Staging Report submitted to DPE for information.

A more detailed description of how the Project would be constructed is provided in the CEMP and CEMP Sub-plans.

The key objective of this PCCR is to track compliance with the requirements of the CoA relevant to Stage 1 of the Project during the construction and early stages of operation. LSBJV will be responsible for maintaining the CTEAP for the Project and for the preparation of the periodic compliance tracking reports throughout construction as required by CoA A29.

#### 2.2 Timing

Construction on the Project will begin late 2018 and continue until Q4 of 2023. Anticipated key milestones are:

- Site establishment to commence Q4 2018
- Tunnel construction to commence Q1 2019
- Mechanical and electrical fitout work to commence Q2 2021

Testing and commissioning to commence Q4 2022.

#### 2.3 Pre-Construction Works

Some works will be delivered prior to the commencement of construction on the Project, in accordance with the definition of 'construction' in the Project Instrument of Approval. Required approvals will be undertaken prior to commencing pre-construction works. Pre-construction works will primarily be associated with site establishment activities in accordance with the SEMP which was approved by DPE on 28 September 2018.

#### 2.4 Key Roles and Responsibilities

The Project will have the following key environmental roles allocated for the duration of works:

**Contractor's Environment and Sustainability Manager (EM)** – This role represents the LSBJV and is responsible for all aspects of environmental management.

**Environmental Representative (ER)** – This role represents the Secretary of the NSW Department of Planning and Environment (DPE) and is a requirement of CoA A17. The ER acts as the Secretary's independent point of contact for all compliance matters. Refer to CoA A21 and the DPE Environmental Representative Protocol (October 2017) for a comprehensive list of the ER's responsibilities.

**Acoustic Advisor (AA)** – This role represents the Secretary of the NSW DPE and is a requirement of CoA A24. The AA acts as the Secretary's point of contact for all noise and vibration matters. Refer to CoA A25 and CoA A26 for a comprehensive description of the AA's responsibilities.

In accordance with the Instrument of Approval, the ER and AA are to work in conjunction with each other on all matters relating to:

- Review and approval of Out of Hours works
- Noise and vibration audits
- Community conflict resolutions regarding noise and vibration issues
- Consideration of minor amendments to CEMP, relevant Sub-plans and the Noise and Vibration Monitoring Program
- · Assessment of minor ancillary facility noise impacts
- Submission of monthly Noise and Vibration Reports to the Secretary.

**Independent Auditors (IA)** – Independent auditors will be engaged as required to assess compliance with the CoA as required. Details of these audits are provided in Section 3.8.

#### 2.5 Date of commencement of construction

Commencement of construction for the Project is expected to be from 2 November 2018 following the approval of key project documents such as the CEMP and the Community Communications Strategy (CCS).

Construction of the Project will not commence until this PCCR has been submitted to the Secretary for information in accordance with CoA A32.

## 3 Compliance Management

#### 3.1 Construction Environmental Management System

The environmental management system (EMS) is the primary system to manage and control the environmental aspects of the Project during early works, site establishment and construction. It also provides the overall framework for the system and procedures to ensure environmental impacts are minimised and legislative requirements are fulfilled.

The LSBJV EMS is based on the Lendlease Engineering ISO14001 Certified EMS, which was adapted to address Project requirements and joint venture requirements.

The CEMP is the primary system to manage and control the environmental aspects of the Project during construction. It also provides the overall framework for the system and procedures to ensure environmental impacts are minimised and legislative and other requirements are fulfilled.

The strategies defined in the CEMP have been developed with consideration of the Project approval requirement, safeguards and mitigation measures presented in the environmental assessment and approval documents. The CEMP establishes the system for implementation, monitoring and continuous improvement to minimise impacts from the Project on the environment.

The Project CTEAP was prepared and lodged with DPE for information on 1 August 2018 and details how compliance with CoAs and REMMs will be tracked during the Project. The CTEAP is separate to the CEMP, but is part of a suite of environmental management documents prepared for the Project. The CTEAP will be administered by the Environment and Sustainability Manager or delegate for the duration of the Project

#### 3.2 Assessment under CoA and REMM

The PCCR is prepared in accordance with A30 and A31 and is required to address the project requirements contained in the CoA and the REMMs provided in the SPIR. The M4-M5 Link Mainline Tunnels must demonstrate continuous compliance with all associated requirements.

Appendix A (	Conditions	of Appro	val – Com	pliance T	able
M4-M5 Link Main	line Tunnels Pre-C	onstruction Con	npliance Report		

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
A1	* the WestConnex M4-M5 Link Environmental Impact Statement – Volumes 1A-C and 2A-J (dated August 2017) (the EIS); and  * the WestConnex M4-M5 Link Submissions and Preferred Infrastructure Report (dated January 2018) (the SPIR).	Pre-Construction Construction Operation	LSBJV SMC RMS	Open	Noted the Project will be delivered in accordance with this requirement.
A2		Pre-Construction Construction Operation	LSBJV SMC RMS	Open	Noted the Project will be delivered in accordance with this requirement.
A3		Pre-Construction Construction Operation	LSBJV SMC RMS	Open	Noted the Project will be delivered in accordance with this requirement.
A4	(e) compliance with the terms of this approval (including anything required to be	Pre-Construction Construction Operation	LSBJV SMC RMS	Open	LSBJV, RMS and SMC will comply with all requirements of the Secretary listed in this condition. This condition will be implemented throughout construction of the project and project works.
<b>A</b> 5	approval, including in relation to a condition of this approval, the Secretary's interpretation is final.	Pre-Construction Construction Pre-Operation Operation	LSBJV SMC RMS	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing	RACHANCINIIIV	Compliance Status	Comments / Evidence
A6	(b) log of the points of engagement or attempted engagement with the identified party(s) and a summary of the issues raised by them;	Pre-Construction Construction Pre-Operation Operation	LSBJV	Closed	Consultation specified under the terms of this approval have been undertaken with the relevant stakeholders and government authorities and will continue through the Design and Construct of the Project. A 'Stakeholder Consultation and Comments Tracking Register' has been prepared to detail the consultation process and how stakeholder comments were addressed in accordance with CoA A6 relative to each document.
A7	Where the terms of approval provide for Secretarial discretion (for example in relation to the timing of an action), the Proponent must provide supporting evidence so that the Secretary can consider the need, environmental impacts and consistency of any request.	Pre-Construction Construction Pre-Operation Operation	LSBJV SMC RMS	Not Yet Triggered	
A8	Where a condition of this approval requires the Proponent to submit a document or notification to the Secretary or obtain an approval from the	· -	LSBJV	Not Yet Triggered	
А9	recommendations, protocols and the like required by the terms of this approval must be implemented by the Proponent in accordance with all requirements	Pre-Construction Construction Pre-Operation Operation	LSBJV SMC RMS	Open	Noted the Project will be delivered in accordance with this requirement.
A10	date.	Commence works covered by approval	LSBJV	Not Yet Triggered	It expected that the Project will commence works in 2018.
A11	resulting from the actions of all persons that it invites onto any site, including	Pre-Construction Construction Operation	LSBJV	Open	Noted.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
A12	The CSSI may be constructed and operated in stages. Where staged construction or operation is proposed, a Staging Report (for either or both construction and operation as the case requires) must be prepared and submitted to the Secretary for information. The Staging Report must be submitted to the Secretary no later than one (1) month prior to the commencement of construction of the first of the proposed stages of construction (or if only staged operation is proposed, one (1) month prior to the commencement of operation of the first of the proposed stages of operation).	Pre-Construction	SMC/RMS	Closed	The Staging Report (Rev 00, 12/09/2018) was submitted to the Secretary for information on 14 September 2018.
A13	The Staging Report must:  (a) if staged construction is proposed, set out how the construction of the whole of the CSSI will be staged, including details of work and other activities to be carried out in each stage and the general timing of when construction of each stage will commence and finish;  (b) if staged operation is proposed, set out how the operation of the whole of the CSSI will be staged, including general details of work and other activities to be carried out in each stage and the general timing of when operation of each stage will commence and finish (if relevant);  (c) specify the relevant conditions of approval that apply to each stage and how compliance with those conditions will be achieved across and between each of the stages of the CSSI; and  (d) set out mechanisms for managing any cumulative impacts arising from the proposed staging.	Pre-Construction	SMC/RMS	Closed	The Staging Report (Rev 00, 12/09/2018) has been prepared to satisfy this condition.
A14	The CSSI must be staged in accordance with the Staging Report, as submitted to the Secretary	Pre-Construction Pre-Operation	LSBJV SMC RMS	Open	Noted, the Project will be staged in accordance with the Staging Report.
A15		Pre-Construction Pre-Operation	LSBJV SMC RMS	Open	Noted, the terms of the approval relevant to Stage 1 will be complied with at the relevant time for Stage 1.
A16		Pre-Construction Pre-Operation	LSBJV SMC RMS	Not Yet Triggered	
A17	Works must not commence until an Environmental Representative (ER) has been approved by the Secretary and engaged by the Proponent.	Pre-Construction	LSBJV SMC RMS	Closed	RMS nominated the Principal Environmental Representative (ER) for the Project, and have provided the relevant information regarding the ER to DPE for consideration and approval. DPE approved the appointment of the ER, Mr Cameron Weller of Hutchison Weller Pty Ltd as Environmental Representative (ER) on the 21st June 2018.
A18	The Secretary's approval of an ER must be sought no later than one (1) month prior to the commencement of works.	Pre-Construction	LSBJV	Closed	The ER was approved by DPE more than one month prior to the commencement of works.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
A19	The proposed ER must be a suitably qualified and experienced person who was not involved in the preparation of the EIS or SPIR, and is independent from the design and construction personnel for the CSSI.	Pre-Construction	LSBJV	Closed	The ER engaged for the Project is a suitably qualified and experienced person that was independent from preparation of the M4-M5 Link project EIS, SPIR and is independent from the LSBJV design and construction team.
A20	The Proponent may engage more than one ER for the CSSI, in which case the functions to be exercised by an ER under the terms of this approval may be carried out by any ER that is approved by the Secretary for the purposes of the CSSI.	Pre-Construction Construction	LSBJV	Closed	An alternate ER has been engaged and approved for the CSSI and will be utilised as appropriate. DPE approved the appointment of a second ER, Mr Peter Morrall of Hutchison Weller Pty Ltd as an Environmental Representative (ER) on the 9th of July 2018. Mr Peter Morrall will perform the functions to be exercised by an ER under the terms of this approval as appropriate for the purposes of the CSSI.
A21	For the duration of the works until the completion of construction, the approved ER must:  (a) receive and respond to communication from the Secretary in relation to the environmental performance of the CSSI;  (b) consider and inform the Secretary on matters specified in the terms of this approval;  (c) consider and recommend to the Proponent any improvements that may be made to work practices to avoid or minimise adverse impact to the environment and to the community;  (d) review documents identified in Conditions C1, C4 and C9 and any other documents that are identified by the Secretary, to ensure they are consistent with requirements in or under this approval and if so:  (i) make a written statement to this effect before submission of such documents to the Secretary (if those documents are required to be approved by the Secretary), or  (ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Secretary / Department for information or are not required to be submitted to the Secretary / Department for information or are not required to be submitted to the Secretary / Department for information is being carried out in accordance with the document and the terms of this approval;  (f) as may be requested by the Secretary, help plan, attend or undertake audits of the development commissioned by the Department including scoping audits, programming audits, briefings and site visits, but not independent environmental audits required under Condition A36 of this approval;  (g) as may be requested by the Secretary, assist the Department in the resolution of community complaints;		LSBJV SMC	Open	The ER(s) will perform the duties specified in this condition for the duration of the Project works until the completion of construction.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
A22		Pre-Construction Construction	Environment and Sustainability Manager	Open	LSBJV and SMC have provided, and will continue to provide, the relevant documentation and information to the ER.
A23	The Secretary may at any time commission an audit of an ER's exercise of its functions under Condition A21. The Proponent must:  (a) facilitate and assist the Secretary in any such audit; and  (b) make it a term of their engagement of an ER, that the ER facilitate and assist the Secretary in any such audit.	Pre-Construction Construction	Environment and Sustainability Manager	Not Yet Triggered	
A24	A suitably qualified and experienced Acoustics Advisor (AA), who is independent of the design and construction personnel, must be nominated by the Proponent and engaged for the duration of works and for no less than six (6) months following completion of construction of the CSSI.  The details of the nominated AA must be submitted to the Secretary for approval no later than one (1) month before commencement of works.  The Proponent must cooperate with the AA by:  (a) providing access to noise and vibration monitoring activities as they take place; (b) providing for review of noise and vibration plans, assessments, monitoring reports, data and analyses undertaken; and (c) considering any recommendations to improve practices and demonstrating	I .	SMC LSBJV to provide candidates	Closed	LSBJV and SMC nominated the Acoustics Advisor (AA) for the Project, and have provided the relevant information regarding the AA to DPE for consideration and approval. DPE approved the appointment of the AA, Mr John Hutchison of Hutchison Weller Pty Ltd as Acoustics Advisor (AA) more than one month prior to the commencement of works on the 20th June 2018.
A25	Any activities generating noise in excess of the 'Noise affected' Noise  Management Levels derived from the Interim Construction Noise Guideline	Pre-Construction	LSBJV	Closed	The AA was approved by DPE, prior to activities generating noise in excess of the 'Noise affected' Noise Management Levels derived from the Interim Construction Noise Guideline.

СоА	Final Conditions of Approval	Timing	RASOONSIDIIIV	Compliance Status	Comments / Evidence
A26	The approved AA must:  (a) receive and respond to communication from the Secretary in relation to the performance of the CSSI in relation to noise and vibration; (b) consider and inform the Secretary on matters specified in the terms of this approval relating to noise and vibration; (c) consider and recommend, to the Proponent, improvements that may be made to avoid or minimise adverse noise and vibration impacts; (d) review all noise and vibration documents required to be prepared under the terms of this approval and, should they be consistent with the terms of this approval, endorse them before submission to the Secretary (if required to be submitted to the Secretary) or before implementation (if not required to be submitted to the Secretary); (e) regularly monitor the implementation of all noise and vibration documents required to be prepared under the terms of this approval to ensure implementation is in accordance with what is stated in the document and the terms of this approval; (f) notify the Secretary of noise and vibration incidents in accordance with Condition A40 of this approval; (g) in conjunction with the ER, the AA must:  (i) as may be requested by the Secretary or Community Complaints Mediator (required by Condition B13), help plan, attend or undertake audits of noise and vibration management of the CSSI including briefings, and site visits,  (ii) in the event that conflict arises between the Proponent and the community in relation to the noise and vibration performance of the CSSI, follow the procedure in the Communication Strategy approved under Condition B2 to attempt to resolve the conflict, and if it cannot be resolved, notify the Secretary,  (iii) consider relevant minor amendments made to the CEMP, relevant sub-	Pre-Construction	LSBJV	Open	Noted. The AA will perform the duties specified in this condition for the duration of the Project works until the completion of construction
A27	A Compliance Tracking Program to monitor compliance with the terms of this approval must be prepared, taking into consideration any staging of the CSSI that is proposed in a Staging Report submitted in accordance with Conditions A12 and A13 of this approval.	Pre-Construction	LSBJV SMC, RMS to provide input	Closed	A Compliance Tracking and Environmental Auditing Program (CTEAP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0010) has been prepared to satisfy this condition, taking into account the staging of the CSSI, and was provided to the Secretary for information prior to the commencement of construction.
A28	The Compliance Tracking Program must be endorsed by the ER and then submitted to the Secretary for information at least one (1) month prior to the commencement of works.	Pre-Construction	LSBJV	Closed	The CTEAP (M4M5-LSBJ-PRW-EN-MP01-PLN-0010) was provided to and endorsed by the ER and then submitted to the Secretary more than one month prior to the commencement of works.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
A29	The Compliance Tracking Program in the form required under Condition A28 of this approval must be implemented for the duration of works and for a minimum of one (1) year following commencement of operation, or for a longer period as determined by the Secretary based on the outcomes of independent environmental audits, Environmental Representative Monthly Reports and regular compliance reviews submitted through Compliance Reports. If staged operation is proposed, or operation is commenced of part of the CSSI, the Compliance Tracking Program must be implemented for the relevant period for each stage or part of the CSSI.	Pre-Construction	LSBJV SMC and RMS to provide input	Closed	The CTEAP (M4M5-LSBJ-PRW-EN-MP01-PLN-0010) will be implemented for the duration of works associated with Stage 1 as defined in the Staging Report, and for a minimum of one year following commencement of operation, unless otherwise specified by the Secretary.
A30	A Pre-Construction Compliance Report must be prepared and submitted to the Secretary for information no later than one (1) month prior to the commencement of construction (or each stage of construction identified in the Staging Report).	Pre-Construction	LSBJV SMC and RMS to provide input	Open	This Report. This PCCR has been prepared by the LSBJV with input from SMC and RMS where relevant in order to satisfy this condition and was submitted to the Secretary for information.
A31	The Pre-Construction Compliance Report must include:  (a) details of how the terms of this approval that must be addressed before the	Pre-Construction	LSBJV SMC and RMS to provide input	Open	This Report. Pre-construction compliance details are contained in the Pre-Construction Compliance Report (PCCR) – Stage 1 submitted to DPE.
A32	Construction must not commence until the Pre-Construction Compliance Report has been submitted to the Secretary.	Pre-Construction	LSBJV	Open	Noted. This Pre-Construction Compliance Report was submitted to the Secretary prior to construction.
A33	Construction Compliance Reports must be prepared and submitted to the Secretary for information every six (6) months from the date of the commencement of construction for the duration of construction. The Construction Compliance Reports must include:  (a) a results summary and analysis of environmental monitoring;  (b) the number of any complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies for reducing the recurrence of such complaints;  (c) details of any review of, and minor amendments made to, the CEMP as a result of construction carried out during the reporting period;  (d) a register of any consistency assessments undertaken and their status;  (e) results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit;  (f) a summary of all incidents notified in accordance with Conditions A40 and A42 of this approval; and  (g) any other matter relating to compliance with the terms of this approval or as requested by the Secretary.	Construction	LSBJV SMC and RMS to provide input	Not Yet Triggered	
A34	A Pre-Operation Compliance Report must be prepared and submitted to the Secretary for information no later than one (1) month prior to the commencement of operation. The Pre-Operation Compliance Report must	Pre-Operation	LSBJV SMC and RMS to provide input	Not Yet Triggered	
A35	Operation must not commence until the Pre-Operation Compliance Report has been submitted for information to the Secretary.	Pre-Operation	SMC	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
A36	An Environmental Audit Program for annual independent environmental auditing against the terms of this approval must be prepared in accordance with AS/NZS ISO 19011:2014 - Guidelines for Auditing Management Systems and submitted to the Secretary for information no later than one (1) month prior to the commencement of construction	Pre-Construction	LSBJV SMC to review	Closed	An Environmental Audit Program in accordance with this condition was prepared by LSBJV in accordance with AS/NZS ISO 19011:2014 - Guidelines for Auditing Management Systems. This Program forms a component of the CTEAP (M4M5-LSBJ-PRW-EN-MP01-PLN-0010) and was submitted to the Secretary for information more than one month prior to the commencement of construction.
A37	The Environmental Audit Program, as submitted to the Secretary, must be implemented and complied with for the duration of construction and operation.	Construction	LSBJV SMC to provide input SMC after opening	Open	Noted. The Environmental Audit Program, submitted to the Secretary as a component of the CTEAP (M4M5-LSBJ-PRW-EN-MP01-PLN-0010) will be implemented and complied with for the duration of construction and operation as stated in the CTEAP.
A38	All independent environmental audits of the CSSI must be conducted by a suitably qualified, experienced and independent team of experts in auditing and be documented in an Environmental Audit Report which:  (a) assesses the environmental performance of the CSSI, and its effects on the surrounding environment;  (b) assesses whether the project is complying with the terms of this approval; and  (c) recommends measures or actions to improve the environmental	Construction	LSBJV SMC	Not Yet Triggered	
A39	The Proponent must submit a copy of the Environmental Audit Report to the Secretary for information, with a response to any recommendations contained in the audit report within six (6) weeks of completing the audit.	Construction	LSBJV	Not Yet Triggered	
A40	The Secretary must be notified as soon as possible and in any event within 24	Construction	LSBJV SMC	Not Yet Triggered	
A41	Notification of an incident under Condition A40 of this approval must include the time and date of the incident, details of the incident and must identify any consequent non-compliance with this approval.	Construction	LSBJV	Not Yet Triggered	
A42	All written requirements of the Secretary or relevant public authority, which may be given at any point in time, to address the cause or impact of an incident must be complied with, within any timeframe specified by the Secretary or relevant public authority.	Construction	LSBJV	Not Yet Triggered	
A43	If statutory notification is given to the EPA as required under the POEO Act in relation to the CSSI, such notification must also be provided to the Secretary within 24 hours after the notification was given to the EPA.	Construction	LSBJV	Not Yet Triggered	
A44	All construction spoil haulage vehicles must be clearly marked as being for WestConnex M4-M5 Link (including CSSI application number) in such a manner to enable immediate identification within at least 50 metres of the vehicles.	Construction	LSBJV	Open	All construction spoil haulage vehicles will be marked as originating from the WestConnex M4-M5 Link project in accordance with this condition.
A45	Signage on hoardings surrounding construction ancillary facilities must include the CSSI name and application number.	Construction	LSBJV	Open	Signage on hoardings surrounding construction ancillary facilities will include the CSSI name and application number in accordance with this condition.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
B1	government authorities, adjoining affected landowners and businesses, and others directly impacted by the CSSI).	Pre-Construction Construction Operation	LSBJV SMC to provide input	Open	LSBJV has prepared a Community Communications Strategy (CCS) (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004) and will be implemented to assist in complying with this condition.
B2	<ul> <li>(f) provide for the formation of issue or location-based community forums that focus on key environmental management issues of concern to the relevant community(s) for the CSSI;</li> <li>(g) set out procedures and mechanisms for consulting with relevant council(s) and government authorities/agencies, as required under the terms of this approval, including procedures for repeated requests and nil responses;</li> <li>(h) detail the roles and responsibilities of the Public Liaison Officer(s) engaged under Condition B6;</li> <li>(i) set out procedures and mechanisms:</li> <li>(i) through which the community can discuss or provide feedback to the Proponent,</li> <li>(ii) through which the Proponent will respond to enquiries or feedback from the community, and</li> <li>(iii) to resolve any issues and mediate any disputes that may arise in relation to</li> </ul>	Pre-Construction Construction	LSBJV SMC to provide input	Open	LSBJV has prepared a CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004) consistent with the requirements of this condition and has been lodged to DPE for approval.
В3	no later than one (1) month prior to the commencement of any work.	Pre-Construction Construction	LSBJV SMC to provide input	Open	LSBJV has prepared a CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004) consistent with the requirements of this condition and has been lodged to DPE for approval.
В4	Work for the purposes of the CSSI must not commence until the Communication Strategy has been approved by the Secretary.	Pre-Construction Construction	LSBJV	Open	Noted. Works will not commence prior to the approval of the CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004) by DPE.
B5	Icompletion of construction	Pre-Construction Construction	LSBJV  SMC to provide input SMC to implement after date of opening	Open	Noted. The approved CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004) prepared for the Project will be implemented for the duration of the works and for 12 months following the completion of construction.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
В6	, ,	Pre-Construction Construction	LSBJV	Open	LSBJV have appointed Public Liaison Officer(s) within the Project Communications team to assist in complying with this condition for construction ancillary facility(s) and for utility works to assist the public with questions and complaints they may have at any time during construction. Refer to Section 6.3 of the CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004).
В7	Prior to the commencement of works, the Proponent must maintain and operate a toll-free WestConnex Acquisition Assistance Line for a period of up to six (6) months following completion of the final acquisition required for the CSSI, unless otherwise agreed by the Secretary. The WestConnex Acquisition Assistance Line must provide an ongoing dispute resolution, counselling program and contact information to relevant services for all relocated persons. The WestConnex Acquisition Assistance Line must also provide first language support for relocated persons with English as a second language. The management of the assistance line is to be outlined within the Communication Strategy as required by Condition B1 and is to be maintained and operated separately from the standard complaints and enquiries procedure.	Pre-Construction Construction	RMS	Closed	WestConnex project toll-free number (1800 660 248) is being used for the M4-M5 Link Mainline Tunnels project and communicated on project correspondence.
B8	A Complaints Management System must be prepared prior to the commencement of any works in respect of the CSSI and be implemented and maintained for the duration of construction and for a minimum for 12 months following completion of construction of the CSSI.	Pre-Construction Construction	SMC LSBJV to provide input	Closed	SMC and LSBJV has prepared a Complaints Management System prior to the commencement of any works for the Project. Refer to Section 8 of the CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004). The Complaints Management System will be implemented and maintained for the duration of construction and for 12 months following completion of construction of the Project to assist in complying with this condition.
В9	(a) number of complaints received; (b) number of people affected in relation to a complaint; and (c) nature of the complaint and means by which the complaint was addressed	Pre-Construction Construction	LSBJV SMC to provide input	Closed	SMC and LSBJV has prepared a Complaints Register as a component of the Complaints Managements System. Refer to Section 8 of the CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004).
B10	The Complaints Register must be provided to the Secretary upon request, within the timeframe stated in the request.	Pre-Construction Construction	LSBJV SMC to forward to secretary	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
B11	(b) a postal address to which written complaints and enquires may be sent;	Pre-Construction Construction Operation	RMS	Closed	The details of the toll-free number, postal address and project email address are detailed in the CCS. Section 8.6 of the CCS details the mediation system for the project. Toll-free number - 1800 660 248 Postal address - PO Box 63 Mascot NSW 1460 WestConnex email address is info@westconnex.com.au
B12	· · · · · · · · · · · · · · · · · · ·	Pre-Construction Construction	LSBJV SMC to provide website, newspaper publication	Open	LSBJV and SMC have established a telephone number, postal address and email address prepared under CoA B11 for the Project, and were published in a local newspaper (the Inner West Courier as of 2 October 2018), on site hoarding at each construction site and on the website in accordance with CoA B17 prior to the commencement of works / during the preconstruction phase.  The information is available on the project website, being: www.westconnex.com.au https://westconnex.com.au/projects/M4-M5LinkTunnels
B13	, , , , , , , , , , , , , , , , , , , ,	Pre-Construction Construction	RMS	Closed	Mr Stephen Lancken from Negocio Resolutions was approved by DPE as the CCM on 20 June 2018
B14	I Community Complaints Mediator to review the Proponent's response. The	Pre-Construction Construction	RMS	Closed	The role of the CCM is detailed in Section 8.6 of the CCS.
B15	The Community Complaints Mediator will:  (a) review the Proponent's unresolved disputes between the project and members of the public if the procedures and mechanisms under Condition  B2(i)(iii) do not satisfactorily address complaints; and	Pre-Construction Construction	RMS	Closed	The role of the CCM is detailed in Section 8.6 of the CCS.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
B16	The Community Complaints Mediator will not act before the Proponent has provided an initial response to a complaint and will not consider issues such as property acquisition where other dispute processes are provided for in this approval, or clear government policy and resolution processes are available, or matters which are not within the scope of the CSSI.	Pre-Construction Construction	RMS	Closed	The role of the CCM is detailed in Section 8.6 of the CCS.
B17	A website providing information in relation to the CSSI must be established before commencement of works and maintained for the duration of works, and for a minimum of 24 months following the completion of construction of the CSSI. The following up-to-date information (excluding confidential, private and commercial information) must be published prior to works commencing and maintained on the website or dedicated pages:  (a) information on the current implementation status of the CSSI;  (b) a copy of the documents listed in Condition A1 of this approval, and any documentation relating to any modifications made to the CSSI or the terms of this approval:	Pre-construction Construction	SMC LSBJV to provide content	Open	Relevant documents associated with the approval will be uploaded on the project website (https://www.westconnex.com.au/) prior to the work / activity being undertaken.
C1	A Construction Environmental Management Plan (CEMP) must be prepared in accordance with the Department's Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004) to detail how the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1 will be implemented and achieved during all stages of construction.	Pre-Construction	LSBJV	Open	LSBJV have prepared a Construction Environmental Management Plan (CEMP) (M4M5-LSBJ-PRW-GEN-MP01-PLN-0003) for the Project, in accordance with the Department's Guideline for the Preparation of Environmental Management Plans (DIPNR 2004).

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
C2	The CEMP must provide: (a) a description of activities to be undertaken during construction (including the scheduling of construction); (b) details of environmental policies, guidelines and principles to be followed in the construction of the CSSI; (c) a schedule for compliance auditing; (d) a program for ongoing analysis of the key environmental risks arising from the activities described in subsection (a) of this condition, including an initial risk assessment undertaken before the commencement of construction of the CSSI; (e) details of how the activities described in subsection (a) of this condition will be carried out to: (i) meet the performance outcomes stated in the documents listed in Condition A1, and (ii) manage the risks identified in the risk analysis undertaken in subsection (d) of this condition; (f) an inspection program detailing the activities to be inspected and frequency of inspections; (g) a protocol for managing and reporting any: (i) incidents, and (ii) non-compliances with this approval and with statutory requirements; (h) procedures for rectifying any non-compliance with this approval identified during compliance auditing, incident management or at any time during construction; (i) a list of all the CEMP Sub-plans required in respect of construction, as set out in Condition C4. Where staged construction of the CSSI is proposed, the CEMP must also identify which CEMP Sub-plan applies to each of the proposed stages of construction; (j) a description of the roles and environmental responsibilities for relevant		LSBJV	Open	The CEMP (M4M5-LSBJ-PRW-GEN-MP01-PLN-0003) has been prepared in accordance with the requirements of this condition.
C3	The CEMP must be endorsed by the ER and then submitted to the Secretary for approval no later than one (1) month prior to the commencement of construction, or where construction is staged no later than one (1) month prior to the commencement of that stage.	Pre-Construction	LSBJV	Open	The CEMP (M4M5-LSBJ-PRW-GEN-MP01-PLN-0003) prepared for the Project was endorsed by the ER and has been lodged to DPE for approval.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
C4	The following CEMP Sub-plans must be prepared in consultation with the relevant authorities identified for each CEMP Sub-plan and be consistent with the CEMP referred to in the EIS.  (a) Traffic and Transport and access: Port Authority of NSW, Sydney Coordination Office and relevant council(s)  (b) Noise and vibration: EPA and relevant council(s)  (c) Flora and fauna: OEH and relevant council(s)  (d) Air quality: EPA and relevant council(s)  (e) Soil and surface water: DPI Water; OEH; EPA; Sydney Water; and relevant council(s)  (f) Groundwater: DPI Water  (g) Non-Aboriginal Heritage: Heritage Council of NSW; Heritage Division; and relevant council(s)  (h) Aboriginal Heritage: OEH  (i) Waste Management: N/A  *Port Authority of NSW to be consulted when considering impacts on port land.	Pre-Construction	LSBJV	Open	The following CEMP Sub-plans have been prepared for the Project in accordance with the consultation requirements of this condition. Implementation of this condition is evidenced in the following CEMP sections:  • Appendix B1 - Traffic and Transport and Access Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0001)  • Appendix B2 - Noise and Vibration Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0002)  • Appendix B3 - Flora and Fauna Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0003)  • Appendix B4 - Air Quality Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0004)  • Appendix B5 - Soil and Surface Water Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0005)  • Appendix B6 - Groundwater Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0006)  • Appendix B7 - Non-Aboriginal Heritage Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0007)  • Appendix B8 - Aboriginal Cultural Heritage Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0008)  • Appendix B9 - Waste Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0008)  • Appendix B9 - Waste Management Sub-plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0009)  Condition of Approval A6 Stakeholder Consultation and Comments Registers have been provided to DPE along with the lodgement of these Appendices to demonstrate required consultation has been undertaken.
C5	The CEMP Sub-plans must state how:  (a) the environmental performance outcomes identified in the EIS and SPIR as modified by these conditions will be achieved;  (b) the mitigation measures identified in the EIS and SPIR as modified by these conditions will be implemented;  (c) the relevant terms of this approval will be complied with; and  (d) issues requiring management during construction (including cumulative impacts), as identified through ongoing environmental risk analysis, will be managed.	Pre-Construction	LSBJV	Open	The CEMP Sub-plans were prepared in accordance with the requirements of this condition.
C6	The CEMP Sub-plans must be endorsed by the ER and then submitted to the	Pre-Construction	LSBJV	Open	The CEMP Sub-plans have all been submitted and endorsed by the ER and have been lodged to DPE for approval more than one month prior to the commencement of construction.
C7	Any of the CEMP Sub-plans may be submitted to the Secretary along with, or subsequent to, the submission of the CEMP.	Pre-Construction	LSBJV	Closed	CEMP Sub-plans were submitted individually.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
C8	Construction must not commence until the CEMP and all CEMP Sub-plans have been approved by the Secretary. The CEMP and CEMP Sub-plans, as approved by the Secretary, including any minor amendments approved by the ER, must be implemented for the duration of construction. Where the CSSI is being staged, construction of that stage is not to commence until the relevant CEMP and CEMP sub-plans have been endorsed by the ER and approved by the Secretary.	Pre-Construction	LSBJV	Open	Construction will not commence prior to DPE approval of the CEMP and related Sub-plans.
C9	The following Construction Monitoring Programs must be prepared in consultation with the relevant authorities identified for each Construction Monitoring Program to compare actual performance of construction of the CSSI against predicted performance.  (a) Surface Water Monitoring Program: DPI Water, Sydney Water and relevant council(s)  (b) Groundwater Monitoring Program: DPI Water, Sydney Water and relevant council(s)  (c) Noise and Vibration Monitoring Program: Relevant council(s), NSW Health  (d) Blast Monitoring Program: EPA	Pre-Construction	LSBJV	Open	The following Construction Monitoring Programs have been prepared for the Project in accordance with the consultation requirements of this condition. Implementation of this condition is evidenced in the following CEMP (M4M5-LSBJ-PRW-GEN-MP01-PLN-0003) sections:  a) Appendix B5 – Appendix – Surface Water Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0013) b) Appendix B6 – Appendix – Groundwater Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0014) c) Appendix B2 – Appendix - Noise and Vibration Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0011) d) Blasting is not proposed to be undertaken. Should blasting be required, a Blast Monitoring Program will be developed in consultation with the EPA.  Condition of Approval A6 Stakeholder Consultation and Comments Registers have been provided to DPE along with the lodgement of these Appendices to demonstrate required consultation has been undertaken.
C10	Each Construction Monitoring Program must provide:  (a) details of baseline data available;  (b) details of baseline data to be obtained and when;  (c) details of all monitoring of the project to be undertaken;  (d) the parameters of the project to be monitored;  (e) the frequency of monitoring to be undertaken;  (f) the location of monitoring;  (g) the reporting of monitoring and analysis results against relevant criteria;  (h) details of the methods that will be used to analyse the monitoring data;  (i) procedures to identify and implement additional mitigation measures where results of monitoring are unsatisfactory; and  (j) any consultation to be undertaken in relation to the monitoring programs.	Pre-Construction	LSBJV	Open	The Construction Monitoring Programs have been prepared in accordance with this condition.  • Blasting is not currently proposed to be undertaken. Should blasting be required, a Blast Monitoring Program will be developed in consultation with the EPA.  The monitoring programs will be implemented to ensure compliance with the CoA.
C11		Pre-Construction Construction	LSBJV	Open	The Construction Noise and Vibration Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0011) prepared for the project has the required provision of real time noise and vibration monitoring data and will be readily available to the construction team, proponent, ER, AA, EPA and DPE in accordance with this condition.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
C12	The Groundwater Monitoring Program must include:  (a) daily measurement of the amount of water discharged from the water treatment plants;  (b) water quality testing of the water discharged from the water treatment plants;  (c) monitoring of groundwater pore pressures in the Hawkesbury Sandstone aquifers adjacent to the tunnel alignment, in consultation with DPI Water;  (d) monitoring of groundwater electrical conductivity in key locations between saline water bodies and the tunnel as identified by the project groundwater model including:  (i) in the Haberfield / Lilyfield area to the south of Iron Cove,  (ii) in the Rozelle area to the north of Rozelle Bay,  (iv) in the Rozelle area to the south east of Iron Cove, and  (v) in the St Peters area to the north west of Alexandra Canal, with a minimum of two (2) groundwater monitoring wells to be provided in each key location in consultation with DPI Water;  (e) measures to record or otherwise estimate and report groundwater inflows into the tunnels during their construction;  (f) a method for providing the data collected in (a) and (b) to Sydney Water every three (3) months to demonstrate the project's compliance with the discharge criteria and, if applicable, the Proponent's trade waste licence; and  (g) a method for providing the groundwater monitoring data to DPI Water every three (3) months during construction.	Construction	LSBJV		The Groundwater Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0014) has been prepared in accordance with this condition as detailed below and is located in the Groundwater Management Sub-plan (Appendix A) (M4M5-LSBJ-PRW-EN-MP01-PLN-0006).
C13	The Construction Monitoring Programs must be developed in consultation with the relevant authorities as identified in Condition C9.	Pre-Construction	LSBJV	Open	All Construction Monitoring Programs have been developed in consultation with the relevant authorities:  • Surface Water Monitoring Program (DPI Water, Sydney Water and relevant councils) (M4M5-LSBJ-PRW-EN-MP01-PLN-0013)  • Groundwater Monitoring Program (DPI Water, Sydney Water and relevant councils) (M4M5-LSBJ-PRW-EN-MP01-PLN-0014)  • Construction Noise and Vibration Monitoring Program (Inner West and City of Sydney Council, NSW Health) (M4M5-LSBJ-PRW-EN-MP01-PLN-0011).  Condition of Approval A6 Stakeholder Consultation and Comments Registers have been provided to DPE along with the lodgement of these Appendices to demonstrate required consultation has been undertaken.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
C14	The Construction Monitoring Programs must be endorsed by the ER and then submitted to the Secretary for approval at least one (1) month prior to commencement of construction.	Pre-construction Construction	LSBJV	Open	The Construction Monitoring Programs have been endorsed by the ER prior to submission to the Secretary.  Blasting is not currently proposed to be undertaken. Should blasting may be required, a Blast Monitoring Program will be developed in consultation with the EPA. The monitoring programs will be endorsed by the ER and submitted to the Secretary for approval.
C15	necessary baseline data for the required monitoring programs has been collected, to which the CEMP relates.	Pre-Construction	LSBJV	Open	In accordance with this condition, construction will not commence until DPE has approved all of the required Construction Monitoring Programs and the baseline data for the required monitoring programs has been collected.
C16	The Construction Monitoring Programs, as approved by the Secretary, including any minor amendments approved by the ER, must be implemented for the duration of construction and for any longer period set out in the monitoring program or specified by the Secretary, whichever is the greater.	Pre-Construction	LSBJV	Open	The requirements of this condition will be implemented for the greatest length of time determined between the duration of construction, as specified in the monitoring program or as specified by the Secretary.
C17	The results of the Construction Monitoring Programs must be submitted to the Secretary, and relevant regulatory authorities, for information in the form of a Construction Monitoring Report at the frequency identified in the relevant Construction Monitoring Program.	Pre-Construction	LSBJV	Open	Construction Monitoring Program results will be submitted to the relevant stakeholders for information in Construction Monitoring Reports at the frequency specified in each Monitoring Program.
C18	Where a relevant CEMP Sub-plan exists, the relevant Construction Monitoring Program may be incorporated into that CEMP Sub-plan.	Pre-construction Construction	LSBJV	Open	All Construction Monitoring Programs have been incorporated into the relevant CEMP Sub-plans.
C19	Only one of the two ancillary facility options (A or B) presented in Chapter 6 of the EIS can be implemented at Haberfield, except if one site is used for parking and other works that do not exceed the 'Noise affected' Noise Management Levels as identified in the ICNG.	Pre-Construction	LSBJV	1	Neither Option A or Option B as presented in Chapter 6 of the EIS has not been implemented at Haberfield. A project modification is currently being assessed.
C20	Should Option B, as presented in Chapter 6 of the EIS, be progressed, a comparative analysis of environmental impacts of the use of the sites during construction of the project (excluding Site Establishment Works and erection of acoustic enclosures), must be undertaken. The comparative analysis must be undertaken for the following key environmental impacts: noise and vibration, traffic and transport, visual amenity and socioeconomic.	Pre-Construction	LSBJV	Not Yet Triggered	Will not ever be triggered
C21	In the event that Option B is progressed, for purposes other than for parking and works that do not exceed the 'Noise affected' Noise Management Levels as identified in the ICNG, the Proponent must submit a report outlining the findings of the comparative analysis required by Condition C20 to the Secretary for approval at least one (1) month prior to the establishment of the Option B construction ancillary facilities. The report must demonstrate how management and mitigation measures, consistent with those included in the documents referred to in Condition A1 and as required by the terms of approval, would be implemented to achieve, on balance, comparable environmental outcomes when compared to Option A.		LSBJV	Not Yet Triggered	Will not ever be triggered

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
C22	Before establishment of any construction ancillary facility as identified in the EIS and SPIR (and excluding minor construction ancillary facilities established under Condition C24), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities. The Site Establishment Management Plan must be prepared in consultation with the relevant council(s) and government authorities. The Plan must be submitted to the Secretary for approval one (1) month prior to establishment of any construction ancillary facilities. The Site Establishment Management Plan must detail the management of the construction ancillary facilities and include:  (a) a description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site); (b) figures illustrating the proposed operational site layout(s); (c) a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken prior to the commencement of site establishment works; (d) details of how the site establishment activities described in subsection (a) of this condition will be carried out to:  (i) meet the performance outcomes stated in the documents listed in the EIS and SPIR,  (ii) to address the traffic and pedestrian impact assessment required by Condition E51, and  (iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and  (e) a program for monitoring the performance outcomes, including a program	Pre-Construction	LSBJV	Open	LSBJV have prepared a combined Site Establishment Management Plan (SEMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0018) to meet the requirements of CoA C22 which outlines that an approved SEMP is required prior to the establishment of any construction ancillary facility. The Plan was conditionally approved 28 September 2018.
C23	The operation of a construction ancillary facility must not commence until the CEMP required by Condition C1, relevant CEMP Sub-plans required by Condition C4 and relevant Construction Monitoring Programs required by Condition C9 have been approved by the Secretary.	Pre-Construction	LSBJV	Open	The operation of construction ancillary facilities has not commenced prior to DPE approval of the CEMP (M4M5-LSBJ-PRW-GEN-MP01-PLN-0003) and all relevant sub-plans and procedures required by Condition C1, C4 and C9. This condition has been acknowledged in Section 1.4 and 5.2.1 of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
C24	Lunch sheds, office sheds, and portable toilet facilities, that are not identified as a construction ancillary facility in the EIS and SPIR can be established, where they satisfy the following criteria:  (a) have no greater environmental and amenity impacts than those that can be managed through the implementation of environmental measures detailed in the Site Establishment Management Plan required under Condition C22 of this approval; and  (b) are located within the project boundary; and  (c) have been assessed by the ER to have -  (i) minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts,  (ii) minimal environmental impact with respect to waste management and flooding, and  (iii) no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.	Pre-Construction	LSBJV	Not Yet Triggered	
C25	ŭ .	Pre-Construction Construction	LSBJV	Open	Boundary fencing will be erected around all construction ancillary facilities adjacent to sensitive receivers for the duration of site establishment and construction through the measures outlined in Sections 5.2.9 and Appendix A (65) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
C26	Boundary fencing required under Condition C25 of this approval must minimise visual, noise and air quality impacts on adjacent sensitive receivers.	Pre-Construction Construction	LSBJV	Open	Boundary fencing will be erected around all construction ancillary facilities adjacent to sensitive receivers. Receivers will be protected from visual, noise and air quality impacts through the measures outlined in Sections 5.2.9 and Appendix A (62) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
D1	An Operational Environmental Management Plan (OEMP) must be prepared in accordance with the Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004) to detail how the performance outcomes, commitments and mitigation measures made and identified in the EIS and SPIR will be implemented and achieved during operation. This condition (Condition D1) does not apply if Condition D2 of this approval applies.	Pre-operation Operation	LSBJV SMC	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
D2	·	Pre-operation Operation	LSBJV	Not Yet Triggered	
D3	·	Pre-operation Operation	LSBJV SMC	Not Yet Triggered	
D4	Each of the OEMP Sub-plans must include the information set out in Condition D2 (a), (b) and (c).	Pre-operation Operation	LSBJV SMC	Not Yet Triggered	
D5	,	Pre-operation Operation	LSBJV	Not Yet Triggered	
D6	ISLINMITTED TO THE SECRETARY FOR INFORMATION NO LATER THAN ONE (1) MONTH DRIOR THE	Pre-operation Operation	LSBJV	Not Yet Triggered	
D7	·	Pre-operation Operation	LSBJV	Not Yet Triggered	
D8		Pre-operation Operation	LSBJV	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
D9	If the reporting of monitoring and analysis results against relevant criteria.	Pre-operation Operation	LSBJV SMC	Not Yet Triggered	
D10	address wetland and mosquito management.	Operation	LSBJV SMC	Not Yet Triggered	
D11	The Operational Groundwater Monitoring Program must include:  (a) daily measurement of the amount of water discharged from all water treatment plants; (b) water quality testing results of the water discharged from all water treatment plants; (c) monitoring of groundwater pore pressures in the Hawkesbury Sandstone aquifers adjacent to the tunnel alignment, in consultation with DPI Water; (d) monitoring of groundwater electrical conductivity in key locations between saline water bodies and the tunnel as identified by the project groundwater model including:  (i) in the Haberfield / Lilyfield area to the south of Iron Cove, (ii) in the Rozelle area to the north of Rozelle Bay, (iv) in the Rozelle area to the south east of Iron Cove, and (v) in the St Peters area to the north west of Alexandra Canal, with a minimum of two (2) groundwater monitoring wells provided in each key location in consultation with DPI Water; (e) measures to record or otherwise estimate and report groundwater inflows into the tunnels; (f) a method for providing the data collected in (a) and (b) to Sydney Water every three (3) months to demonstrate the project's compliance with the discharge criteria and, if applicable, the Proponent's trade waste licence; and (g) a process for annually forwarding data on the monthly volume of groundwater discharged from each water treatment plant to DPI Water for a minimum period of five (5) years, consistent with Condition D12.	Operation	LSBJV SMC	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
D12	Groundwater monitoring must continue for a period of at least five (5) years following the completion of construction of the Rozelle Interchange (and commence once the mainline tunnels are operational). At least one (1) month prior to the end of the five (5) year monitoring period, the Proponent must undertake a review of future monitoring requirements in consultation with DPI Water. The review must determine if additional monitoring is required, and the time period for continued monitoring. The Proponent must notify the Secretary within two (2) weeks of the review as to the outcomes of the review and any requirements for future monitoring.	Operation	SMC	Not Yet Triggered	
D13	The Operational Monitoring Programs must be developed in consultation with relevant authorities as identified in Condition D8 of this approval.	Operation	LSBJV SMC	Not Yet Triggered	
D14	The Operational Monitoring Programs must be submitted to the Secretary for approval at least one (1) month prior to the commencement of operation.	Operation	LSBJV	Not Yet Triggered	
D15	Operation must not commence until the Secretary has approved all of the required Operational Monitoring Programs, and all relevant baseline data has been collected.	Operation	LSBJV	Not Yet Triggered	
D16	The Operational Monitoring Programs, as approved by the Secretary, must be implemented for the duration identified in the relevant Operational Monitoring Program or specified by the Secretary, whichever is the greater.	Operation	LSBJV	Not Yet Triggered	
D17	The results of the Operational Monitoring Programs must be submitted to the Secretary, and relevant regulatory authorities, for information in the form of an Operational Monitoring Report at the frequency identified in the relevant Operational Monitoring Program.	Operation	SMC	Not Yet Triggered	
D18	Where a relevant OEMP Sub-plan exists, the relevant Operational Monitoring Program may be incorporated into that OEMP Sub-plan.	Operation	LSBJV	Not Yet Triggered	
E1	In addition to the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1, all reasonably practicable measures must be implemented to minimise the emission of dust	Construction	LSBJV	Open	Noted in accordance with this condition all reasonably practicable measures must be implemented to minimise the emission of dust and other air pollutants during the construction and operation of the CSSI. This requirement has been addressed in the management and mitigates measures listed in Table 6-1 of the approved Air Quality Management Sub-plan (AQMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0004).

CoA	Final Conditions of Approval	Timing	RACHANCINIIIV	Compliance Status	Comments / Evidence
E2	Prior to finalising the detailed design of the CSSI and establishing the ambient air quality monitoring stations required under Condition E24, the Proponent must establish an Air Quality Community Consultative Committee (AQCCC) to provide advice prior to and during the operation of the CSSI. The AQCCC must:  (a) be comprised of -  (i) two representatives from the Proponent and tunnel operator,  (ii) one representative from each of the relevant councils, whose attendance is only required when considering matters relevant to their respective local government area,  (iii) three representatives from each local community adjacent to each ventilation facility whose attendance is only required when considering matters relevant to their respective local area, and whose appointment has been approved by an expression of interest process conducted by the Proponent in consultation with the Secretary, and  (iv) a Chair who is an independent from the design and construction of the CSSI put forward by the Proponent and approved by the Secretary;  (b) meet at least four (4) times a year, or as otherwise agreed by the Chair and the Secretary;  (c) review and provide advice on the location of the air quality monitoring stations required under Condition E24, operation environmental management plans and other operation stage documents, compliance tracking reporting, audit reports, or complaints as they relate to air quality; and  (d) provide advice on the dissemination of monitoring results and other information on air quality issues.  The AQCCC may comprise the same members of the AQCCC established under CSSI approvals for the WestConnex M4 East and New M5 projects (SSI 6307 and SSI 6788) in relation to the ventilation outlets located in Haberfield and St Peters.	Construction	SMC/RMS	Not Yet Triggered	
E3	The tunnel ventilation system must be designed and operated so that the average concentrations of CO and NO2, calculated along the length of the tunnel, do not exceed the concentration limit specified for that pollutant in Table 4.  REFER TO TEXT IN TABLE	Construction and Operation	LSBJV	Not Yet Triggered	
E4	The concentration of CO as measured at any single point in the tunnel must not exceed the concentration limit specified for that pollutant in Table 5 under all traffic scenarios.  REFER TO TEXT IN TABLE	Operation	LSB / SMC	Not Yet Triggered	
E5	The tunnel ventilation system must be designed and operated so that the visibility in the tunnel does not exceed the level specified in Table 6.  REFER TO TEXT IN TABLE	Construction and Operation	LSBJV	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E6	I(e) PM(1() = annual average of 25 µg/m3 (NFPM); and	Construction and Operation	LSB / SMC	Not Yet Triggered	
E7	Conditions E3, E4, E5, and E6 do not apply in an emergency, as defined in the OEMP required by Condition D1	Operation	LSBJV SMC	Not Yet Triggered	
E8	The Proponent must, as soon as reasonably practicable, notify the Secretary and the EPA of any discharge during an emergency.	Operation	LSBJV	Not Yet Triggered	
E9	The tunnel ventilation systems must be designed, constructed and operated so as to only release emissions from ventilation outlets and not from the portals or the tunnel support facilities as identified in the documents listed in Condition A1, except for emergency smoke management purposes in the event of a fire in a tunnel or periodic testing of the system as defined in the OEMP required by Condition D1.	Construction and Operation	LSBJV	Not Yet Triggered	
E10	All tunnels must be designed and constructed so as to allow for future modification of the ventilation system if required. The Proponent must submit a report to the Secretary demonstrating how this will be allowed for prior to finalising detailed design.	Construction and Operation	LSBJV	Not Yet Triggered	
E11	Appendices A, B and C.	Construction	LSBJV	Not Yet Triggered	
E12	The ventilation outlets must be constructed to tip heights within the following ranges:  REFER TO TEXT FOR TABLE	Construction	LSBJV	Not Yet Triggered	
E13	that the ventilation and traffic management systems would operate together to ensure conditions of this approval are met.	Pre-Operation	LSBJV	Not Yet Triggered	
E14	The Tunnel Ventilation, Traffic Incident Response and Traffic Management Systems Integration Protocol must include a commissioning procedure that is to be carried out before a tunnel (or any part of it) is opened to traffic.	Pre-Operation	LSBJV	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E15	of a tunnel (whether in full or in part).	Pre-Operation	LSBJV	Not Yet Triggered	
E16	The Tunnel Ventilation, Traffic Incident Response and Traffic Management Systems Integration Protocol, must be implemented for the duration of operation.	Pre-Operation	SMC	Not Yet Triggered	
E17	Prior to commencing operation, a person or organisation, who is independent from the design and construction of the CSSI, whose appointment has been approved by the Secretary, must review the in-tunnel ventilation and ventilation outlet design of the project and the Tunnel Ventilation, Traffic Incident Response and Traffic Management Systems Integration Protocol prepared in accordance with Condition E13 to verify that:  (a) the final design achieves the in-tunnel and ventilation outlet limits for all traffic conditions including congestion (as described by the regulatory worst-case scenario in Chapter 9 of the EIS); (b) the predicted impacts of the final design are no greater than predicted in the documents listed in Condition A1 for the equivalent operating conditions; and (c) the ventilation system has been optimised to achieve effective and responsive treatment of in-tunnel air quality and efficient energy consumption.  The operating scenarios used to model the final design should be the same as those used in the documents listed in Condition A1. Should the design review adopt a modelling program different to that used in the EIS, the EIS predictions shall be re-modelled using the model adopted for the design review, to establish the predicted outcomes under part (b).  The information required in this condition must be made available to the Secretary on request.	Pre-Operation	LSBJV	Not Yet Triggered	
E18	Prior to operation, permanent signage must be installed at each surface tunnel entrance and variable messaging signage provided at regular intervals throughout the tunnel to instruct tunnel users to close windows and turn on recirculated air.  Relevant information about this instruction is to be provided on a website, operated by the Proponent, which is maintained throughout operation of the CSSI.	Pre-Operation	LSBJV SMC to operate website and provide information	Not Yet Triggered	
E19	Prior to operation, the Proponent must investigate, in consultation with the EPA, the measures for smoky vehicle enforcement in the tunnels. The effectiveness	Pre-Operation	RMS	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E20	The Proponent must continuously monitor (by sampling and obtaining results from analysis) the pollutants within the tunnel specified in Table 7, using the methods approved by the Secretary. Monitoring must commence on the first day of operation of the CSSI and continue throughout the operation of the CSSI. REFER TO TEXT IN TABLE	Operation	SMC	Not Yet Triggered	
E21	Imethodology developed in consultation with the EPA and approved by the	Construction Pre-Operation	LSBJV	Not Yet Triggered	
E22	lundertaken by an independent person(s) or organisation(s) whose appointment	Construction Pre-Operation	LSBJV	Not Yet Triggered	
E23	Air quality monitoring data is to be made available in as close to real time as possible, under the website reporting requirements of Condition E28.	Operation	SMC	Not Yet Triggered	
E24	The Proponent must monitor (by sampling and obtaining results by analysis) the pollutants and parameters specified in Table 8 using the sampling method, units of measure, and sampling frequency specified in the table. Monitoring must be undertaken at the following locations as a minimum:  (a) two ground level receptors near the Rozelle ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet; (b) two ground level receptors near the Victoria Road ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet:	Operation	LSBJV	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing		Compliance Status	Comments / Evidence
E25	The monitoring locations must be selected with the objective of achieving like-to like comparison of monitoring results with available pre-construction data. The locations must also allow for the review of the accuracy of predicted environmental outcomes discussed in the documents referred to in Condition A1 against monitored air quality as part of the environmental audit required under Condition A36.  The location of the monitoring stations must be agreed to by the AQCCC and subject to landowner's and occupier's agreement.  The establishment and operation of the monitoring stations is to be undertaken in accordance with recognised Australian standards and undertaken by an organisation accredited by NATA for this purpose and approved by the Secretary in consultation with the EPA and the AQCCC. The quality of the monitoring results must be assured through a NATA accredited process prior to the data being considered as a basis for compliance/auditing purposes.	Pre-Operation	LSBJV	Not Yet Triggered	
E26	The Proponent must commence monitoring for at least 12 continuous months prior to operation and continue monitoring for at least two (2) years following the commencement of operation. At the conclusion of the two (2) year operational monitoring period, the Proponent must review the need for the continued use of ambient monitoring stations in consultation with the AQCCC and EPA. Closure or discontinued use of an ambient monitoring station will require the approval of the Secretary.	Pre-Operation and Construction	LSBJV	Not Yet Triggered	
E27	The Proponent must develop and implement a reporting system for in-tunnel and ambient limits. The reporting system must be approved by the Secretary and fully implemented and operational prior to operation. Minimum analytical reporting requirements for air pollution monitoring stations must be as specified in the Approved Methods of Modelling and Assessment of Air Pollutants in NSW (EPA, 2007, or as updated).	Pre-Operation	LSBJV	Not Yet Triggered	
E28	Results of hourly updated real-time monitoring and relevant meteorological data must be provided on a website in an easy to interpret format. This data must be preliminary until a quality assurance check has been undertaken by a person or organisation, who is accredited by NATA for this purpose.	Operation	SMC	Not Yet Triggered	
E29	The availability of monitoring data must be conveyed to the local community by way of newsletter (including translation into common community languages in the area) and newspaper advertisement at least one month prior to the commencement of operation.	Operation	SMC	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing		Compliance Status	Comments / Evidence
E30	In addition to the general reporting requirements specified in Condition E27, the Proponent must notify the Secretary, EPA and Ministry of Health of any recordings above the limits specified in Conditions E3, E4 and E5 as early as possible and within 24 hours of the recorded event.  This notification must provide details of the circumstances of the event, including:  (a) the nature and location of the event, including details relating to the cause; (b) the timing and duration of the event; (c) the extent and severity of the event; (d) the measures employed to minimise the concentration levels, and measures to improve visibility levels in the event that visibility levels were above the specified limit; (e) the frequency of the event, including whether an event with the same or similar circumstances has occurred previously; and (f) the date when the Proponent will submit a Tunnel Air Quality Management Systems Effectiveness Report in accordance with Condition E31.	Operation	SMC	Not Yet Triggered	
E31	Within 20 working days of a request by the Secretary, the Proponent must prepare and submit to the Secretary for information a Tunnel Air Quality Management Systems Effectiveness Report on the overall system performance and cause and major contributor of any exceedances, including:  (a) the overall performance and concentration levels in the tunnel for the preceding six (6) month period (or since commencement of operation, where the CSSI has operated for under six (6) months), including average and maximum levels and time periods; (b) details of any instances throughout the operation of the CSSI where pollutant concentration levels in the tunnel have exceeded the limits specified in Conditions E3, E4 and E5; and (c) consideration of improvements to the tunnel air quality management system.  The Tunnel Air Quality Management Systems Effectiveness Report is to be prepared by the Proponent and reviewed by a suitably qualified and experienced independent specialist(s) whose appointment has been approved by the Secretary.  The Proponent must comply with any requirements arising from the Secretary's review of the Tunnel Air Quality Management Systems Effectiveness Report.	Operation	SMC	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing		Compliance Status	Comments / Evidence
E32	The Proponent must prepare an Ambient Air Quality Goal Protocol for evaluating a potential measurement that exceeds the goals in Condition E6. The Ambient Air Quality Goal Protocol must be developed by the Proponent in consultation with the AQCCC and submitted to the Secretary for approval at least 12 months prior to the commencement of operation of the CSSI.  The Ambient Air Quality Goal Protocol must include:  (a) a process for notification of a recording above the ambient air quality goals in Condition E6, subject to Condition E33; (b) the template that would be used for the Report on Above-Goal Recording, required by Condition E34; and (c) a process for appointing an independent person/organisation to prepare the Report on Above-Goal Recording. The process must include  (i) approval of the independent person (independent of the environmental assessment, design and construction of the CSSI) by the Secretary prior to preparation of the report, and  (ii) the appointment of the independent person/organisation at least one (1) month prior to the commencement of operation, or at some other time prior to preparation of the report with the agreement of the Secretary.	Pre-Operation	SMC	Not Yet Triggered	
E33	In addition to the general reporting requirements specified in Condition E27, the Proponent must notify the Secretary, EPA and Ministry of Health of any recordings above the goals in Condition E6 as soon as possible and within 24 hours of the recording.  This notification must provide details of the circumstances of the event, including:  (a) the nature of the event;  (b) the concentration levels that occurred;  (c) the timing and duration of the event;  (d) the measures employed to minimise the concentration levels; and  (e) the date when the Proponent will submit a Report on Above-Goal Recording in accordance with Condition E34.	Operation	SMC	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E34	Within 20 working days of any Notification of Above-Goal Recording, the Proponent must prepare and submit to the Secretary for information a Report on Above-Goal Recording that details the cause and major contributor of the exceedance, the effectiveness of any action(s) taken in response to the exceedance and the options available to prevent recurrence.  Where the operation of the tunnel is identified to be a significant contributor to the recorded above-goal reading, the Report on Above-Goal Recording must include consideration of improvements to the tunnel air quality management system so as to achieve compliance with the ambient air quality goals, including but not limited to installation of the additional ventilation management facilities allowed for under Condition E10.		SMC	Not Yet Triggered	
E35	The provision, operation and maintenance (including all auditing and validation of data) of all air quality monitoring and reporting must be funded by the Proponent.	Operation	LSBJV SMC	Not Yet Triggered	
E36	All continuous emissions monitoring systems installed and operated as a requirement of Condition E21 must undergo relative accuracy test audits at an interval not exceeding 12 months, or within another timeframe agreed with the Secretary.	Operation	LSBJV SMC	Not Yet Triggered	
E37	The Proponent must engage a person independent from the design and construction of the CSSI, to audit the air quality monitoring (in-tunnel and ambient) for the CSSI at six (6) monthly intervals following commencement of operation of the CSSI, or at any longer interval if approved by the Secretary.	Operation	SMC	Not Yet Triggered	
E38	The Proponent must consult with the EPA and AQCCC before nominating the proposed auditor to the Secretary. Operation of the CSSI must not commence until the auditor's appointment is approved by the Secretary. The auditor may be the same person(s) appointed under Condition E27.	Pre-Operation	SMC	Not Yet Triggered	
E39	The auditor must ensure that the operating procedures and equipment to acquire air monitoring, meteorological data and emission monitoring data and monitoring reporting comply with NATA (or equivalent) requirements and sound laboratory practice.	Pre-Operation	LSBJV SMC	Not Yet Triggered	
E40	The Proponent must document the results of the audit and make available all audit data for inspection by the Secretary upon request. A copy of the audit report must also be issued to the Proponent and AQCCC.	Operation	SMC	Not Yet Triggered	
E41	The Proponent must undertake appropriate quality assurance (QA) and quality control (QC) measures for air quality and ventilation outlet emission monitoring data. This must include, but not be limited to: accreditation/quality systems; staff qualifications and training; auditing; monitoring procedure; service and maintenance; equipment or system malfunction; and records/reporting. The QA/QC measures must be approved by an expert independent from the design and construction of the CSSI. The independent expert must be approved by the Secretary prior to monitoring of air quality and ventilation outlet emissions, as appropriate.	Pre-Operation	LSBJV/SMC/RMS	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
	The Proponent must assist the relevant planning authority(s) in developing an air quality assessment process for inclusion in a Development Control Plan or other appropriate planning instrument, in considering planning and building approvals for new development in areas adjacent to the ventilation outlets which would be within a potential three-dimensional zone of affectation (buffer volume).				
E42	This process must include procedures for identifying the width and height of buildings that are likely to be either affected by the plume from the ventilation outlet or affect the dispersion of the plume from the ventilation outlet through building wake effects. A part of this process, the Proponent must provide data detailing the results of modelling of pollution concentrations at various heights and distances from the ventilation outlets. This information must be provided within 18 months following the date of this approval. The Proponent must meet all reasonable costs for the development of this process and any necessary amendments to the planning instrument(s) required to implement the process.	Pre-Operation	RMS	Not Yet Triggered	
E43	During construction, where bus stops are required to be temporarily closed or relocated, such closure must not occur until relocated bus stops are functioning, have similar capacity and are relocated within a 400 metre walking distance of the existing bus stop. Closures and relocation of bus stops during construction must be undertaken in consultation with Transport for NSW and relevant council(s). Wayfinding signage must be provided directing commuters to adjacent or relocated bus stops. Footpaths must be provided to any relocated bus stops such that accessibility standards are met.	Construction	LSBJV	Open	A Traffic and Transport and Access Management Sub-Plan (Section 5.7) (TTAMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0001) has been prepared and will be implemented to assist in complying with this condition. This CoA applies to the construction phase of the Project and compliance with this condition will be reported in subsequent compliance reports.
E44	' '	Construction Pre-Operation	LSBJV	Not Yet Triggered	
E45	Access to Light Rail stops must be maintained at all times.	Construction	LSBJV	Open	A TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001) (Section 5.7.1) has been prepared and will be implemented to assist in complying with this condition. LSBJV will strive to minimise disruption to the Light Rail and access to Light Rail stops will not be impacted by LSBJV at any time during construction. This CoA applies to the construction phase of the Project and compliance with this condition will be reported in subsequent compliance reports.
E46		Construction	LSBJV	Open	A TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001) (Section 4.5) has been prepared and will be implemented to assist in complying with this condition. This CoA applies to the construction phase of the Project and compliance with this condition will be reported in subsequent compliance reports.
E47	Any property access physically affected by the CSSI must be reinstated to at least an equivalent standard, unless otherwise agreed by the landowner or occupier.	Construction	LSBJV	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E48	Bignell Lane, Camperdown, must be reinstated to its preimpact alignment and length prior to operation, unless otherwise approved by the Secretary following consultation with the relevant council.	Construction	LSBJV	Not Yet Triggered	
E49	Spoil haulage movements associated with the construction of the CSSI are not permitted to use local roads within one (1) kilometre of construction works and construction ancillary facilities, unless approved by the Secretary.	Construction	LSBJV	Not Yet Triggered	
E50	Construction vehicles must not use Robert Street, Rozelle to access the White Bay Civil Site.	Construction	LSBJV	Not Yet Triggered	
E51	All requests to the Secretary for local road usage need to include a traffic and pedestrian impact assessment, and should include a swept path analysis if required. The traffic and pedestrian impact assessment, incorporated in the Site Establishment Management Plan or Traffic and Transport CEMP as relevant, must:  (a) demonstrate that the local road usage will not compromise the safety of the public and have minimal amenity impacts;  (b) provide details as to the date of completion of the road dilapidation surveys for the subject local roads; and  (c) describe the measures that will be implemented to avoid where practicable the use of local roads past schools, aged care facilities and child care facilities during peak times for operation.	Construction	LSBJV	Open	Where required, as determined in consultation with DPE, preparation of traffic and pedestrian impact assessments will be undertaken to support requests for heavy vehicles on local roads not included in the EIS/SPIR.
E52	Construction vehicles (including staff vehicles) associated with the CSSI must be managed to:  (a) minimise parking on public roads;  (b) minimise idling and queuing on public roads; and  (c) ensure spoil haulage vehicles must adhere to the nominated haulage routes identified in the Traffic and Transport CEMP.	Construction	LSBJV	Not Yet Triggered	
E53	The locations of all construction spoil haulage vehicles must be able to be monitored in real time and the records of monitoring be made available electronically to the Secretary and the EPA upon request for a period of no less than one year following construction.  Note: Refer to Condition A44 in relation to vehicle identification.	Construction	LSBJV	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	RASDONSIDILIV	Compliance Status	Comments / Evidence
E54	A Construction Parking and Access Strategy must be prepared and implemented to identify and mitigate impacts resulting from on- and off-street parking changes during construction of the CSSI. The Strategy must include, but not necessarily be limited to:  (a) confirmation and timing of the removal of on- and off-street parking associated with construction of the CSSI; (b) parking surveys of all parking spaces to be removed to determine current demand during peak, off-peak, school drop off and pickup, and weekend periods; (c) consultation with affected stakeholders utilising existing on- and off-street parking stock which will be impacted as a result of construction; (d) assessment of the impacts of changes to on- and off-street parking stock taking into consideration outcomes of consultation with affected stakeholders; (e) identification of mitigation measures to manage impacts to stakeholders as a result of on- and off-street parking changes including, but not necessarily limited to, staged removal and replacement of parking, provision of alternative parking arrangements, managed staff parking arrangements and working with relevant council(s) to introduce parking restrictions adjacent to work sites and compounds; (f) provision of a shuttle bus service(s) to transport workers to site(s) and details of the shuttle bus service(s), including service timing and frequency; (g) mechanisms for monitoring, over appropriate intervals, to determine the effectiveness of implemented mitigation measures; (h) provision of contingency measures should the results of mitigation monitoring indicate implemented measures are ineffective; and (i) provision of reporting of monitoring results to the Secretary and relevant council(s) at three (3) monthly intervals.		LSBJV SMC provide input	Open	A Construction Parking and Access Strategy (CPAS) (M4M5-LSBJ-PRW-EN-MP01-PLN-0015) has been prepared for the construction of the Project and has been provided to the relevant stakeholders for consultation and lodgment with DPE. Parking surveys are currently being undertaken to inform mitigation measures that will be included in the CPAS prior to approval by DPE.
E55		Construction	LSBJV	Open	The CSSI will be designed to meet relevant design, engineering and safety guidelines. A TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001) (Section 5) has been prepared and will be implemented to assist in complying with this condition. Detailed Design is ongoing and compliance with this condition will be reported in subsequent compliance reports.
E56	An independent Road Safety Audit(s) is to be undertaken by an appropriately qualified and experienced person during detailed design to assess the safety performance of new or modified local road, parking, pedestrian and cycle infrastructure provided as part of the CSSI (including ancillary facilities) to ensure that they meet the requirements of relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Management. Audit findings and recommendations must be actioned prior to construction of the relevant infrastructure and must be made available to the Secretary on request.	Construction	LSBJV SMC to select Auditor	Open	Independent Road Safety Audit(s) will be undertaken during detailed design to ensure compliance with relevant requirements specific in this condition. Detailed Design is ongoing and compliance with this condition will be reported in subsequent compliance reports. A TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001) (Section 6.4.1) has also been prepared and will be implemented to assist in complying with this condition.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E57	with the relevant standards must be provided and signposted.	Construction	LSBJV	Open	Safe pedestrian and cyclist access will be maintained around work sites during construction. A TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001) (Section 5.6) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.
E58	The Proponent must provide improved connectivity for cyclist and pedestrians between Roberts Street and Springside Street, and incorporate these in the Pedestrian and Cycle Implementation Strategy required by Condition E60.  Note: This condition does not specifically require work to be undertaken in the Victoria Road reservation, but could include works on the parallel local road network.	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E59	Enhanced cycle facilities at Rozelle Bay and Leichhardt North light rail stops must be investigated and implemented if possible in consultation with Transport for NSW and incorporated into the Pedestrian and Cycle Implementation Strategy required by Condition E60.	N/A	N/A	N/A	This requirement, in relation to the Leichhardt North light rail stop, is not triggered for Mainline Tunnels works as Darley Road civil and tunnel site has been removed from the scope of works.  This requirement, in relation to Rozelle Bay light rail stop, is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
	A detailed Pedestrian and Cycle Implementation Strategy must be included as a component of the Urban Design and Landscape Plan required by Condition E133 and reviewed by the Design Review Panel. The Strategy must be prepared in consultation with relevant council(s) and Bicycle NSW. The Strategy must be consistent with the Active Transport Strategy in Volume 2F, Appendix N of the EIS and must incorporate the requirements of Conditions E58 and E59 and include:				A Pedestrian and Cycle Implementation Strategy will be included as a component of the Urban Design and Landscape Plan required by Condition E133 and reviewed by the Design Review Panel. Design is ongoing and compliance with this condition will be reported in subsequent compliance reports.
E60	<ul> <li>(a) pedestrian and cycle engineering and safety standards;</li> <li>(b) a safety audit of existing and proposed pedestrian and cycle facilities to address the above standards;</li> <li>(c) details of selected routes and connections to existing local and regional routes;</li> <li>(d) timing and staging of all works;</li> <li>(e) infrastructure details, including lighting, safety, security, and standards compliance;</li> <li>(f) signage and wayfinding measures; and</li> <li>(g) details of associated landscaping works.</li> </ul>	Construction	LSBJV	Open	
	All identified works arising from this condition are to be implemented prior to the commencement of project operations, except as permitted by this approval.				

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E61	A Road Dilapidation Report must be prepared by a suitably qualified person, for local roads (and associated infrastructure within the road reserve) proposed to be used by heavy vehicles for works associated with the CSSI, before the commencement of use by such vehicles. Copies of the Road Dilapidation Report must be provided to the relevant road authorities within three (3) weeks of completing the surveys and no later than one (1) month before the use of local roads by such vehicles.	Construction	LSBJV	Open	Road Dilapidation Reports will be prepared in accordance with this condition. Copies of the Road Dilapidation Report will be provided to the relevant road authorities within three weeks of completing the surveys and no later than one month before the use of local roads by such vehicles. A Traffic and Transport and Access Management Sub-Plan (Section 5.3.1) has also been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.
E62	If damage to roads occurs as a result of the construction of CSSI, the Proponent must either:  (a) compensate the relevant road authority for the damage so caused. The amount of compensation may be agreed with the relevant road authority, but compensation must be paid even if no agreement is reached; or  (b) rectify the damage so as to restore the road to at least the condition it was in pre-construction.	Construction	LSBJV	Open	Noted. A TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001) (Section 5.3) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in compliance reports.
E63	Prior to the commencement of operation of the full CSSI (mainline tunnel and Rozelle Interchange), the Proponent must prepare a Road Network Performance Plan in consultation with Transport for NSW and the relevant council(s). The Plan should incorporate operational traffic modelling results from the M4 East and New M5 (SSI 6307 and SSI 6788) projects, and include:  (a) consideration of movement and place analysis and local initiatives, such as local area improvement strategies and potential land use changes, and any traffic changes as a result of other major road projects within the project area; (b) an updated analysis, including modelling of traffic impacts to the adjoining road network (including impacts on local roads from rat-running), as a consequence of the CSSI; (c) an assessment of the performance of the road network, including potential 'pinch-points' where the merging of tunnel exit traffic and surface traffic would occur at the Haberfield Interchange, the St Peters Interchange and Rozelle Interchange and Iron Cove Link; and (d) mitigation measures to manage predicted traffic performance impacts including local area traffic management and bus priority measures as relevant.  The Road Network Performance Plan must be submitted to the Secretary and relevant council(s). The implementation of the Plan must have commenced prior to the full operation of the CSSI. The Proponent is responsible for the implementation of the identified measures under Condition E63(d).  Note: Identified mitigation measures may need to be further assessed under the Environmental Planning and Assessment Act, 1979. Works will need to meet	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E64	The Proponent must prepare an Operational Road Network Performance Review, within 12 months and five (5) years after the commencement of operation of the full CSSI (of the mainline tunnels and Rozelle Interchange). The Review must address road network performance and review the performance of the CSSI on the adjoining road network. The Review must confirm the adequacy of the mitigation measures identified in the Road Network Performance Plan required under Condition E63.  The Review must be undertaken in consultation with Transport for NSW and relevant council(s) and be completed within six (6) months of the review timeframes. The Review must be provided to the Secretary within 60 days of its completion.  Further mitigation measures, if required, must be included in the Review. The Proponent is responsible for the implementation of the identified measures.  Note: Identified mitigation measures may need to be further assessed under the Environmental Planning and Assessment Act, 1979. Works will need to meet relevant design standards and to subject to independent road safety audits.		N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E65	In the event that the Rozelle Interchange is not open to traffic within 24 months of the opening of the mainline tunnel, an Operational Road Network Performance Review must be prepared prior to the operation of the Rozelle Interchange.	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E66	Lundertaken on a progressive hasis hut must be undertaken in any one area prior	Pre-Construction Construction	LSBJV	Open	Noted, land use surveys are being progressively undertaken. The latest version of the Land Use Survey (dated 17 September 2018) forms Appendix C of the Rev01 of the NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) which was issued to DPE for review on 18 September 2018. No Non-Compliances against the management measures have occurred during the Pre-construction period. Compliance with this condition will be reported in subsequent compliance reports.
E67	All noise and vibration assessment, management and mitigation required by this approval must consider the cumulative noise impacts of approved CSSI and SSI projects. This includes using ambient and background levels which do not	Pre-Construction Construction	LSBJV	Open	Noted, the cumulative noise impacts of the Project has been considered. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 7.1 ) has been prepared and will be implemented to assist in complying with this condition. No Non-Compliances against the management measures have occurred during the Pre-construction period. Compliance with this condition will be reported in subsequent six-monthly compliance reports and the pre-operation compliance report.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E68	Works must be undertaken during the following construction hours: (a) 7:00am to 6:00pm Mondays to Fridays, inclusive; (b) 8:00am to 6:00pm Saturdays; and (c) at no time on Sundays or public holidays.	Pre-Construction Construction	LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 5.3.1) has been prepared and will be implemented to assist in complying with this condition. No Non-Compliances against the management measures have occurred during the Pre-construction period. Compliance with this condition will be reported in subsequent compliance reports.
E69	Notwithstanding Condition E68, works may be undertaken between 1:00 pm to 6:00 pm on Saturday.	Pre-Construction Construction	LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 5.3.1) has been prepared and will be implemented to assist in complying with this condition. No Non-Compliances against the management measures have occurred during the Pre-construction period. Compliance with this condition will be reported in subsequent compliance reports.
E70	Notwithstanding Conditions E68 and E69 the following works are permitted to be undertaken 24 hours a day, seven days a week:  (a) tunnelling activities excluding cut and cover tunnelling; (b) haulage of spoil and delivery of material; (c) works within an acoustic shed; and (d) tunnel fit out works.  Other surface works associated with tunnelling must only be undertaken in accordance with the requirements of Condition E73.	Pre-Construction Construction	LSBJV	Open	Noted. A Noise and Vibration Management Sub-Plan (Section 5.3.2) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.
E71	Notwithstanding Conditions E70 and E73 spoil haulage from the Darley Road construction ancillary facility must only be undertaken during the hours	N/A	N/A	Not Yet Triggered	N/A - No works proposed at Darley Road
E72	Except as permitted by an EPL, highly noise intensive works that result in an exceedance of the applicable NML at the same receiver must only be undertaken:  (a) between the hours of 8:00 am to 6:00 pm Monday to Friday; (b) between the hours of 8:00 am to 1:00 pm Saturday; and (c) in continuous blocks not exceeding three (3) hours each with a minimum respite from those activities and works of not less than one (1) hour between each block.  For the purposes of this condition, 'continuous' includes any period during which there is less than a one (1) hour respite between ceasing and recommencing any of the work that are the subject of this condition.		LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 5.3.3) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.

CoA	Final Conditions of Approval	Timing	RASHANSINIIIV	Compliance Status	Comments / Evidence
E73	Notwithstanding Conditions E68 to E72 works may be undertaken outside the hours specified under those conditions in the following circumstances:  (a) for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or (b) where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm; or (c) where different construction hours are permitted or required under an EPL in force in respect of the CSSI; or (d) works approved under an Out-of-Hours Work Protocol for works not subject to an EPL as required by Condition E77; or (e) construction that causes LAeq(15 minute) noise levels: (i) no more than 5 dB(A) above the rating background level at any residence in accordance with the Interim Construction Noise Guideline (DECC, 2009), and (ii) no more than the 'Noise affected' noise management levels specified in Table 3 of the Interim Construction Noise Guideline (DECC, 2009) at other sensitive land uses, and (iii) continuous or impulsive vibration values, measured at the most affected residence are no more than the maximum values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006), and (iv) intermittent vibration values measured at the most affected residence are no more than the maximum values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006).  Note: Section 5.24(1)(e) of the EP&A Act requires that an EPL be substantially consistent with this approval. For example, an EPL cannot authorise spoil movements at the Darley Road construction ancillary facility outside of the	Construction	LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 5.4 and Appendix B) has been prepared and will be implemented to assist in complying with this condition. No Non-Compliances against the management measures have occurred during the Preconstruction period. Compliance with this condition will be reported in subsequent compliance reports.
E74	On becoming aware of the need for emergency works in accordance with Condition E73(b), the Proponent must notify the AA, the ER and the EPA of the need for that work. The Proponent must use best endeavours to notify all noise and/or vibration affected sensitive receivers of the likely impact and duration of those works.	Construction	LSBJV	Open	A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 5.4 and Appendix B) has been prepared and will be implemented to assist in complying with this condition. To date there have been no need for emergency works in accordance with CoA E73(b) for the Stage 1 construction period to which this PCCR applies. Compliance with this condition will be reported in subsequent compliance reports.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E75	Out-of-hours works that are regulated by an EPL as per Condition E73(c) or through the Out-of-Hours Work Protocol as per Condition E77 include:  (a) works which could result in a high risk to construction personnel or public safety, based on a risk assessment carried out in accordance with AS/NZS ISO 31000:2009 "Risk Management – Principles and Guidelines"; or (b) where the relevant road network operator has advised the Proponent in writing that carrying out the works and activities could result in a high risk to road network operational performance; or (c) where the relevant utility service operator has advised the Proponent in writing that carrying out the works and activities could result in a high risk to the operation and integrity of the utility network; or (d) where the TfNSW Transport Management Centre (or other road authority) has advised the Proponent in writing that a road occupancy licence is required and will not be issued for the works or activities during the hours specified in Condition E68 and Condition E69; or (e) where Sydney Trains (or other rail authority) has advised the Proponent in writing that a Rail Possession is required.  Note: Other out-of-hours works can be undertaken with the approval of an EPL, or through the project's Out-of-Hours Work Protocol for works not subject to a EPL.	Construction	LSBJV	Open	An Out-of-Hours Work Protocol (M4M5-LSBJ-PRW-EN-GE01-PRC-0003) and a NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 5.4 and Appendix B) has been prepared and will be implemented to assist in complying with this condition. To date there have been no out-of-hours-works for the Stage 1 construction period to which this PCCR applies. Compliance with this condition will be reported in subsequent compliance reports.
E76	In order to undertake out-of-hours work described in Condition E75, the Proponent must identify appropriate respite periods for the out-of-hours works in consultation with the community at each affected location. This consultation must include (but not be limited to) providing the community with:  (a) a schedule of likely out-of-hours work for a period no less than three (3) months; (b) the potential works, location and duration; (c) the noise characteristics and likely noise levels of the works; and (d) likely mitigation and management measures.  The outcomes of the community consultation, the identified respite periods and the scheduling of the likely out-of-hour works must be provided to the AA, EPA and the Secretary.	Construction	LSBJV	Open	A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 5.4 and Appendix B) has been prepared and will be implemented to assist in complying with this condition. A CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004) (Section 7, Table 7-1) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.

CoA	Final Conditions of Approval	Timing	RASHANSINIIIV	Compliance Status	Comments / Evidence
E77	An Out-of-Hours Work Protocol must be prepared to identify a process for the consideration, management and approval of works which are outside the hours defined in Conditions E68 and E69, and that are not subject to an EPL. The Protocol must be approved by the Secretary prior to commencement of the works. The Protocol must be prepared in consultation with the EPA and AA. The Protocol must:  (a) provide a process for the consideration of out-of-hours works against the relevant noise and vibration criteria, including the determination of low and high risk activities; (b) provide a process for the identification of mitigation measures for residual impacts, including respite periods in consultation with the community at each affected location, consistent with the requirements of Condition E76; (c) identify procedures to facilitate the coordination of out-of-hours works approved by an EPL to ensure appropriate respite is provided; (d) identify an approval process that considers the risk of activities, proposed mitigation, management, and coordination, including where:  (i) low risk activities can be approved by the ER in consultation with the AA, and  (ii) high risk activities that are approved by the Secretary; and (e) identify Department, EPA and community notification arrangements for approved out of hours works, which maybe detailed in the Communication Strategy.	Construction	LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 5.4 and Appendix B) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.
E78	All works undertaken for the delivery of the CSSI, including those undertaken by third parties, must be coordinated to ensure respite periods are provided. The Proponent must:  (a) reschedule any works to provide respite to impacted noise sensitive receivers so that the respite is achieved in accordance with Condition E76; or (b) consider the provision of alternative respite or mitigation to impacted noise sensitive receivers; and (c) provide documentary evidence to the AA in support of any decision made by the Proponent in relation to respite or mitigation.	Construction	LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 5.4 and Appendix B) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E79	Construction Noise and Vibration Impact Statements must be prepared for construction ancillary facility(s) before any works that result in noise and vibration impacts commence, and include specific mitigation measures identified through consultation with affected sensitive receivers. The Statements must supplement the Construction Noise and Vibration Management Sub-plan or Site Establishment Management Plan(s) and are to be implemented for the duration of the works. The Construction Noise and Vibration Impact Statement for the White Bay Civil Site (C11) must be prepared in consultation with the Port Authority of NSW and NSW Heritage Council.	Construction	LSBJV	Open	A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 7.1) has been prepared and will be implemented to assist in complying with this condition. A CNVIS has been prepared for site establishment and operation of ancillary facilities in accordance with CoA E79 include:  • Parramatta Road East and West civil sites  • Campbell Road civil and tunnel site  • Northcote Street site  • Pyrmont Bridge Road tunnel site.  These documents are currently in development and undergoing internal review/update.  Compliance with this condition will be reported in subsequent
E80	Noise generating works in the vicinity of potentially-affected community, religious, educational institutions and noise and vibration-sensitive businesses and critical working areas (such as theatres, laboratories and operating theatres) resulting in noise levels above the NMLs must not be timetabled within sensitive periods, unless other reasonable arrangements with the affected institutions are made at no cost to the affected institution.		LSBJV	Open	A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Table 8-1) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.
E81	Mitigation measures must be implemented with the aim of achieving the following construction noise management levels and vibration criteria:  (a) construction 'Noise affected' noise management levels established using the Interim Construction Noise Guideline (DECC, 2009); (b) vibration criteria established using the Assessing vibration: a technical guideline (DEC, 2006) (for human exposure); (c) Australian Standard AS 2187.2 - 2006 "Explosives - Storage and Use - Use of Explosives"; (d) BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2" as they are "applicable to Australian conditions"; and	Construction	LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Table 8-1) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.

СоА	Final Conditions of Approval	Timing		Compliance Status	Comments / Evidence
E82	Mitigation measures must be applied when the following residential ground-borne noise levels are exceeded:  (a) evening (6:00 pm to 10:00 pm) — internal LAeq(15 minute): 40 dB(A); and (b) night (10:00 pm to 7:00 am) — internal LAeq(15 minute): 35 dB(A).  The mitigation measures must be outlined in the Construction Noise and Vibration Management Sub-plan, including in any Out-of-Hours Work Protocol, required by Condition E77.	Construction	LSBJV	Open	Noted. Compliance with this condition will be reported in subsequent Compliance Reports.
E83	Owners and occupiers of properties at risk of exceeding the screening criteria for cosmetic damage must be notified before works that generate vibration commences in the vicinity of those properties. If the potential exceedance is to occur more than once or extend over a period of 24 hours, owner and occupiers are to be provided a schedule of potential exceedances on a monthly basis for the duration of the potential exceedances, unless otherwise agreed by the owner and occupier. These properties must be identified and considered in the Construction Noise and Vibration Management Sub-plan.	Construction	LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 8.3, Table 8-1, Appendix C) has been prepared and will be implemented to assist in complying with this condition as well as a Community Communication Strategy (Section 4.4, 5.1, 5.2, 5.3, Table 7-1, Section 7.2) has been prepared and will be implemented to assist in complying with this condition. To date LSBJV have complied with all requirements of this conditions during the Stage 1 construction period to which this PCCR applies. Compliance with this condition will be reported in subsequent compliance reports.
E84	The Proponent must conduct vibration testing before and during vibration generating activities that have the potential to impact on heritage items to identify minimum working distances to prevent cosmetic damage. In the event that the vibration testing and monitoring shows that the preferred values for vibration are likely to be exceeded, the Proponent must review the construction methodology and, if necessary, implement additional mitigation measures.	Construction	LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) has been prepared and will be implemented to assist in complying with this condition. To date LSBJV have complied with all requirements of this conditions during the Stage 1 construction period to which this PCCR applies. Compliance with this condition will be reported in subsequent compliance reports.
E85	The Proponent must seek the advice of a heritage specialist on methods and locations for installing equipment used for vibration, movement and noise monitoring at heritage-listed structures.	Construction	LSBJV	Open	Noted. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) and Non-Aboriginal Heritage Management Plan (NAHMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0007) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.
E86	All acoustic sheds must be erected as soon as site establishment works at the facilities are completed and before undertaking any works which are required to be conducted within the sheds.	Pre-construction	LSBJV	Open	Noted, acoustic sheds will be erected as soon as site establishment works at the facilities are completed and before undertaking any works which are required to be conducted within the sheds. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Table 8-1) has been prepared and will be implemented to assist in complying with this condition. To date LSBJV have complied with all requirements of this conditions during the Stage 1 construction period to which this PCCR applies. Compliance with this condition will be reported in subsequent compliance reports.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E87	For out-of-hours work undertaken in accordance with Condition E75, at-receiver noise mitigation in the form of at-property treatment must be offered to the land owner for habitable living spaces, or other mitigation or management measures as agreed by the occupier, to properties identified in Appendix D. Mitigation must be offered prior to out-of-hours work commencing.  This requirement does not apply if the sensitive receiver has been provided with noise mitigation under the RMS Noise Abatement Program or the State Environment Planning Policy (Infrastructure) 2007 (clause 102(3)). The adequacy of at-property treatments will be reviewed where previous treatments have been installed as part of other SSI or CSSI projects.  Note: This condition does not preclude the application of other noise and vibration mitigation and management measures.	NI/Δ	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E88	At receiver noise mitigation in the form of at-property treatment must be offered to the land owner for habitable living spaces, or other mitigation or management measures as agreed by the occupier, to residential properties identified in Appendix E. Mitigation must be offered prior to works commencing.  This requirement does not apply if the sensitive receiver has been provided with noise mitigation under the RMS Noise Abatement Program or the State Environment Planning Policy (Infrastructure) 2007 (clause 102(3)). The adequacy of at-property treatments will be reviewed where previous treatments have been installed as part of other SSI or CSSI projects.  Note: This condition does not preclude the application of other noise and vibration mitigation and management measures.		LSBJV	Open	A Noise Insulation Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0012) has been prepared to assist in complying with this condition. Compliance with this condition will be reported in subsequent compliance reports.
E89	A Noise Insulation Program must be prepared and implemented for the duration of CSSI works for receivers at/to which the requirements of Conditions E87 and E88 apply. The Program must be incorporated into the Construction Noise and Vibration Management Sub-plan.  The Noise Insulation Program must detail the following matters:  (a) receivers eligible for the scheme;  (b) the scope of the insulation package;  (c) responsibility for the noise insulation works;  (d) procedure and the terms of the noise insulation works;  (e) program monitoring; and  (f) program review and amendment.  The Noise Insulation Program must be endorsed by the AA.	Pre-construction	LSBJV	Open	A Noise Insulation Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0012) has been prepared to assist in complying with this condition and has been provided to DPE for approval. Offers of mitigation has not yet commenced. Compliance with this condition will be reported in subsequent compliance reports.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E90	Receivers which are eligible for receiving treatment under the Noise Insulation Program required under Condition E89 must have treatment implemented within six (6) months following the commencement of construction which would affect the receiver. The implementation of the Noise Insulation Program must be prioritised based on the degree and duration of exceedance with high priority exceedances undertaken within three (3) months of the commencement of construction.	Construction	LSBJV	Open	A Noise Insulation Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0012) has been prepared to assist in complying with this condition and has been provided to DPE for approval. Offers of mitigation has not yet commenced. Compliance with this condition will be reported in subsequent compliance reports.
E91	At no time can noise generated by construction exceed the National Standard for exposure to noise in the occupational environment of an eight-hour (8hr) equivalent continuous A-weighted sound pressure level of LAeq,8h of 85 dB(A) for any employee working at a location near the CSSI.	Construction	LSBJV	Not Yet Triggered	
E92	11 11 0 1111	Pre-operation Operation	LSBJV	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E93	Noise mitigation measures as identified in Condition E92 that will not be physically affected by works, or which have not been implemented in accordance with Conditions E87 and E88 must be implemented within six (6) months of the commencement of construction in the vicinity of the impacted receiver to minimise construction noise impacts, and detailed in the Construction Noise and Vibration Management Sub-plan for the CSSI.	Construction	LSBJV	Open	Noise mitigation measures identified in Condition E92 that will not be physically affected by works, or which have not been implemented in accordance with Conditions E87 and E88 will be implemented within six months of the commencement of construction. A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 8.2) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent six-monthly and pre-operation compliance reports.
E94	Timbacis Tibili such time that the oberational holse mithation measures	Pre-operation Operation	LSBJV	Open	A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) (Section 8.2) has been prepared and will be implemented to assist in complying with this condition. This CoA applies to the operational phase of the Project and will be reported on in subsequent construction and pre-operation compliance reports.

СоА	Final Conditions of Approval	Timing	RASHANSINIIIV	Compliance Status	Comments / Evidence
E95	Within 12 months of the commencement of operation of the CSSI, the Proponent must undertake monitoring of operational noise to compare actual noise performance of the CSSI against the noise performance predicted in the review of noise mitigation measures required by Condition E92. The Proponent must prepare an Operational Noise Compliance Report to document this monitoring. The Report must include, but not necessarily be limited to:  (a) noise monitoring to assess compliance with the operational noise levels predicted in the review of operational noise mitigation measures required under Condition E92; (b) a review of the operational noise levels in terms of criteria and noise goals established in the NSW Road Noise Policy 2011; (c) methodology, location and frequency of noise monitoring undertaken, including monitoring sites at which CSSI noise levels are ascertained, with specific reference to locations indicative of impacts on sensitive receivers; (d) details of any complaints and enquiries received in relation to operational noise generated by the CSSI between the date of commencement of operation and the date the report was prepared; (e) any required recalibrations of the noise model taking into consideration factors such as noise monitoring and actual traffic numbers and proportions; (f) an assessment of the performance and effectiveness of applied noise mitigation measures together with a review and if necessary, reassessment of mitigation measures required by Condition E92, that would be implemented with the objective of meeting the criteria outlined in the NSW Road Noise Policy (EPA, 2011) and Industrial Noise	Operation	LSBJV	Not Yet Triggered	
E96	If blasting is proposed a Blast Management Strategy must be prepared and must include:  (a) sequencing and review of trial blasting to inform blasting; (b) regularity of blasting; (c) intensity of blasting; (d) impact mitigation measures including periods of relief; and (e) blasting program.	N/A	LSBJV	Not Yet Triggered	
E97	The Blast Management Strategy must be endorsed by a suitably qualified and experienced person and reviewed by an independent specialist.	N/A	LSBJV	Not Yet Triggered	
E98	The Blast Management Strategy must be prepared in accordance with relevant guidelines and in consultation with the EPA to ensure that all blasting and associated activities are carried out so as not to generate unacceptable noise and vibration impacts or pose a significant risk to sensitive receivers.	N/A	LSBJV	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E99	blasting. The Strategy as submitted to the Secretary, must be implemented for all blasting activities.	N/A	LSBJV	Not Yet Triggered	
E100	Blasting associated with the CSSI must only be undertaken during the following hours:  (a) 9:00 am to 5:00 pm, Monday to Friday, inclusive; (b) 9:00 am to 1:00 pm, Saturday; and (c) at no time on Sunday or on a public holiday; or as authorised through an EPL if blasting is proposed outside of these hours.  This condition does not apply in the event of a direction from police or other relevant authority for safety or emergency reasons to avoid loss of life, property loss and/or to prevent environmental harm.	Construction	LSBJV	Not Yet Triggered	
E101	. 3 3 1	Prior to excavation and tunnelling	LSBJV	Open	Noted. A geotechnical model of representative geological and groundwater conditions must be prepared prior to excavation and tunnelling to identify geological structures and groundwater features.
E102		Prior to excavation and tunnelling	LSBJV	Open	Noted. A review of surface and sub-surface structures at risk from damage to determine appropriate criteria to prevent damage, prior to excavation and tunnelling works that may pose a settlement risk
E103	,	Prior to excavation and tunnelling	LSBJV	Open	Noted

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E104	1	Prior to excavation and tunnelling	LSBJV	Open	Noted
E105	settlement or vibration by the geotechnical model described in Condition E101. The pre-dilapidation surveys and reports must be prepared by a suitably	Prior to the commencement of potentially impacting works.	LSBJV	Open	A process has commenced in order to comply with the requirements of this condition.
E106	assess damage to the surface and sub-surface structures that may have resulted	Construction, Pre- Operation and Operation	LSBJV	Not Yet Triggered	
E107	three (3) weeks of completing the surveys and no later than four (4) months following the completion of construction.	Operation	LSBJV	Open	A process has commenced in order to comply with the requirements of this condition.
E108	Where damage has been determined to occur as a result of the project, the Proponent must carry out rectification at its expense and to the reasonable requirements of the surface and sub-surface structure owner(s) within three (3) months of completion of the post-dilapidation surveys unless another timeframe is agreed with the owner of the affected surface or sub-surface structure.	Operation	LSBJV	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E109	The Proponent must establish an Independent Property Impact Assessment Panel before works that have the potential to result in property impacts commence. The Panel must comprise geotechnical and engineering experts independent of the design and construction team. The Panel will be responsible for independently reviewing Condition Survey Reports undertaken under Conditions E105 and E106, the resolution of property damage disputes, and the establishment of ongoing settlement and vibration monitoring requirements. The Secretary must be informed of the Panel Members prior to property impact. Either the affected owner or the Proponent may refer unresolved disputes arising from potential and/or actual property impacts to the Panel for resolution. All costs incurred in establishing and implementing the Panel must be borne by the Proponent regardless of which party makes a referral to the Panel.	Pre-Construction Construction	RMS	Open	RMS has commenced the process for establishing the Panel
E110	lactioned for at least six (6) months following the final acquisition of residential	Pre-Construction Construction	RMS	Open	Property acquisition for M4-M5 Link is largely complete and RMS is continuing to liaise with relevant stakeholders as necessary.
E111		Construction Pre-Operation	RMS	Not Yet Triggered	
E112	1,	Construction Pre-Operation	RMS	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E113	Residual land that is to be used for a public use and/or transferred to a public authority is to be in a condition suitable for end use that does not incur additional cost to the public authority to reasonably rehabilitate the land for the future development identified in the RLMP.	Construction Pre-Operation	RMS/SMC/LSBJV	Not Yet Triggered	
E114	All residual land identified for open space uses in accordance with an approved RLMP must be made available to the relevant council or public authority within 12 months of the completion of construction.	Construction Pre-Operation	RMS	Not Yet Triggered	
E115	All residual land is to be managed in accordance with the maintenance requirements of the UDLP until such time as it is transferred to a differing owner or authority in accordance with the RLMP, unless otherwise agreed with the Secretary (and any relevant authority to own the land).	Construction Pre-Operation	RMS	Not Yet Triggered	
E116	The CSSI must be constructed in a manner that minimises visual impacts of construction sites, including, providing temporary landscaping and vegetative screening of the construction sites, minimising light spill, and incorporating architectural treatment and finishes within key elements of temporary structures that reflect the context within which the construction sites are located.	Construction	LSBJV	Open	The CSSI will be constructed in a manner that minimises visual impacts of construction sites. Detailed design is ongoing and compliance with this condition will be reported in subsequent construction compliance and pre-operation reports.
E117	The Proponent must investigate, and implement where reasonable, opportunities to consolidate operational ancillary facilities at the Rozelle Rail Yards to maximise the amount of open space across the site.	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E118	The ventilation outlets at Rozelle and Iron Cove must incorporate a living vertical garden over their total areas. Notwithstanding, a reduced coverage or an alternative living green design treatment (such as wall climbers or landscape shielding) can be implemented subject to review by the Design Review Panel. The green elements are to be an integrated part of the architectural composition in aesthetic balance with the non-green elements and addressing key view corridors.	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E119	The design of the landscape verge associated with the Iron Cove Link (Area 01, figure 5.24 of Appendix L, Volume 2F of the EIS) must maximise planting opportunities.	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E120	A pedestrian and cycling green link, as described in the EIS, to be provided from the Rozelle Rail Yards and spanning City West Link to the park adjacent Chapman Road, must have adequate soil depth to facilitate planting across the bridge of a diverse range of vegetation consistent with the cross section provided at Figure 5.8 of Appendix L, Volume 2F of the EIS. The bridge must be a minimum width of 15 metres, where the pedestrian and cycling green link spans from Rozelle Rail Yards across the City West Link including the slip lane onto The Crescent, unless otherwise agreed by the Secretary.	NI/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E121	The connection between the pedestrian and cycling green link and the park adjacent to Chapman Road must be designed to integrate with the open space and active transport infrastructure within the park in a manner that maximise the safe movement of pedestrians and cyclists and provide a contiguous path between the Rozelle Rail Yards open space and the park adjoining Chapman Road.	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E122	The Proponent must construct and operate the CSSI with the objective of minimising light spillage to residential properties. All lighting associated with the construction and operation of the CSSI must be consistent with the requirements of Australian Standard 4282-1997 Control of the obtrusive effects of outdoor lighting and relevant Australian Standards in the series AS/NZ 1158 – Lighting for Roads and Public Spaces. Notwithstanding, the Proponent must provide mitigation measures to manage any residual night lighting impacts to protect properties adjoining or adjacent to the CSSI, in consultation with affected landowners.	Construction and Operation	LSBJV	Not Yet Triggered	
E123		Construction and Operation	LSBJV	Not Yet Triggered	
E124	leguinment or built form component associated with the CSSI where such	Pre-Construction and Construction	LSBJV	Open	Consultation with CASA, DIRD and Sydney Airport Operators prior to the commencement of construction to determine the need and potential positioning of aviation hazard lighting on any equipment or built form component will be undertaken as necessary. Detailed design is ongoing and compliance with this condition will be reported in subsequent six monthly construction compliance and pre-operation reports.
E125		Pre-Construction	LSBJV	Open	The Proponent must construct and operate the CSSI with the objective of minimising light spillage to residential properties.  Detailed design is ongoing and compliance with this condition will be reported in subsequent six monthly construction compliance and pre-operation reports.
E126	During design development of the CSSI, the Design Review Panel must review the design (excluding the tunnels between portals) to assess whether it is consistent with the commitments and outcomes made in the documents listed in Condition A1.	Pre-Construction and Construction	LSBJV	Open	A design review panel is being compiled in order to comply with this condition.
E127		Pre-Construction and Construction	LSBJV	Open	A design review panel is being compiled in order to comply with this condition.

СоА	Final Conditions of Approval	Timing	RASHANSINIIIV	Compliance Status	Comments / Evidence
E128	The Proponent and its contractor(s) are to be invited onto the Panel as observers only and to provide technical advice. The Proponent is to provide independent secretarial resources to the Panel.  The Design Review Panel may seek specialist advice from UrbanGrowth NSW (when the Panel convenes to discuss matters relating to the Rozelle Rail Yards and its surrounds).	Pre-Construction and Construction	LSBJV	Open	A design review panel is being compiled in order to comply with this condition.
E129	The Design Review Panel members must be nominated by the Proponent and approved by the Secretary in accordance with the timeframes in Condition E125.	Pre-Construction and Construction	LSBJV	Open	A design review panel is being compiled in order to comply with this condition.
E130	Nomination and appointments of the Design Review Panel must comply with the Public Service Commission's Appointment Standards: Boards and Committees in the NSW Public Sector guideline.	Pre-Construction and Construction	LSBJV	Open	A design review panel is being compiled in order to comply with this condition.
E131	Once the Design Review Panel is composed, and prior to the detailed design of the CSSI, a Design Review Panel Terms of Reference is to be developed and endorsed by all panel members. The Terms of Reference must be submitted to the Secretary for information and:  (a) establish best practice governance and protocols for the operation of the Design Review Panel; (b) include a Code of Conduct; (c) outline the agreed frequency of Design Review Panel meetings, coordinated with Proponent program requirements, to ensure timely advice and design adjustment; and (d) outline secretariat functions and administration including the recording and storing of meeting agendas, minutes and actions.	Pre-Construction and Construction	LSBJV	Open	A design review panel is being compiled in order to comply with this condition.
E132	The Design Review Panel is to be operated and managed in accordance with the	Pre-Construction and Construction	LSBJV	Open	A design review panel is being compiled in order to comply with this condition.

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E133	commitments made in Chapters 13 and 29 of the EIS and updated in Part E of	Prior to the commencement of permanent built works and/or landscaping	LSBJV	Open	In accordance with this condition, a UDLP will be developed and submitted for DPE approval prior to the commencement of permanent built works and/or landscaping. No permanent surface works will be undertaken during the establishment stages. To date there have been no permanent built works/landscaping or permanent surface works during the establishment stages.
E134	1,, , , , , , , , , , , , , , , , , , ,	and/or landscaping	LSBJV	Open	A UDLP will be developed as required by condition E133 will be developed in accordance with this condition. Design is ongoing and compliance with this condition will be reported in subsequent construction phase compliance and pre-operation reports.
E135	The Urban Design and Landscape Plan(s), and its sub-plans, must be reviewed by the Design Review Panel. The Proponent must respond to the outcomes of the Design Review Panel's review and submit the UDLP to the Secretary for approval no later than one (1) month prior to the construction of permanent built surface works that are the subject of the Urban Design and Landscape Plan(s) (in the area to which the UDLP applies) or earth works for the final surface contouring of the Rozelle Rail Yards open space, whichever is the sooner.	Prior to the	LSBJV	Open	In accordance with this condition, the UDLP will be reviewed by the Design Review Panel and outcomes of the Design Review Panel's review along with the UDLP will be submitted to the Secretary for approval no later than one month prior to the construction of permanent built surface works. Design is ongoing and compliance with this condition will be reported in subsequent construction compliance and pre-operation reports.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E136	Tine Design Review Panel	Prior to the commencement of permanent built works and/or landscaping	LSBJV	Open	To date the UDLP has not been submitted to DPE for approval and there have been no permanent built works/landscaping or permanent surface works during the establishment stages during the Stage 1 construction period to which this PCCR applies. Design is ongoing and compliance with this condition will be reported in subsequent construction compliance and pre-operation reports.
E137	The Urban Design and Landscape Plan(s), as approved by the Secretary, must be implemented during construction, as required, and operation.	Construction and Operation	LSBJV	Not Yet Triggered	
E138	include:	Prior to the commencement of construction of any structures that may cause overshadowing of residential premises.	LSBJV	Open	A Solar Access and Overshadowing Report will be prepared submitted for DPE approval prior to the commencement of construction of any structures that may cause overshadowing of residential premises. Design is ongoing and compliance with this condition will be reported in subsequent construction compliance and pre-operation reports.
E139	The ongoing maintenance and operation costs of urban design, open space, landscaping and recreational items and works implemented as part of this approval will remain the Proponent's responsibility until satisfactory arrangements have been put in place for the transfer of the asset to the relevant authority. Prior to the transfer of assets, the Proponent will maintain items and works to at least the design standards established in the Urban Design and Landscape Plan, and its sub-plans, required by Condition E133.		LSBJV	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing		Compliance Status	Comments / Evidence
E140	A Utilities Management Strategy must be prepared and implemented for all utility works. The Strategy must identify how utility works will be defined and managed.  The Utilities Management Strategy must include:  (a) a definition of low impact utility work. The definition must consider parameters including, but not limited to, type of works, duration of works, hours of works, noise impacts, and traffic and access impacts;  (b) the functions of the Utility Coordination Manager as required by Condition E141;  (c) a description of all utility works to be undertaken, including low impact utility works and how they meet the definition in subclause (a); and  (d) the management measures that will be implemented to manage dust, noise, traffic, access and lighting impacts associated with low impact utility works.  The Utilities Management Strategy must be submitted to the Secretary for approval at least one (1) month prior to the commencement of low impact utility works.  Note: Utility works that are not low impact are construction and appropriate management measures would be included in the CEMP.		LSBJV	Open	A Utilities Management Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0017) has been prepared and will be implemented to address this condition and submitted for DPE approval. Compliance with this condition will be reported in subsequent construction compliance and pre-operation reports.
E141	A Utility Coordination Manager must be appointed for the duration of the CSSI works. The role of the Utility Coordination Manager must include, but not be limited to:  (a) the management and coordination of all utility works associated with the delivery of the CSSI, to ensure respite is provided to the community, as required under Condition E75; (b) providing advice to the Public Liaison Officer(s), regarding upcoming utility works, including the scope of the works and responsibility for the works; and (c) investigating complaints received from the Community Complaints Mediator or the Public Liaison Officer(s), relating to utility works, and providing a response to the Community Complaints Mediator or Public Liaison Officer(s).	Pre-Construction and Construction	LSBJV	Open	A Utility Coordination Manager has been appointed for the duration of the CSSI works. Compliance with this condition will be reported in subsequent construction compliance and preoperation reports.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E142	Temerdency.	Pre-Operation and Operation	LSBJV SMC to provide inputs	Not Yet Triggered	
E143	The Proponent must respond in writing to any recommendations made by FRNSW and NSW Police as a result of the exercise.	Pre-Operation and Operation	LSBJV	Not Yet Triggered	
E144	The Proponent must undertake annual Hazard Reviews of the project for the first five (5) years of operation. The Hazard Review must detail all hazardous incidents that have occurred during the preceding period, identify safety measures required to rectify those incidents, and address any ongoing issues.  The first Hazard Review must be undertaken for the first three (3) months of operation after the opening of the project to traffic. Subsequent Hazard Reviews must be undertaken for the following nine (9) months and thereafter at 12 monthly intervals.  FRNSW may also direct the Proponent to undertake a Hazard Review following any major incident in the tunnel.	Operation	SMC	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E145	A Hazard Review Report, outlining the results of the Hazard Review, and any proposed additional safety measure(s) to be implemented in response to the findings of the Hazard Review, must be submitted to FRNSW no later than one (1) month after the review period.  The Proponent must respond in writing to any recommendation made by FRNSW in relation to the findings of a Hazard Review, within such time as may be agreed to by FRNSW.	Operation	SMC	Not Yet Triggered	
E146	The Proponent must develop a Fire Engineering Brief and Fire Engineering Report to address fire and life safety in the tunnel, in consultation with FRNSW. The documents must be prepared prior to finalising the relevant design details for the tunnel. The documents must outline fire protection systems and other tunnel equipment, systems, and operational protocols required for fire and smoke management.  The Proponent must respond in writing to any recommendation made by FRNSW in relation to the Fire Engineering Brief and Fire Engineering Report, within such time as may be agreed by FRNSW.	Construction	LSBJV	Open	A Fire Engineering Brief and Fire Engineering Report will be prepared in consultation with FRNSW and in accordance with this condition, prior to finalising detailed design for the tunnel. Compliance with this condition will be reported on in the compliance reports.
E147	In developing the Fire Engineering Brief and Fire Engineering Report, the Proponent must undertake a detailed Fire Engineering Study in accordance with Australian Building Codes Board codes and guides, and Fire Safety Engineering Guidelines. Detailed design of the tunnel must incorporate the design and operational measures developed in the Fire Engineering Study to minimise the potential for, and effect of, fire and hazardous material incidents in the tunnel. The final design of the tunnel in relation to the fire and life safety features must be verified against the Fire Engineering Study in consultation with FRNSW by an Accredited Fire Engineer.	Construction	LSBJV	Not Yet Triggered	
E148	Prior to the opening of the project to traffic, a full audit of the fire and life safety system as defined by the Fire Engineering Study required by Condition E147 must be undertaken by an Accredited Fire Engineer. The objective of the audit must be to ensure that all design and operational measures outlined in the fire engineering study has been installed, are operational, and achieve the required design criteria. The results of the audit must be submitted to FRNSW prior to opening of the project to traffic. The Proponent must respond in writing to any recommendations resulting from the FRNSW review of the audit.	Pre-Operation	LSBJV	Not Yet Triggered	
E149	A detailed maintenance-testing program outlining the methods of testing the fire and life safety systems and schedule for implementation must be developed in consultation with FRNSW prior to opening of the project to traffic.  The Proponent must respond in writing to any recommendations made by FRNSW.	Pre-Operation	LSBJV	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E150	Maintenance testing of fire and life safety systems must be undertaken at least annually, or any other interval as required by the design engineer and in consultation of FRNSW.  Results of maintenance testing must be made available to FRNSW for review, and the Proponent must respond in writing to any recommendations from FRNSW to ensure the reliability of the fire and life safety systems.	Operation	SMC	Not Yet Triggered	
E151	The CSSI must be designed so that the following flooding characteristics are not exceeded on adjacent lands / properties:  (a) a maximum increase in inundation time of one hour in a 1 in 100 year ARI rainfall event;  (b) a maximum increase of 10 mm in inundation at properties where floor levels are currently exceeded in a 1 in 100 year ARI rainfall event;  (c) a maximum increase in 50 mm in inundation at properties where floor levels would not be exceeded in a 1 in 100 year ARI rainfall event; and  (d) no inundation of floor levels which are currently not inundated in a 1 in 100 year ARI rainfall event.	Pre-Construction and Construction	LSBJV	Open	A Flood Mitigation Strategy will be prepared in accordance with REMM FD01 which outlines the project approach to flood mitigation in accordance with the requirements of this condition. Design is ongoing and compliance with this condition will be reported in subsequent compliance reports.
E152	Flood information including flood reports, models and geographic information system outputs, and work as executed information from a registered surveyor certifying finished ground levels and the dimensions and finished levels of all structures within flood prone land, must be provided to the relevant council(s) and the SES. The relevant council(s) and the SES must be notified in writing that the information is available no later than one (1) month following the completion of construction and be provided with that information. Information requested by the relevant council(s) or the SES must be provided no later than six (6) months following the completion of construction or within another timeframe agreed with the relevant council(s) and the SES.	Operation	LSBJV	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E153	The Proponent must prepare a Flood Review Report(s) after the first defined flood event for any of the following flood magnitudes – the 5 year ARI event, 20 year ARI event, 100 year ARI event and probable maximum flood – to assess the actual flood impact against that predicted in the documents referred to in Condition A1. The Flood Review Report(s) must be prepared within three (3) months of each flood event. The report(s) must prepared by an appropriately qualified person(s) and include: (a) identification of the properties and infrastructure affected by flooding during the reportable event; (b) a comparison of the actual extent, level, velocity and duration of the flooding event against the impacts predicted in the documents referred to in Condition A1 and the requirements specified in Condition E151; and (c) where the actual extent and level of flooding exceed the predicted level and / or the requirements specified in Condition E151, with the consequent effect of adversely impacting on property(s), structures and infrastructure, identification of the measures to be implemented to reduce future impacts of flooding related to the CSSI works, including the timing and responsibilities for implementation.  Flood mitigation measures must be developed in consultation with the affected property / structure / infrastructure owners and the relevant council(s).  A copy of the Flood Review Report(s) must be submitted to the Secretary and relevant council(s) within one (1) months of finalising the report(s).	After first flood event	LSBJV	Not Yet Triggered	
E154	The Proponent must not destroy, modify or otherwise physically affect any heritage items, including human remains, outside of the CSSI boundary.	Pre-Construction, Construction, Operation	LSBJV	Open	Noted.
E155	The Proponent must not to harm, modify, or otherwise impact human remains uncovered during the construction of the CSSI.	Pre-Construction, Construction, Operation	LSBJV	Open	Noted.
E156	Identified impacts to heritage items and heritage conservation areas must be minimised through both detailed design and construction. The measures for ensuring this are to be detailed in the Construction Non-Aboriginal Heritage Management Sub-Plan and Aboriginal Cultural Heritage Management Sub-Plan required by Conditions C4(g) and (h), respectively.	Pre-Construction and Construction	LSBJV	Open	A NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007) (Table 2-1, Table 6-1, Table 7-4) as well as an Aboriginal Cultural Heritage Management Sub-Plan (ACHMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0008) (Table 6-1, Table 7-1) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent Construction and Pre-Operational Compliance Reports.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E157	I he Procedure must be included in the Construction Non-Aboriginal Heritage	Pre-Construction and Construction	LSBJV	Open	A NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007) (Section 7.3 and Appendix A) as well as an ACHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0008) (Appendix A) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported in subsequent Construction and Pre-Operational Compliance Reports.
E158	The Proponent must not destroy, modify or otherwise cause direct damage to the following items:	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E159	The Proponent must undertake a condition survey of the Southern Penstock and establish and maintain a suitable exclusion zone around the penstock for the duration of construction. The extent of the exclusion zone must be determined in consultation with the Heritage Division of OEH.	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E160	The Proponent must investigate the feasibility of retaining Cadden Le Messurier (84 Lilyfield Road), Former Hotel (78 Lilyfield Road) and the facade of the former Bank of NSW building (164 Parramatta Road) during detailed design.	Pre-Construction and Construction	LSBJV	Closed	A feasibility study into the retention of the Bank of NSW façade has been completed in accordance with this condition.
E161	Works on Whites Creek Stormwater Channel No. 95 must be undertaken in consultation with Sydney Water and a suitably qualified and experienced heritage consultant. The consultation process must include consultation on the final design and location of the works. All reasonable steps must be undertaken to ensure that the lateral extent and degree of impact to the canal fabric is minimised.	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.
E162	lexperienced built heritage expert must be obtained and implemented to ensure	Pre-Construction and Construction	LSBJV	Open	A NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007) (Table 7-4) has been prepared and will be implemented to assist in complying with this condition. No heritage items have needed acoustic treatment to date.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E163	The Proponent must prepare a Heritage Archival Recording and Salvage Report, including photographic recording of heritage items which have been identified for demolition in the documents referred to in Condition A1 and outline how any salvage or recovery of material will be undertaken from these items.  Archival recording must be undertaken by a suitably qualified heritage specialist and prepared in accordance with NSW Heritage Office's How to Prepare Archival Records of Heritage Items (1998) and Photographic Recording of Heritage Items Using Film or Digital Capture (2006).  Within 12 months of completing the archival recording, the Proponent must submit the Heritage Archival Recording and Salvage Report to the Secretary, relevant council(s), relevant local libraries and local historical societies in the respective local government area(s).	Pre-Construction and Construction	LSBJV	Open	A NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007) (Table 4-1, Table 6-1, Section 7.3.3) has been prepared and will be implemented to assist in complying with this condition. Preparation of the Heritage Archival Recording and Salvage Report is ongoing to which this PCCR applies. Compliance with this condition will be reported in subsequent Construction and Pre-Operational Compliance Reports.
E164		Pre-Construction and Construction	LSBJV	Open	Preparation of the Heritage Archival Recording and Salvage Report is ongoing. Compliance with this condition will be reported in subsequent Construction and Pre-Operational Compliance Reports.
E165	1 3	Pre-Construction and Construction	LSBJV	Not Yet Triggered	
E166	The Proponent must investigate options for utilising salvaged rail related infrastructure from the Rozelle Rail Yards into the landscaping of the Rozelle Rail Yards. How the items are to be used is to be detailed in the Urban Design and Landscape Plan required by Condition E133.	N/A	N/A	N/A	This requirement is not triggered for Mainline Tunnels works as it relates to the Rozelle Interchange package of works.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E167	The Proponent must prepare a Heritage Interpretation Plan, as committed to in the SPIR (NAH02) which identifies and interprets the key heritage values and stories of heritage items and heritage conservation areas impacted by the CSSI. The Heritage Interpretation Plan must include, but not be limited to:  (a) a discussion of the key interpretive themes, stories and messages proposed to interpret the history and significance of the affected heritage items and sections of heritage conservation areas; and (b) identification of interpretive initiatives implemented to mitigate impacts to archaeological relics, heritage items and conservation areas affected by the CSSI.	Pre-Construction and Construction	LSBJV	Not Yet Triggered	
E168	Excavation Director) to oversee and advise on matters associated with historic archaeology and to prepare an Historical Archaeological Research Design and Excavation Methodology.	Pre-Construction and Construction	LSBJV	Open	Three HARDEMS have been prepared and approved by the Heritage Division of OEH (as delegate of the Heritage Council of NSW) on 30 August 2018 (File No: SF18/59223 and Ref No: DOC18/545035). HARDEMs prepared are for White Bay, Pyrmont Bridge Road and Parramatta Road East & West. A NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007) (Table 6-2, Section 7.3.4 and Section 8.1) has been prepared and will be implemented to assist in complying with this condition.
E169		Pre-Construction and Construction	LSBJV	Open	Three HARDEMS have been prepared and approved by the Heritage Division of OEH (as delegate of the Heritage Council of NSW) on 30 August 2018 (File No: SF18/59223 and Ref No: DOC18/545035). HARDEMs prepared are for White Bay, Pyrmont Bridge Road and Parramatta Road East & West. A Non-Aboriginal Heritage Management Sub-Plan (Table 6-2, Section 7.3.4 and Section 8.1) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.
E170	Where excavation works are required in the vicinity of potential archaeological sites, the Excavation Director must be consulted to advise on how the works are to be managed and any archaeological impact minimised. The Excavation	Pre-Construction and Construction	LSBJV	Open	A NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007) (Table 6-2 and Table 7-4) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E171	Methodology or advice on unexpected finds from the Excavation Director have been met.	Pre-Construction and Construction	LSBJV	Not Yet Triggered	
E172	The Proponent must prepare an Archaeological Excavation Report containing the findings of any excavations, including artefact analysis and the identification of a final repository of any finds. The report must be submitted to the Secretary within 12 months of completing all archaeological investigations. The Archaeological Excavation Report must also be submitted to the Heritage Council of NSW, the local library and the local Historical Society in the relevant local government area(s). A copy of the Archaeological Excavation Report must be retained with the relics at all times.	Pre-Construction and Construction	LSBJV	Not Yet Triggered	
E173	The Proponent must take all reasonable steps so as not to harm, modify or otherwise impact any Aboriginal object associated with the CSSI except as authorised by this approval.	Pre-Construction Construction	LSBJV	Open	An ACHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0008) (Section 5, Table 7-1) has been prepared and will be implemented to assist in complying with this condition. Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.
E174	Icommunities to the greatest extent practicable. Impacted vegetation must be	Pre-Construction Construction	LSBJV	Open	This requirement has been addressed in the Flora and Fauna Management Plan (FFMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0003). Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.
E175	Prior to removing/clearing any vegetation, or demolition of structures identified as potential roosting sites for microbats, pre-clearing/demolition inspections for microbats and threatened species must be undertaken. The inspections, and any subsequent relocation of species and associated management/offset measures, must be undertaken under the guidance of a suitably qualified and experienced.	Pre-Construction Construction	LSBJV	Open	This requirement has been addressed in the FFMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0003). Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.
E176	The Proponent must prepare a Microbat Management Strategy in the case that microbats or evidence of roosting are identified during pre-clearing/demolition surveys. The strategy must detail short- and long-term measures to avoid, minimise and mitigate impacts to these species.	Pre-Construction Construction	LSBJV	Open	This requirement has been addressed in the FFMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0003). Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E177	The CSSI must be designed to retain as many trees as possible. Where trees are to be removed, the Proponent must provide a net increase in the number of replacement trees. Replacement trees must be planted within, and on public land up to 500 metres from the CSSI boundary. Replacement tree plantings can be undertaken beyond 500 metres on public land within the local government areas to which the CSSI approval applies if no more plantings are practicable within and up to 500 metres from the CSSI boundary. The location of the trees must be determined in consultation with the relevant authority(s).	Construction	LSBJV	Open	This requirement has been addressed in the FFMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0003) and will be addressed in the Urban Design and Landscape Plan. Design is ongoing and compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.
E178	Replacement trees are to have a minimum pot size of 75 litres except where the plantings are consistent with the pot sizes specified in a relevant authority's plans / programs / strategies for vegetation management, street planting, or open space landscaping, or as agreed by the relevant authority(s).	Construction	LSBJV	Not Yet Triggered	
E179	The Proponent must submit to the Secretary a report which details the type, size, number and location of replacement trees. The report must demonstrate how any replacement plantings with a pot size less than 75 litres are consistent with the requirements of Condition E178. The report must be submitted to the Secretary one (1) month prior to operation.	Construction	LSBJV	Not Yet Triggered	
E180	All reasonably practicable erosion and sediment controls must be installed and appropriately maintained to minimise any water pollution. When implementing such controls, any relevant guidance in the Managing Urban Stormwater series	Pre-Construction Construction	LSBJV	Open	The project will be designed and constructed to avoid water pollution. The Project Soil and Surface Water Management Subplan (SSWMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0005) which has been submitted to DPE for approval assists in meeting the requirements of this condition. Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.
E181	A Site Contamination Report, documenting the outcomes of Phase 1 and Phase 2 contamination assessments of land upon which the CSSI is to be carried out, that is suspected, or known to be, contaminated must be prepared by a suitably qualified and experienced person in accordance with guidelines made or approved under the Contaminated Land Management Act 1997 (NSW).	Pre-construction	LSBJV	Open	Site Contamination Reports documenting the outcomes of the Phase 1 and Phase 2 assessments of land which the Project is being carried out on are being progressively completed by suitably qualified and experienced environmental consultant(s) from Epic Environmental Pty Ltd in order to meet the requirements of CoA E181. Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.
E182	If a Site Contamination Report prepared under Condition E181 finds such land contains contamination, a site audit is required to determine the suitability of a site for a specified use. If a site audit is required, a Site Audit Statement and Site Audit Report must be prepared by a NSW EPA Accredited Site Auditor. Contaminated land must not be used for the purpose approved under the terms of this approval until a Site Audit Statement is obtained that declares the land is suitable for that purpose and any conditions on the Site Audit Statement have been complied with.	Pre-construction	LSBJV	Not Yet Triggered	
E183	A copy of the Site Audit Statement and Site Audit Report must be submitted to the Secretary and relevant council for information no later than one (1) month prior to the commencement of operation.	Pre-Operation	LSBJV	Not Yet Triggered	

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E184	An Unexpected Contaminated Land and Asbestos Finds Procedure must be prepared and must be followed should unexpected contaminated land or asbestos be excavated or otherwise discovered during construction.	Pre-Construction Construction	LSBJV	Open	An Unexpected Contaminated Land and Asbestos Finds Procedure (M4M5-LSBJ-PRW-EN-GE01-PRC-0001) was prepared to comply with CoA E184 and is a component of the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005). Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.
E185		Construction	LSBJV	Open	In accordance with this condition, the Unexpected Contaminated Land and Asbestos Finds Procedure (M4M5-LSBJ-PRW-EN-GE01-PRC-0001) which has been approved by the Secretary will be implemented throughout construction. Compliance with this condition will be reported on in Construction and Pre-Operation Compliance Reports.
E186	The CSSI construction water treatment plant discharge criteria must comply with the ANZECC (2000) 90 per cent species protection level unless an EPL is in force in respect to the CSSI. Discharge criteria for iron during construction must comply with the ANZECC (2000) recreational water quality criteria.	Construction	LSBJV	Open	A draft EPL has been issued that contain discharge criteria in accordance with the condition.
E187	The CSSI operational water treatment plant discharge criteria must comply with the ANZECC (2000) 95 per cent species protection level and a 99 per cent protection level for contaminants that bioaccumulate unless other discharge criteria are agreed in consultation with relevant stakeholders including EPA, DPI Water and Sydney Water. Discharge criteria for iron during operation must comply with the ANZECC (2000) recreational water quality criteria.	Pre-Operation	LSBJV	Not Yet Triggered	
E188	Drainage feature crossings (permanent and temporary watercourse crossings and stream diversions) and drainage swales and depressions must be undertaken in accordance with relevant guidelines and designed by a suitably qualified and experienced person.	Pre-Construction and Construction	LSBJV	Open	Design is ongoing and compliance with this condition will be reported in subsequent compliance reports.
E189	Works on waterfront land must be undertaken in accordance with DPI controlled activity guidelines.	Pre-Construction and Construction	LSBJV	Not Yet Triggered	
E190	The Proponent must take all practicable measures to limit operational groundwater inflows into each tunnel to no greater than one litre per second across any given kilometre (1L/s/km). Compliance with this condition cannot be	Construction and Operation	LSBJV	Not Yet Triggered	
E191	The Proponent must identify and commit to the implementation of 'make good' provisions for groundwater users in the event of a decline in water supply levels, quality and quantity from registered existing bores associated with groundwater changes from either construction and/or ongoing operational dewatering caused by the CSSI.	Construction and Operation	LSBJV	Open	Such details are provided in the Groundwater Management Plan (M4M5-LSBJ-PRW-EN-MP01-PLN-0006).

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E192	, , , ,	Pre-Operation and Operation	LSBJV	Open	Further modelling of groundwater drawdown has commenced in accordance with the requirements of this condition. The other measures will be complied with.
E193	The results of the groundwater modelling must be documented in a Groundwater Modelling Report. The Groundwater Modelling Report must be finalised in accordance with the Australian Groundwater Modelling Guidelines (National Water Commission, 2012) and prepared in consultation with DPI Water. The Groundwater Modelling Report must include, but not be limited to: (a) justification for layer choice; (b) specification and justification of the grid based hydraulic conductivity and storage parameters (specific yield and specific storage) assigned to each layer and/or zone with reference to those values determined from data analyses and the literature; (c) an explanation of how groundwater flow was simulated within each model layer with reference to confined, unconfined or variably saturated flow solutions; (d) an explanation and justification of the drain-cell conductance term(s) applied to the tunnel boundaries to limit tunnel inflows; (e) an explanation and justification of the groundwater recharge values applied across the model domain, including around the modelled specific yield values and the water table fluctuations observed within the monitoring data in response to rainfall-fed groundwater recharge; (f) details (including figures) of the expected changes in groundwater flow directions in the vicinity of landfills, groundwater wells and surface water receptors; (g) cross-section diagrams of geology showing baseline groundwater levels in the monitoring piezometers, and for the predicted baseline condition groundwater levels in 2030 and 2100; (h) statistical evaluation of the model's calibration; (i) details of the proposed groundwater model update and validation as	Construction	LSBJV	Not Yet Triggered	
E194	The groundwater model must be updated once 24 months of construction groundwater monitoring data are available and the results of the updated modelling provided to the Secretary and DPI Water in an updated Groundwater Modelling Report.	Construction	LSBJV	Not Yet Triggered	

CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E195	The Proponent must undertake further hydrological and hydraulic modelling based on the detailed design of the CSSI to determine the ability of the receiving drainage systems to effectively convey pavement drainage from the CSSI. The modelling must be undertaken in consultation with the relevant council(s) and Sydney Water and the outcomes documented in the Stormwater Drainage Report required under Condition E196.	Construction	LSBJV	Not Yet Triggered	
E196	Sydney Water drainage infrastructure; (b) identify all mitigation measures to be implemented where pavement drainage from the CSSI drainage systems is predicted to adversely impact on the receiving environment or capacity of council or Sydney Water drainage infrastructure; and	One month prior to the commencement of any new drainage works, modifications or connections to existing drainage works, or construction of hard surfaces that are associated with the operation	LSBJV	Open	Relevant design reports will be completed responding to the requirements of this condition.
E197	All new or modified drainage systems associated with the CSSI must be designed to:  (a) meet the capacity constraints of any council's drainage system to receive and convey the proposed flows from the CSSI, or otherwise upgrade council's drainage system at the Proponent's expense, in consultation with the relevant council(s);  (b) minimise impacts on the receiving environment at the final outflow point resulting from any additional flow volume (including, but not limited to scour, flooding, water quality impacts, and impacts on riparian vegetation, aquatic ecology and property); and  (c) ensure mitigation measures are implemented where increased flows through cross drainage systems adversely impact on council or Sydney Water drainage infrastructure and the receiving environment.	Design	LSBJV	Open	Noted. This condition will be complied with.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E198	The Proponent must prepare a Water Reuse Strategy which sets out options for the reuse of collected stormwater and groundwater during construction and operation of the CSSI. The Water Reuse Strategy must include, but not be limited to:  (a) evaluation of reuse options;  (b) details of the preferred reuse option(s), including volumes of water to be reused, proposed reuse locations and/or activities, proposed treatment (if required), and any additional licences or approvals that may be required; and (c) a time frame for the implementation of the preferred reuse option(s). The Water Reuse Strategy must consider public health risks from water recycling and must be managed to avoid misuse of recycled water as potable water. The Water Reuse Strategy must be undertaken following best practice and advice from sought from relevant agencies as required. Justification must be provided in the event that it is concluded that no reuse options prevail.  A copy of the Water Reuse Strategy must be submitted to the Secretary for approval prior to commencement of tunnelling works.  Nothing in this condition prevents the Proponent from preparing separate Water Reuse Strategies for the construction and operational phases of the CSSI. Where a separate Strategy is prepared for the operation of the CSSI, this must be submitted to the Secretary for approval at least six (6) months prior to the commencement of operation of the CSSI.	Pre-Construction	LSBJV	Open	A Water Reuse Strategy is being prepared for the Project to identify and implement water reuse opportunities during construction. The Water Reuse Strategy will be submitted to the Secretary for approval prior to commencement of tunnelling works and will be implemented throughout construction.  A separate Strategy will be prepared for the operation phase of the Project and will be submitted to the Secretary for approval at least six months prior to the commencement of operation. Compliance with this condition will be reported in subsequent Construction and Pre-Operational Compliance Reports.
E199	9	Pre-Construction Construction	LSBJV	Closed	A Sustainability Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0016) has been prepared and lodged with DPE that explains what steps will be taken by LSBJV to achieve the Excellent 'Design' and 'As Built' scores for the Design and Construction of the Project.
E200	The Sustainability Strategy must be submitted to the Secretary for information prior to the commencement of works, and must be implemented throughout construction and operation.	Pre-Construction	LSBJV	Closed	A Sustainability Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0016) has been prepared and lodged with DPE that explains what steps will be taken by LSBJV to achieve the Excellent 'Design' and 'As Built' scores for the Design and Construction of the Project.
E201	Opportunities to reduce operational greenhouse gas emissions must be investigated during detailed design. The sustainability initiatives identified must be implemented, reviewed, updated regularly throughout the design development and construction.	Pre-Construction Construction	LSBJV	Open	An Energy Efficiency and Greenhouse Gas Emissions Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0019) has also been prepared prior to construction as a component of the Sustainability Management Plan to address identify the actions to be taken by LSBJV to manage energy and carbon emissions emitted from construction activities. Design is ongoing and compliance with this condition will be reported in subsequent compliance reports.

СоА	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
E202	Waste generated during delivery of the CSSI is to be dealt with in accordance with the following priorities:  (a) waste generation is to be avoided and where avoidance is not reasonably practicable, waste generation is to be reduced;  (b) where avoiding or reducing waste is not possible, waste is to be re-used, recycled, or recovered; and  (c) where re-using, recycling or recovering waste is not possible, waste is to be treated or disposed of at a waste management facility or premise lawfully permitted to accept the materials or in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, or to any other place that can lawfully accept such waste.	Pre-Construction Construction	LSBJV	Open	A Waste Management Sub-Plan (WMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-00090) has been prepared, to satisfy requirements in condition C4(i) and has been addressed in Section 5.2 and Table 7-1 (W1). Compliance with this condition will be reported in subsequent compliance reports.
E203	Incrmitted by a licence or waste exemption linder the Protection of the	Pre-Construction Construction	LSBJV	Open	Noted.
E204	All waste generated during construction and operation must be classified in accordance with the EPA's Waste Classification Guidelines, with appropriate records and disposal dockets retained for audit purposes	Pre-Construction Construction Operation	LSBJV	Open	A WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-00090) has been prepared to satisfy requirements. Compliance with this condition will be reported in subsequent Construction and Pre-Operational Compliance Reports.

Appendix B Revised Compliance Table	<b>Environmenta</b>	Il Management	: Measures –
7   M4-M5 Link Mainline Tunnels	Pro-Construction Compli	ance Penert	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
TT01	A Construction Traffic and Access Management Plan (CTAMP) will be prepared as part of the CEMP. The CTAMP will include the guidelines, general requirements and principles of traffic management to be implemented during construction. It will be prepared in accordance with Austroads Guide to Road Design (with appropriate Roads and Maritime supplements), the RTA Traffic Control at Work Sites Manual and AS1742.3: Manual of uniform traffic control devices – Part 3: Traffic control for works on roads, and any other relevant standard, guide or manual. The CTAMP will be prepared in consultation with relevant transport stakeholders and local councils.  The overarching strategy of the CTAMP will be to:  - Ensure relevant stakeholders are considered during all stages of the project  - Provide safe routes for pedestrians and cyclists during construction  - Develop construction methodologies so that interaction with existing road users is minimised thereby creating a safer work and road user environment  - Plan and stage works to minimise the need for road occupancy, where possible  - Develop project staging plans in consultation with relevant traffic and transport stakeholders  - Minimise the number of changes to the road users' travel paths and, where changes are required, develop and implement an effective community communication strategy, coupled with temporary wayfinding signage to warn, inform and guide. This will aim to minimise confusion by providing clear and concise traffic management schemes  - Comprehensively communicate changes in traffic conditions to emergency services, public transport operators, other road user groups and any other affected stakeholders  - Identify measures to manage the movements of construction-related traffic to minimise traffic and access disruptions in the public road network  - Minimise the loss of on-road parking for local residents  Describe a car parking strategy for construction staff at the various worksites and ancillary facilities.	Construction	LSBJV	Open	A Traffic and Transport and Access Management Subplan (M4M5-LSBJ-PRW-EN-MP01-PLN-0001) (TTAMP) has been prepared to meet CoA C4(a) that fulfils the requirements of this REMM. Refer to Table 3-2 of the TTAMP for further details regarding the fulfillment of REMM requirements. The Project Construction Traffic and Transport and Access Management Sub-plan has been submitted to DPE for approval. The TTAMP has been prepared in consultation with the relevant stakeholder groups in accordance with CoA C4(a) and has been endorsed by the ER, RMS and SMC. The TTAMP is a sub-plan of the CEMP.
TT02	Identify potential road user delays during the planning and consultation phases and include strategies within the CTAMP to reduce identified delays.	Construction	LSBJV	Open	This requirement has been addressed in Section 3.4, 5 & 6.2 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).
TT03	Develop construction staging and temporary works that minimises conflicts with the existing road network and maximises spatial separation between work areas and travel lanes.	Construction	LSBJV	Open	This requirement has been addressed in Section 3.4 & 5 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
TT04	The car parking strategy described in the CTAMP will:  - Quantify construction workforce parking demand around project work sites and ancillary facilities during site establishment and the construction phase generally  - Identify public transport options and other management measures (such as carpooling and shuttle-buses) to reduce construction workforce parking demand  - Identify all locations that will be used for construction workforce parking (including potential use of government owned land and other potential areas near to the construction ancillary facilities)  - Identify potential offsite areas that could be used for construction workforce parking that would be investigated and secured for use during construction where required and possible  - Identify parking exclusion zones, in consultation with potentially affected stakeholders, around construction sites and facilities where construction workforce parking would be restricted.  The strategy will also be developed in consultation with the M4 East and New M5 contractors to identify opportunities to use existing parking arrangements associated with those projects during their respective construction periods and once those periods are completed.	Construction	LSBJV	Open	This requirement has been addressed in Section 4.6 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001) and in Section 3 and Section 4 of the Construction Parking and Access Strateg (CPAS) (M4M5-LSBJ-PRW-EMP01-PLN-0015) prepared in accordance with the CoAE54. This requirement has also been addressed in Section 4.1 of the Site Establishment Managemer Plan (SEMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
TT05	Isolate work areas from general traffic through the implementation of appropriate traffic and access controls.	Construction	LSBJV	Open	This requirement has been addressed in Section 3.4 & of the TTAMP (M4M5-LSBJ PRW-EN-MP01-PLN-0001).
TT06	Develop and implement work methods to minimise delays and road user impacts, for example utilising more efficient plant and equipment, and applying different design solutions.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.1.1 the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).
TT07	Provide temporary closed-circuit television (CCTV) and Variable Message Signs (VMS) in consultation with the Traffic Management Centre (TMC) to link with the existing TMC network to facilitate real time monitoring and management of impacts and traffic safety in the vicinity of the project.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.10 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).
TT08	During construction, work with the TMC to improve traffic conditions around work and incidents from CCTV footage and modify sites wherever practicable.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.10 cthe TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).
TT09	Provide a mechanism for the community to report incidents and delays, for example a project phone number. Advertise details along the construction site's interface with the road network.	Construction	LSBJV	Open	This requirement has been addressed in Section 6.2.5 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).
TT10	Schedule construction-related transport movements to avoid peak traffic periods and minimise project-related congestion, where possible.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.2 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).

	Environmental management measure				Comments / Evidence	
REMMs Ref		Timing	Responsibility	Compliance Status		
TT11	Develop and adopt robust community and stakeholder communication protocols regarding altered traffic conditions.	Construction	LSBJV	Open	This requirement has been addressed in Section 6.2 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001). This requirement has been addressed in Section 3, Section 4 and Section 5 of the Community Communications Strategy (CCS) (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004).	
TT12	Minimise impacts on the pedestrian paths and cycle lanes, and provide timely alternatives during construction where practical and safe to do so.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.7 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).	
TT13	Identify impacts on bus stops and provide alternative locations and access in consultation with Transport for NSW.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.8 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).	
TT14	Manage local road closures and maintain adequate property access. This will be undertaken in consultation with Roads and Maritime, local councils and property owners likely to be impacted.	Construction	LSBJV	Open	This requirement has been addressed in Section 4.5 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).	
TT15	Identify spoil haulage routes and designated routes for other project-related heavy vehicles and communicate, along with site access requirements and restrictions, to all relevant drivers. Designated heavy vehicle routes will be identified with consideration of potentially affected stakeholders, such as schools, day care centres, nursing homes and places of worship, around project sites that might be adversely affected by project-related heavy vehicle movements. Routes and associated restrictions of use of the routes will be developed to minimise identified potential impacts. Project-related heavy vehicle routes and any associated restrictions of use will be documented in the CTAMP.	Construction	LSBJV	Open	This requirement has been addressed in Section 4.7 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).	
TT16	Develop and implement a truck management strategy (as part of the CTAMP) that:  - Identifies truck marshalling areas that will be used by project-related heavy vehicles  - Describes management measures for project-related heavy vehicles to avoid queuing and site-circling in adjacent streets and other potential traffic and access disruptions  - Describes monitoring programs to demonstrate that project-related heavy vehicles are complying with the strategy.	Construction	LSBJV	Open	This requirement has been addressed in Section 4.7.2, 4.8, 6.3 & 6.4 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001).	
TT17	Monitor and manage project-related heavy vehicle movements to and from sites with the aim of limiting any associated increases in road traffic noise levels during the night-time period to no more than 2 dBA. Any increases in road traffic noise of more than 2 dBA due to project-related vehicle movements will be managed in accordance with the Construction Noise and Vibration Guideline (Roads and Maritime 2016).	Construction	LSBJV	Open	This requirement has been addressed in Section Table 8-1 (NV4) of the Noise and Vibration Management Subplan (NVMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0002).	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
TT18	Prepare a road dilapidation report, in consultation with relevant councils and road owners, identifying existing conditions of local roads and mechanisms to repair damage to the road network caused by heavy vehicle movements associated with the project.	Construction	LSBJV	Open	This requirement has bee addressed in Section 5.3 of the TTAMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0001). This requirement has also been addressed in Section 4.1.1 and Appendix A (2) of the SEMP (M4M5-LSBJ-PREN-MP01-PLN-0018).
TT19	Roads and Maritime will continue to consult with the Port Authority of NSW and other stakeholders as appropriate to ensure coordination between the operation of the White Bay civil site (C11) and other relevant projects in the vicinity, including existing operations associated with port activities.	Pre-Construction	RMS/LSBJV	Open	RMS and LSBJV are continuing to liaise with F Authority in relation to thuse of the C11 civil site.
TT20	An Active Transport Network Implementation Strategy will be prepared for the project. The strategy will be consistent with the Active transport strategy in Appendix N of the EIS. The strategy will be prepared in consultation with relevant councils and Bicycle NSW and implemented prior to the commencement of project operations or as otherwise agreed to by the Secretary of NSW Department of Planning and Environment.	Operation	LSBJV	Not Yet Triggered	
OpTT1	A review of operational network performance will be undertaken 12 months and five years from the Opening of the project to confirm the operational impacts of the project on surrounding arterial roads and major intersections in proximity to the Wattle Street interchange, Rozelle interchange and St Peters interchange. The assessment will be based on updated traffic surveys at the time and the methodology used will be comparable with that used in this assessment. The results of the review will be considered in future operational network performance planning carried out by Roads and Maritime.	Operation	LSBJV	Not Yet Triggered	
ОрТТ2	To manage potential performance constraints at the Wattle Street interchange, Roads and Maritime will investigate the implementation of the following in consultation with local councils:  - Queuing and capacity monitoring and management on the Frederick Street/Milton Street corridor  - Managing lane use and utilisation to improve the operation of the corridor.	Pre-Construction Construction	RMS	Open	RMS is progressing the review through the Netv Integration team.
ОрТТ3	Roads and Maritime will develop a strategy to ensure appropriate network integration in the areas surrounding the Rozelle interchange. The strategy will include a review of:  - Capacity improvement measures  - The interface with road based public transport on the Western Distributor and Victoria Road in consultation with Transport for NSW  - Project staging options  - Demand management measures.	N/A	N/A	N/A	This requirement is not triggered for the Mainlin Tunnels works. It is a requirement for the Roze Interchange works.
AQ1	A Construction Air Quality Management Plan will be developed and implemented to monitor and manage potential air quality impacts associated with the construction for the project. The management plan will include controls required to reduce the emission of dust out of the door Openings of acoustic sheds. The Plan will be implemented for the duration of construction.	Construction	LSBJV	Open	An Air Quality Managem Sub-Plan (AQMP)(M4M8 LSBJ-PRW-EN-MP01-PLM 0004) has been prepared meet CoA C4(d) and fulf the requirements of this REMM. The AQMP has be submitted to DPE for approval.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
AQ2	Regular communication to be carried out with other WestConnex projects under construction in close proximity to ensure that measures are in place to manage cumulative dust impacts.	Construction	LSBJV	Not Yet Triggered	
AQ3	Regular site inspections will be conducted to monitor potential dust issues. The site inspections, required actions and Open issues will be recorded and actioned appropriately within agreed timeframes by relevant project personnel.	Construction	LSBJV	Not Yet Triggered	
AQ4	Construction activities with the potential to generate dust will be modified or ceased during unfavourable weather conditions to reduce the potential for dust generation.	Construction	LSBJV	Not Yet Triggered	
AQ5	Measures to reduce potential dust generation, such as the use of water carts, sprinklers, dust screens and surface treatments, will be implemented within project sites as required.	Construction	LSBJV	Not Yet Triggered	
AQ6	Access roads within project sites will be maintained and managed to reduce dust generation.	Construction	LSBJV	Not Yet Triggered	
AQ7	Where reasonable and feasible, appropriate control methods will be implemented to minimise dust emissions from the project site.	Construction	LSBJV	Not Yet Triggered	
AQ8	Storage of materials that have the potential to result in dust generation will be minimised within project sites at all times.	Construction	LSBJV	Not Yet Triggered	
AQ9	All construction vehicles and plant will be inspected regularly and maintained to ensure that they comply with relevant emission standards.	Construction	LSBJV	Not Yet Triggered	
AQ10	Engine idling will be minimised when plant is stationary, and plant will be switched off when not in use to reduce emissions.	Construction	LSBJV	Not Yet Triggered	
AQ11	The use of mains electricity will be favoured over diesel or petrol-powered generators where practicable to reduce site emissions.	Construction	LSBJV	Not Yet Triggered	
AQ12	Haul roads will be treated with water carts and monitored during earthworks operations, ceasing works if necessary during high winds where dust controls are not effective.	Construction	LSBJV	Not Yet Triggered	
AQ13	Suitable dust suppression and/or collection techniques will be used during cutting, grinding or sawing activities likely to generate dust in close proximity to sensitive receivers.	Construction	LSBJV	Not Yet Triggered	
AQ14	The potential for dust generation will be considered during the handling of loose materials. Equipment will be selected and handling protocols developed to minimise the potential for dust generation.	Construction	LSBJV	Not Yet Triggered	
AQ15	All loaded spoil haulage trucks and other project-related heavy vehicles carrying materials with the potential to result in dust generation will be covered to prevent dust emissions during transport in accordance with relevant road regulations.	Construction	LSBJV	Not Yet Triggered	
AQ16	Demolition activities will be planned and carried out to minimise the potential for dust generation.	Construction	LSBJV	Open	This requirement has been addressed in Table 6-1 (AQ16) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0004). This requirement has also been addressed in Appendix A (3 and 10) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
AQ17	Adequate dust suppression will be applied during all demolition works required to facilitate the project.	Construction	LSBJV	Open	This requirement has been addressed in Table 6-1 (AQ17) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0004). This requirement has also been addressed in Appendix A (3 and 10) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
	All potentially hazardous material will be identified and removed from buildings in an appropriate manner prior to the commencement of and/or progressively during demolition and in accordance with all relevant codes of practice	Construction	LSBJV	Open	This requirement has also been addressed in Appendix A (4 and 11) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
	Areas of soil exposed during construction will be minimised at all times to reduce the potential for dust generation.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (AQ18) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0004).
	Exposed soils will be temporarily stabilised during weather conditions conducive to dust generation and prior to extended periods of inactivity to minimise dust generation.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (AQ19) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0004).
	Exposed soils will be permanently stabilised as soon as practicable following disturbance to minimise the potential for Open dust generation.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (AQ20) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0004).
AQ22	Ensure that stockpiles of materials with the potential to result in dust emissions are adequately protected and managed to reduce potential dust generation.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (AQ25) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0004).
AQ23	Ensure fine materials are stored and handled to minimise dust.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (AQ21) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0004).
	All sealed surfaces within sites and site accesses will be managed to reduce dust generation and sediment tracking onto roads	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (AQ22) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0004).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
AQ25	At the commencement of establishment of project ancillary facilities, controls such as wheel washing systems and rumble grids will be installed at all site exits to prevent deposition of loose material on sealed surfaces outside project sites to reduce potential dust generation.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (AQ23) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0004). This requirement has been addressed in Table 6-1 (SSWMM15) of the Soil and Surface Water Management Sub-plan (SSWMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0005).
AQ26	Tunnel infrastructure will be designed in such a way that the generation of pollutant emissions by the traffic using the tunnel is minimised. The main considerations are minimising gradients and ensuring that lane capacity remains constant or increases from entry to exit point.	Construction	LSBJV	Open	Detailed Design is Open and compliance with this condition will be reported in subsequent compliance reports.
AQ27	An in-tunnel air quality monitoring system will be included in the detailed design. The system will monitor oxides of nitrogen, nitrogen dioxide, carbon monoxide and visibility (as a minimum) throughout the tunnel.  Monitoring of each pollutant will be undertaken throughout the tunnel. The locations of monitoring equipment will generally be at the beginning and end of each ventilation section. This will include, for example, monitors at each entry ramp, exit ramp, merge point and ventilation exhaust and supply point. The location of monitors will be governed by the need to meet the in-tunnel air quality criteria for all possible journeys through the tunnel system, especially for nitrogen dioxide. This will require sufficient, appropriately placed monitors to calculate a journey average.	Construction and operation	LSBJV	Not Yet Triggered	
AQ28	Air velocity monitors will be placed in each tunnel ventilation section and at portal entry and exit points. The specific location of air velocity monitors will be subject to the detailed design of the project. The velocity monitors in combination with the air quality monitors will be used to modulate the ventilation within the tunnel to manage air quality and to ensure net air inflow at all tunnel portals.	Construction	LSBJV	Not Yet Triggered	
AQ29	Ambient air quality monitoring will be carried out in the vicinity of the ventilation outlets installed as part of the project. Monitoring will occur at key representative locations, identified in consultation with an independent air quality specialist and an Air Quality Community Consultative Committee (AQCCC), to allow direct comparison of measured ambient air quality with dispersion model predictions. The monitoring will commence at least 12 months prior to and continue for at least two years following the commencement of operation. Monitoring results and a comparison of monitoring results against dispersion model predictions and relevant ambient air quality criteria will be made publicly available.	Construction and Operation	LSBJV	Not Yet Triggered	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
NV1	A suitably qualified and experienced Acoustics Advisor, who is independent of the design and construction personnel, will be engaged for the duration of construction of the project. The Acoustics Advisor will be responsible for:  - Reviewing management plans related to noise and vibration and endorsing that they address all relevant conditions of approval and requirements of all applicable guidelines  - Reviewing location and activity specific noise and vibration impact assessments prepared during the project and endorsing the assessments and proposed mitigation measures  - Reviewing proposals regarding works outside standard construction hours, confirming that the works are appropriate and endorsing the proposed mitigation measures  - Monitoring noise and vibration from construction generally and:  - Confirming that actual noise and vibration levels and impacts are consistent with predictions  - Confirming that reasonable and feasible noise and vibration measures are being implemented  - Suggesting additional reasonable measures to further reduce impacts  - Monitoring and providing advice in relation to compliance with conditions of approval and project commitments related to noise and vibration  - Providing advice in relation to complaints regarding noise and vibration impacts that cannot be resolved between the complaint and the project  - Reviewing and endorsing the proposed operational noise controls, the associated noise model and the proposed implementation program		LSBJV	Compliant	LSBJV and SMC nominated the Acoustics Advisor (AA) for the Project, and have provided the relevant information regarding the AA to DPE for consideration and approval. DPE approved the appointment of the AA, Mr John Hutchison of Hutchison Weller Pty Ltd as Acoustics Advisor (AA) more than one month prior to the commencement of works on the 20th June 2018.
NV2	A Construction Noise and Vibration Management Plan (CNVMP) will be prepared for the project. The plan will:  - Identify relevant performance criteria in relation to noise and vibration  - Identify noise and vibration sensitive receivers and features in the vicinity of the project  - Include standard and additional mitigation measures from the Construction Noise and Vibration Guideline (CNVG) (Roads and Maritime 2016) and details about when each will be applied  - Describe the process(as) that will be adopted for carrying out location and activity specific noise and vibration impact assessments to assist with the selection of appropriate mitigation measures  - Include protocols that will be adopted to manage works required outside standard construction hours in accordance with relevant guidelines  - Detail monitoring that will be carried out to confirm project performance in relation to noise and vibration performance criteria.  The CNVMP will be implemented for the duration of construction of the project.	Construction	LSBJV	Open	A NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) has been prepared to meet CoA C4(b) and fulfils the requirements of this REMM. Refer to Table 3-2 of the NVMP for further details regarding the fulfillment of REMM requirements. The NVMP forms Appendix B2 of the CEMP (M4M5-LSBJ-PRW-GEN-MP01-PLN-0003). The NVMP was submitted to DPE for approval. The NVMP has been prepared in consultation with the relevant stakeholder groups (EPA, Inner West Council and City of Sydney Council) in accordance with CoA C4 (b). The NVMP has been endorsed by the ER, RMS and SMC.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
NV3	Detailed noise assessments will be carried out for all ancillary facilities required for construction of the project. The assessment will consider the proposed site layouts and noise generating activities that will occur at the facilities and assess predicted noise levels against the relevant noise management levels determined in accordance with the requirements of the Interim Construction Noise Guideline (ICNG) (NSW Department of Environment and Climate Change NSW (DECC) 2009). The assessments will be used to determine the appropriate heights and configurations of noise barriers, and other appropriate noise management measures, consistent with the requirements of the ICNG and the CNVG. Noise barriers, as confirmed through the noise assessments, will be installed as early as possible during site establishment and as a minimum prior to the commencement of excavation associated with tunnel access.	Construction	LSBJV	Open	This requirement has been addressed in Section 7.1 of the NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) and the Construction Noise and Vibration Impact Statement (CNVIS) (M4M5-LSBJ-MUI-EN-NV01-RPT) prepared in accordance with CoA E79. This requirement has also been addressed in Section 4.3 of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
NV4	Location and activity specific noise and vibration impact assessments will be carried out prior to (as a minimum) activities:  - With the potential to result in noise levels above 75 dBA at any receiver  - Required outside standard construction hours likely to result in noise levels greater than the relevant noise management levels  - With the potential to exceed relevant performance criteria for vibration.  The assessments will clarify predicted impacts at relevant receivers in the vicinity of the activities to assist with the selection of appropriate management measures, consistent with the requirements of ICNG and CNVG that will be implemented during the works.	Construction	LSBJV	Open	This requirement has been addressed in Section 7.1 of the NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) and the CNVIS (M4M5-LSBJ-MUI-EN-NV01-RPT)
NV5	An out-of-hours works protocol will be developed for the construction of the project. The protocol will include:  - Details of works required outside standard construction hours, including justification of why the activities are required outside standard construction hours  - Measures that will be implemented to manage potential impacts associated with works outside standard construction hours  - Location and activity specific noise and vibration impact assessment process(es) that will be followed to identify potentially affected receivers, clarify potential impacts and select appropriate management measures  - Details of the approval process (internal and external) for works proposed outside standard construction hours.  The protocol will be included in the CNVMP, prepared in consultation with NSW Department of Planning and Environment and the NSW EPA, endorsed by the Acoustics Advisor for the project and implemented during construction of the project.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.4 of the NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) and Out of Hours Works Protocol (OOHW Protocol) (M4M5-LSBJ-PRW-EN-GE01-PRC-0003) located in the NVMP.
NV6	Monitoring will be carried out at the commencement of activities for which a location and activity specific noise and vibration impact assessment has been prepared to confirm that actual noise and vibration levels are consistent with noise and vibration impact predictions and that the management measures that have been implemented are appropriate.	Construction	LSBJV	Open	This requirement has been addressed in Table 8-1 (NV17) of the NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) and in the Construction Noise and Vibration Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0011) located in the NVMP.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
NV7	Acoustic sheds will be designed with consideration of the activities that will occur within them and the relevant noise management levels in adjacent areas. Monitoring will be carried out to confirm that the actual acoustic performance of each shed is consistent with predicted acoustic performance.	Construction	LSBJV	Open	This requirement has been addressed in Table 8-1 (NV19) of the NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002) and in the Construction Noise and Vibration Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0011) located in the NVMP. Design and shed procurement is Open and compliance with this condition will be reported in subsequent compliance reports.
NV8	A Blast Management Strategy will be prepared and implemented for the project if blasting is proposed. The strategy will:  - Identify relevant performance criteria in relation to potential noise and vibration impacts due to blasting with reference to (as a minimum) Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration (Australian and New Zealand Environment Conservation Council (ANZECC), 1990) and Australian Standard AS 2187.2-2006 Explosives -Environmental management measure Timing Storage, transport and use, Part 2: Use of explosives - Describe trials that will be carried out to confirm vibration levels from blasting and facilitate development of predictive tools to allow potential noise and vibration impacts to be identified - Include details of management measures that will be implemented to ensure compliance with relevant performance criteria - Include details of community consultation requirements prior to commencing blasting.  The Blast Management Strategy will be implemented for all blasting carried out as part of the project.	Construction	LSBJV	N/A	Not Triggered - Blasting is not currently proposed. This REMM will be reconsidered if Blasting is proposed for the Project during construction and a Blasting Management Strategy will be prepared.
NV9	Receivers that qualify for assessment for at receiver treatment in relation to operational noise that are also predicted to experience significant exceedances of noise management levels due to construction will be given priority preference for assessment for treatment based on the severity and timing of impact. Where the building owner accepts the at receiver treatment proposal, the treatments will be installed as soon as possible.	Construction	LSBJV	Not Yet Triggered	
NV10	Where reasonable and feasible, operational noise mitigation such as noise barriers, berms and at-property treatments identified during detailed design should be installed early in the project so as to provide a benefit to receivers during the construction phase of the project.	Construction	LSBJV	Not Yet Triggered	
NV11	Open Graded Asphalt (OGA) or equivalent will be investigated during detailed design taking into account whole life engineering considerations and the overall social, economic and environmental effects. If low noise pavement is found to be appropriate, it will be considered as a management measure when assessing operation noise impacts based on the detailed design.	Construction	LSBJV	Not Yet Triggered	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
NV12	The area in the vicinity of the western portal of the Iron Cove Link, Rozelle, will be assessed further during development of the detailed design to identify appropriate noise mitigation measures to address predicted increases in road traffic noise to the project. The measures that will be considered will include low road noise pavement, noise barriers, at-property treatments and the project design.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
NV13	Potential operational noise performance of the project based on the detailed design will be assessed in accordance with NSW Road Noise Policy (DECCW 2011) and appropriate management measures will be confirmed and implemented.	Construction	LSBJV	Not Yet Triggered	
NV14	Within 12 months of the commencement of the operation of the project, actual operational noise performance will be compared to predicted operational noise performance. The need for any additional management measures to address any identified operational performance issues and meet relevant operational noise criteria will be assessed and implemented where reasonable and feasible.	Operation	LSBJV	Not Yet Triggered	
PL1	Land acquisition for the project will be undertaken in accordance with the Land Acquisition (Just Terms Compensation) Act 1991 (NSW) and the Roads and Maritime Services Land Acquisition Information Guide (Roads and Maritime 2014) and the land acquisition reforms announced by the NSW Government in 2016.	Pre-Construction	RMS	Open	RMS has undertaken acquisition in accordance with this requirement.
PL2	Access to all properties will be maintained during construction, where feasible and reasonable, unless otherwise agreed by the relevant property owner or occupier. Any access physically affected by the project will be reinstated to at least an equivalent standard, unless agreed with by the property owner.	Construction	LSBJV	Not Yet Triggered	
PL3	A Residual Land Management Plan will be prepared in consultation with relevant local councils and other key stakeholders. The plan will:  - Identify and illustrate all remaining project land following construction of the project, including the physical location, land use characteristics, size and adjacent land uses  - Identify feasible uses for remaining project land including justification for the selected use  - Identify timeframes for implementation of the actions in relation to the identified feasible uses.	Pre-Operation	RMS	Not Yet Triggered	
PL4	Existing residential properties (and residential developments approved prior to project approval) that are affected by overshadowing from the final detailed design of the project (including any noise mitigation measures) are to receive a minimum of three hours of direct sunlight in habitable rooms and in at least 50 per cent of the principal private Open space area between 9.00 am and 3.00 pm on 21 June. Such properties must be identified for further consideration by the Proponent in a Solar Access and Overshadowing Report which addresses compliance with these requirements:  - Where existing residential development currently receives less than the required amount of solar access, existing access to sunlight during operation should not be unreasonably reduced  - Where affected properties include dwellings held under strata or community title, these requirements must be interpreted in relation to individual units within those properties.	Construction	LSBJV	Not Yet Triggered	
PL5	Detailed design of the ventilation facility building at the Iron Cove Link motorway operations complex (MOC4) will include consideration of treatments to minimise overshadowing on properties south of Victoria Road. This may include reducing the height of the building and/or increasing building setbacks or recessing the building.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
PL6	Ground settlement will be managed to comply with the following criteria where possible:  * As defined in Burland et al. 'Building response to tunnelling – Case Studies from construction of the Jubilee Line Extension', London, Thomas Telfor (2001)	Construction and Operation	LSBJV	Open	Detailed Design is Open and compliance with this condition will be reported in subsequent compliance reports.
PL7	Further assessment of potential settlement impacts, including numerical modelling, will be undertaken during detailed design. In areas where ground movement in excess of settlement criteria are is predicted, an instrumentation and monitoring program to measure settlement, distortion or strain will be implemented. feasible and reasonable measures will be investigated and implemented to ensure where possible that the predicted settlement is within the criteria. Measures that will be considered may include (but are not limited to):  - Review of the proposed tunnel design including:  - the depth and alignment of tunnels  - the proximity of multiple tunnels to each other  - the proposed tunnel support system  - the tunnel lining to manage groundwater inflows  - Rationalising the layout of the proposed ventilation tunnels including the number, location and length of tunnels  - Review of the proposed construction methodology  - Consideration of ground improvement options.	Construction	LSBJV	Open	Detailed Design is Open and compliance with this condition will be reported in subsequent compliance reports.
PL8	A Settlement Monitoring Program will be prepared that will provide details on:  - Settlement criteria and predictions  - Location of monitoring points  - Duration of monitoring  - Data collection (type and method)  - Comparison of actual settlement with predictions  - Triggers and corrective actions that will be implemented if, based on monitoring results, actual settlement is likely to exceed predictions or the relevant criteria, with the aim of complying with the criteria.  The Settlement Monitoring Program will be endorsed the Independent Property Impact Assessment Panel (see PL11) prior to the commencement of any construction activities with the potential to result in settlement, as determined by the panel, unless otherwise agreed to by the Secretary.	Construction	LSBJV	Open	Detailed Design is Open and compliance with this condition will be reported in subsequent compliance reports.
PL9	Settlement monitoring will be carried out for the period in accordance with the program starting prior to commencement of tunnel construction through to until all settlement has stabilised following completion of tunnel construction. The results of settlement monitoring will be compared to predicted settlement. The implementation and adequacy of the Settlement Monitoring Program will be monitored by the Independent Property Impact Assessment Panel	Construction and Operation	LSBJV	Open	Detailed Design is Open and compliance with this condition will be reported in subsequent six monthly compliance reports.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
PL10	Building condition surveys will be offered to property owners within the zone of influence of tunnel settlement (50 metres from the outer edge of the tunnels and within 50 metres of surface works) or as otherwise directed by the Independent Property Impact Assessment Panel (see PL11). Building condition surveys of properties will be carried out prior to the commencement of any project works in the vicinity that have the potential to result in damage to the properties, as identified by the contractor and confirmed by the Independent Property Impact Assessment Panel. Building condition surveys will be carried out by a structural engineer	Construction	LSBJV	Open	Condition Surveys will be offered to Stakeholders within the identified 50m radius zone of influence of construction works (both surface & tunnelling) in accordance with this condition. This requirement has been addressed in Table 7-4 (NAH 9) of the Non-Aboriginal Heritage Management Sub-plan (NAHMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0007). Compliance with this condition will be reported in subsequent compliance reports.
PL11	An Independent Property Impact Assessment Panel, will be established prior to the commencement of works with the potential to result in ground movement and settlement or damage due to vibration. The panel will be responsible for:  - Independently reviewing the building condition survey process and checking that reports are adequate to assist with any property damage disputes  - Resolving any property damage disputes  - Endorsing the Settlement Management Program and monitoring its implementation and Open adequacy  The panel will include at least one specialist with experience with ground movement and settlement due to excavations.	Construction	LSBJV	Open	A process has commenced in order to comply with the requirements of this condition.
PL12	Interface agreements will be entered into with the owners of infrastructure and utility services likely to be impacted by construction of the project. The agreements will likely identify:  - Minimum separation distances and appropriate settlement criteria for utility infrastructure  - Settlement monitoring requirements during construction  - Contingency actions in the event that settlement limits are exceeded.	Construction	LSBJV	Open	This requirement has been addressed in Section 4 of the Utilities Management Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0017). Compliance with this condition will be reported in subsequent compliance reports.
PL13	In the event that damage occurs to a property as a result of the construction of the project, the damage will be appropriately rectified. Any disputes between a property or infrastructure owners regarding damage and rectification will be referred to the Independent Property Impact Assessment Panel (see PL11) for resolution.	Construction	LSBJV	Not Yet Triggered	

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
PL14	The Utilities Management Strategy (Appendix F of the EIS) will be implemented.	Construction	LSBJV	Open	A Utilities Management Strategy (M4M5-LSBJ-PRV EN-MP01-PLN-0017) has been prepared to meet th requirements of this REMI Compliance with this condition will be reported subsequent compliance reports.
UD1	Prepare an Urban Design and Landscape Plan (UDLP) permanent built works and landscaping in consultation with relevant councils, stakeholders and the community. The construction of permanent built works will not commence until the element is included in a suitably prepared and approved UDLP, unless otherwise agreed to by the Secretary.	Construction	LSBJV	Open	In accordance with CoA E <sup>-</sup> a Urban Design and Landscape Plan (UDLP) wi be prepared. Design is Op and compliance with this condition will be reported subsequent construction compliance and pre- operation reports.
UD2	Specific design measures at construction ancillary facilities to prevent crime, based on principles of Crime Prevention Through Environmental Design (CPTED), will be identified and implemented at each facility prior to the commencement of facility operation.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported subsequent six monthly construction compliance pre-operation reports. The requirement has also been addressed in Section 4.5 of the SEMP (M4M5-LSBJ-PFEN-MP01-PLN-0018).
UD3	Specific design measures at surface operational infrastructure will be identified and implemented to prevent crime, based on principles of CPTED, will be identified and implemented at each facility prior to the commencement of facility operation.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported subsequent construction compliance and preoperation reports.
UD4	Wayfinding signage for the road infrastructure will be developed to the satisfaction of Roads and Maritime. Consultation will occur with the relevant local council regarding road signs for council roads. Signage for road infrastructure will be installed prior to the commencement of operation.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported subsequent six monthly construction compliance a pre-operation reports.

	Environmental management measure				Comments / Evidence	
REMMs Ref		Timing	Responsibility	Compliance Status		
UD5	Establish an Urban Design Review Panel to provide advice and input into the development of the UDLP and associated subplans. Where an UDLP is required to address heritage matters, the panel will include an independent heritage architect.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent construction compliance and preoperation reports.	
LV1	Ancillary facilities, including the locations of visible structures and plant and perimeter fencing and treatments, will be developed to minimise visual impacts for adjacent receivers where feasible and reasonable. Measures to minimise visual impacts for adjacent receivers will be implemented progressively during the site establishment phase.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent construction compliance and preoperation reports.	
LV2	Site lighting will be designed to minimise glare issues and light spillage in adjoining properties and will be generally consistent with the requirements of Australian Standard 4282-1997 Control of the obtrusive effects of outdoor lighting.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent construction compliance and preoperation reports.	
LV3	Regular maintenance of site hoarding and perimeter site areas should be undertaken, including the prompt removal of graffiti and litter.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent construction compliance and preoperation reports.	
LV4	Construction worksites and construction ancillary facilities will be established in such a manner as to minimise the need to remove screening vegetation wherever practicable.	Construction	LSBJV	Open	This requirement has also been addressed in Appendix A (66) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).	
LV5	Hoardings and temporary noise walls will be erected as early as possible within the site establishment phase to provide visual screening.	Construction	LSBJV	Open	This requirement has also been addressed in Appendix A (66) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).	
LV6	Acoustic sheds will be designed to be visually recessive and minimise potential overshadowing impacts where possible.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
LV7	Where necessary, construction lighting will comply with the requirements of the Civil Aviation Safety Authority (CASA) and Sydney Airport at all times.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports. This requirement has also been addressed in Section 5.2.8 and Appendix A (1) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
LV8	Visible elements of operational facilities will be designed to satisfy functional requirements and adopt the design principles detailed in the M4-M5 Link Urban Design Report. The proposed designs will be documented in the relevant UDLP for the project.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
LV9	The slopes of vegetated batters that form part of the final urban design and landscaping solution will be limited to no more than 1:4 where possible in order to maximise the impact of vegetation on these batters and minimise maintenance.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
LV10	Where construction ancillary facilities are located in close proximity to sensitive residential receivers such as residents and users of recreational space, high quality fencing suitable for parks and public spaces should be considered.	Construction	LSBJV	Open	This requirement has also been addressed in Appendix A (66) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
LV11	Investigate options for planting of vegetation to screen residents on the southern side of Darley Road from the Darley Road motorway operations complex. Include feasible and reasonable measures in the relevant UDLP.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
LV12	Architectural design and detailing of the water treatment facility, substation and front fencing should achieve articulation, visual interest, and integrate with the streetscape.	Construction	LSBJV	Open	Design is Open and compliance with this condition will be reported in subsequent compliance reports.
LV13	Integrate the new Open space at Rozelle with the Lilyfield Road streetscape through considered street tree planting and associated landscape works in accordance with Austroads guidelines.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
LV14	Implement urban design and landscape measures that allow permeable views between the City West Link carriageway and the new Open space to provide a sense of Openness and connection with the Open space for motorists and the community.	Construction	LSBJV	Open	Design is Open and compliance with this condition will be reported in subsequent compliance reports.
LV15	Investigate measures to minimise view impacts of the project to sensitive residential receptors in the vicinity of the Rozelle Rail Yards as described in this assessment and include in the relevant UDLP where reasonable and feasible.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
LV16	Develop a design that aims to incorporate the ventilation outlets at the Rozelle Rail Yards as an integral component of the larger Open space composition, with reference and consideration to the Ventilation Facility Design Review (Annexure 2 of Appendix L (Technical working paper: Urban design)).	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
LV17	Consult with Urban Growth NSW regarding the interface between the project footprint and the White Bay Power Station precinct. Design the interface to optimise compatibility between the two areas from a landscaping, visual, heritage and active transport connectivity perspective.	Construction	LSBJV	Open	Design is Open and compliance with this condition will be reported in subsequent compliance reports.
LV18	Investigate options to retain the mature trees of high retention value adjacent to the light rail corridor at the corner of The Crescent and City West Link and to provide screen planting alongside the retaining wall edge of the light rail corridor, to minimise landscape and visual impacts. Implement options where feasible and reasonable with consideration of site constraints.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
LV19	Investigate vegetative and other screening measures along Victoria Road to improve the visual amenity of the streetscape and reduce impacts associated with the ventilation outlet and increased glare from the portals to residential dwellings to the north of Victoria Road. Reasonable and feasible landscaping measures will be included in the relevant UDLP.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
LV20 LV21	[Deleted] The UDLP sub-plan for the area adjoining Campbell Road motorway operations complex is to be consistent with the New M5 St Peters Interchange Recreational Area Sub-plan	[Deleted]			Design is open and compliance with this
		Construction	LSBJV	Open	confinence with this condition will be reported in subsequent compliance reports.
LV22	Investigate measures during detailed design to reduce the height, bulk, scale and enhance the landscape setting of the ventilation outlets, subject to achieving desired ventilation outcomes, and in accordance with the design principles detailed in the M4-M5 Link Urban Design Report.	Construction	LSBJV	Open	Design is Open and compliance with this condition will be reported in subsequent compliance reports.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
SE1	A Business Management Plan will be prepared and will include:  - Identification of businesses that have the potential to be adversely affected by construction activities that will occur as part of the project  - Management measures that will be implemented to maintain appropriate vehicular and pedestrian access to businesses and business clusters during business hours and to maintain visibility of the businesses and communicate access arrangements to potential customers during construction, including alternative arrangements for times when access and visibility cannot be maintained. These will be determined in consultation with the owners of the identified businesses.	Construction	LSBJV	Open	A Business Management Plan is being prepared in accordance with the requirements of this REMM. Compliance with this condition will be reported in subsequent compliance reports.
SE2	A Community Communication Strategy will be prepared that details:  - Procedures and mechanisms that will be implemented in response to the key social impacts identified for the project  - Property acquisition support services that will be provided  - Procedures and mechanisms to communicate to project stakeholders (including affected communities), the access and connectivity enhancements and new community and social facilities that will be delivered as part of the project through the Social Infrastructure Plan and to update stakeholders on delivery progress  - Procedures and mechanisms that will be used to engage with affected business owners to identify potential access, parking, business visibility and other impacts to develop measures to address potential impacts on a case by case basis.	Construction	LSBJV	Open	A CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004) has been prepared in accordance with CoA B1 and has been lodged with DPE for approval and meets the requirements of this REMM.
SE3	Property acquisition will continue to be undertaken in accordance with the Roads and Maritime Services Land Acquisition Information Guide (Roads and Maritime 2014), the Land Acquisition (Just Terms Compensation) Act 1991 (NSW) and the land acquisition reforms announced by the NSW Government in 2016 (NSW Government 2016). A property acquisition factsheet that outlines the process and provides further information for concerned residents will continue to be made available online and in hard copy at project information centres.	Pre-Construction Construction	RMS	Open	Property acquisition continues to be undertaken by RMS in accordance with the requirements of SE3, noting the majority of property acquisition has been completed for Mainline Tunnels to date.
SE4	Affected households will continue to have access to a counselling service that assists people through the property acquisition process.	Construction	LSBJV	Open	This requirement has been addressed in Section 8.8 of the CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004).
SE5	An independent service will continue to be provided to vulnerable households (eg elderly, those suffering an illness) to assist with relocation. Assistance could include finding a suitable house for relocation, arranging removalists, disconnecting services and attending appointments with solicitors or other representatives.	Construction	LSBJV	Open	This requirement has been addressed in Section 6.4 and Section 8.8 of the CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004).
SE6	A community relations support toll-free telephone line will be operated to respond to any community concerns or requests for translation services.	Construction	LSBJV	Open	This requirement has been addressed in Section 6.4 and Section 8.8 of the CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004).
SE7 OSE8	N/A A Social Infrastructure Plan will be prepared that details:	N/A			This requirement has been
UJEO	<ul> <li>- Measures that will be delivered as part of the project to improve community connectivity in areas affected by the project, including pedestrian and cyclist access</li> <li>- Community and social facilities, for example Open space, that will be delivered or enhanced as part of the project</li> <li>- Community initiatives and programs that will receive support as part of the project, including the manner in which support will be provided.</li> <li>The Social Infrastructure Plan will be prepared by a suitably qualified and experienced person in consultation with the</li> </ul>	Construction and Operation	LSBJV	Open	addressed in Section 9.4 of the CCS (M4M5-LSBJ-PRW- GEN-MP01-PLN-0004)

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
SW01	A Construction Soil and Water Management Plan (CSWMP) will be prepared for the project. The plan will include the measures that will be implemented to manage and monitor potential surface water quality impacts during construction. The CSWMP will be developed in accordance with the principles and requirements in Managing Urban Stormwater – Soils and Construction, Volume 1 (Landcom 2004) and Volume 2D (NSW Department of Environment, Climate Change and Water 2008), commonly referred to as the 'Blue Book'.	Construction	LSBJV	Open	A SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005) has been prepared to meet CoA C4(e) and fulfils the requirements of this REMM. This plan has been lodged to DPE for approval.
SW02	A program to monitor potential surface water quality impacts due to the project will be developed and included in the CSWMP. The program will include the water quality monitoring parameters and the monitoring locations identified in Annexure E of Appendix Q (Technical working paper: Surface water and flooding) to the EIS where appropriate. The monitoring program will commence prior to any ground disturbance to establish appropriate baseline conditions and continue for the duration of construction and until the affected waterways are rehabilitated to an acceptable condition as certified by a suitably qualified and experienced independent expert (or as otherwise required by any project conditions of approval). Further details to be included in the program are outlined in Appendix Q (Technical working paper: Surface water and flooding) of the EIS.	Construction	LSBJV	Open	A Surface Water Quality Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN- 0013) has been prepared to meet CoA C9(a) and fulfils the requirements of this REMM. This plan has been lodged to DPE for approval.
SW03	Erosion and Sediment Control Plans (ESCPs) will be prepared for all work sites in accordance with the Blue Book. ESCPs will be implemented in advance of site disturbance and will be updated as required as the work progresses and the sites change.	Construction	LSBJV	Open	Erosion and Sediment Control Plans (ESCPs) are being prepared for the Muirs, SPI and PBR sites in accordance with the Blue Book and implemented in advance of site disturbance and will be updated as required as the work progresses and the sites change. This requirement has been addressed in Table 6-1 (SSWMM4) of the SSWMP (M4M5-LSBJ-PRW- EN-MP01-PLN-0005)
SW04	A soil conservation specialist will be engaged for the duration of construction to provide advice regarding erosion and sediment control.	Construction	LSBJV	Not Yet Triggered	A soil conservation specialist will be engaged for the duration of construction to provide advice regarding erosion and sediment control. This requirement has been addressed in Table 6-1 (SSWMM9) of the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005)

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
SW05	The extent of ground disturbance and exposed soil will be minimised to the greatest extent practicable to minimise the potential for erosion.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (SSWMM11) of the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005)
SW06	Disturbed ground and exposed soils will be temporarily stabilised prior to extended periods of site inactivity to minimise the potential for erosion.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (SSWMM12) of the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005)
SW07	Disturbed ground and exposed soils will be permanently stabilised and proposed landscaped areas will be suitably profiled and vegetated as soon as possible following disturbance to minimise the potential erosion.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Table 6-1 (SSWMM13) of the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005)
SW08	The proposed bridge crossing over and widening of Whites Creek, including all associated temporary and permanent infrastructure, will be designed and constructed in a manner consistent with:  - Controlled Activities on Waterfront Land, Guidelines for watercourse crossings on waterfront land (NSW Department of Primary Industries (DPI) 2012)  - Why do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (Fairfull and Witheridge 2003)  - Policy and Guidelines for Fish Friendly Waterway Crossings (NSW Fisheries February 2004)  - Policy and Guidelines for Fish Habitat Conservation and Management Update 2013 (DPI-Fisheries 2013).  - Appropriate fish passage will be provided for crossings of fish habitat streams.	Construction	LSBJV	Not Yet Triggered	Design is open and compliance with this condition will be reported in subsequent compliance reports.
SW09	Consultation will be undertaken with Sydney Water regarding the timing of the works at Whites Creek and compatibility of the proposed design and Sydney Water's naturalisation works.	Construction	LSBJV	Not Yet Triggered	Design is open and compliance with this condition will be reported in subsequent compliance reports.
SW10	Temporary construction water treatment plants will be designed and managed so that treated water will be of suitable quality for discharge to the receiving environment. An ANZECC (2000) species protection level of 90 per cent is considered appropriate for adoption as discharge criteria for toxicants where practical and feasible. The discharge criteria for the treatment facilities will be included in the CSWMP.	Construction	LSBJV	Open	Design is Open and compliance with this condition will be reported in subsequent compliance reports.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
SW11	Procedures, prepared in accordance with the requirements of the Acid Sulfate Soil Manual (Acid Sulfate Soil Management Advisory Committee 1998), will be included in the CSWMP and implemented in the event that acid sulfate soils, rocks or monosulfidic black oozes are encountered during construction of the project.	Construction	LSBJV	Open	This requirement has been addressed in Table 6-1 (SSWMM20) and in Appendix A - Contaminated Land Management Plan (CLMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0021) within the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005). Within the Contaminated Land Management Plan this requirement is specifically addressed within Table 7-1 (C1) and the Appendix A - Unexpected Contaminated Lands and Asbestos Finds Procedure (M4M5-LSBJ-PRW-EN-GE01-PRC-0001).
OSW12	Stormwater from the project during operation will be treated prior to discharge. Where space is available, bioretention systems or constructed wetlands will be installed. Where space is not available, other smaller devices, such as proprietary stormwater treatment devices, will be installed. The final design of treatments will be supported by MUSIC modelling and water sensitive urban design principles.	Construction and Operation	LSBJV	Not Yet Triggered	
OSW13	Maintenance requirements for all stormwater treatment systems and devices installed as part of the project will be identified and included in relevant operational maintenance schedules/systems.	Construction and Operation	LSBJV	Not Yet Triggered	Design is open and compliance with this condition will be reported in subsequent compliance reports.
OSW14	Spill containment will be provided on the motorway. Spill management and emergency response procedures will be documented in the Operation Environmental Management Plan (OEMP) and/or Emergency Response Plan.	Construction and Operation	LSBJV	Not Yet Triggered	
OSW15	The constructed wetland at the Rozelle interchange will be appropriately designed considering Water Sensitive Urban Design Principles to cater for the continuous release of treated groundwater from the water treatment plant and onsite stormwater flows and lined to prevent potential interaction with groundwater.	Construction and Operation	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
OSW16	The operational water treatment facilities will be designed and managed such that effluent will be of suitable quality for discharge to the receiving environment. Opportunities to incorporate nutrient treatment within the plant at Darley Road will be investigated during detailed design.  Discharge criteria will be developed in accordance with the ANZECC (2000) and relevant NSW WQOs, including the following discharge criteria:  - 0.3 milligrams per litre for iron - 1.9 milligrams per litre for manganese.  The discharge criteria for the treatment facilities will be nominated during detailed design in consultation with relevant stakeholders and included in the OEMP.		LSBJV	Not Yet Triggered	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
OSW17	New discharge outlets will be designed with appropriate energy dissipation and scour protection measures as required to minimise the potential for sediment disturbance and resuspension in the receiving waters. Outlet design and energy dissipation/scour protection measures will be informed by drainage modelling.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
OSW18	Existing drainage outlets that will be subject to increased inflow from the project will be assessed. If necessary, energy dissipation or scour protection will be added to prevent sediment disturbance and resuspension in receiving waters.	Construction	LSBJV	Not Yet Triggered	Design is open and compliance with this condition will be reported in subsequent compliance reports.
CM01	Potentially contaminated areas directly affected by the project will be investigated and managed in accordance with the requirements of guidance endorsed under section 105 of the Contaminated Land Management Act 1997 (NSW) (CLM Act). This includes further investigations in areas of potential contamination identified in the project footprint. If contamination posing a risk to human or ecological receptors is identified, a Remediation Action Plan will be prepared.	Construction	LSBJV	Open	This requirement has been addressed in the CLMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0021) in Section 6, Table 7-1 (C2) and in the Unexpected Contaminated Lands and Asbestos Finds Procedure (M4M5-LSBJ-PRW EN-GE01-PRC-0001).
CM02	Asbestos handling and management will be undertaken in accordance with an Asbestos Management Plan (or similar) prepared in accordance with relevant legislation, regulations and codes of practice) as described in Chapter 23 (Resource use and waste minimisation) of the EIS.	Construction	LSBJV	Open	This requirement has been addressed in the CLMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0021) in Table 7-1 (C3), Unexpected Contaminated Land and Asbestos Finds Procedure (M4M5-LSBJ-PRW EN-GE01-PRC-0001) and Asbestos Management Plan (M4M5-LSBJ-PRW-EN-GE01-PRC-0009). This requirement has been addressed in Section 5.2.3 and Table 7-1 (W21 and W22) of the Waste Management Subplan (WMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0009).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
CM03	A hazardous materials assessment will be carried out prior to and during the demolition of buildings. Demolition works will be undertaken in accordance with the relevant Australian Standards and relevant NSW WorkCover Codes of Practice, including the Work Health and Safety Regulation 2011 (NSW).	Construction	LSBJV	Open	Noted. Hazardous materials assessments for the Project will be carried out prior to and during the demolition of buildings and conducted in accordance with the relevant Australian Standards and relevant NSW WorkCover Codes of Practice. This requirement has been addressed in Table 7-1 (W5) of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009). This requirement has also been addressed in the CLMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0021), Unexpected Contaminated Land and Asbestos Finds Procedure (M4M5-LSBJ-PRW-EN-GE01-PRC-0001) and Asbestos Management Plan (M4M5-LSBJ-PRW-EN-GE01-PRC-0009)
CM04	The Construction Waste Management Plan for the project, prepared as described in Chapter 23 (Resource use and waste minimisation) of the EIS, will include procedures for handling and storing potentially contaminated substances.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.2.3, Table 5-5 and Table 7-1 (W21) of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009). This requirement has been addressed in the CLMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0021) in Table 7-1 (C5) and Section 8.3.
CM05	Stockpile management procedures will be implemented to control dust, odour and cross contamination.	Construction	LSBJV	Not Yet Triggered	

	Environmental management measure				Comments / Evidence	
REMMs Ref		Timing	Responsibility	Compliance Status		
CM06	The discovery of previously unidentified contaminated material will be managed in accordance with an unexpected contaminated lands discovery procedure, as outlined in the Guideline for the Management of Contamination (Roads and Maritime 2013) and detailed in the CEMP. The procedure will include:  - Cease work in the vicinity  - Initial assessment by an appropriately qualified environmental consultant  - Further assessment and management of contamination, if confirmed, in accordance with section 105 of the CLM Act.	Construction	LSBJV	Not Yet Triggered		
CM07	A Construction Soil and Water Management Plan will be prepared for the project including procedures to minimise the interaction of stormwater with contaminated land, including acid sulfate soils, and manage potentially contaminated stormwater runoff, as described in Chapter 15 (Soil and water quality) of the EIS.	Construction	LSBJV	Open	A SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005) has been prepared to meet CoA C4(e) and fulfils the requirements of this REMM. This plan has been lodged to DPE for approval.	
CM08	Measures identified in Chapter 25 (Hazard and risk) of the EIS will be implemented to appropriately store contaminated materials and materials with the potential to cause contamination and reduce the potential for environmental contamination due to spills and leaks.	Construction	LSBJV	Not Yet Triggered		
OpCM01	Procedures to address spills, leaks and tunnel washing will be developed as part of an OEMP and implemented during operation of the project.	Operation	LSBJV	Not Yet Triggered		
FD01	A Flood Mitigation Strategy will be prepared by a suitably qualified and experienced person in consultation with directly affected landowners, DPI-Water, State Emergency Services (SES), Sydney Water and the relevant local councils. It will include but not be limited to:  ② Identification of flood risks to the project and adjoining areas, including consideration of local drainage catchment assessments and climate change implications on rainfall, drainage and tidal characteristics ② Identification of design and mitigation measures to protect proposed operations and not worsen existing flooding characteristics during construction and operation, including soil erosion and scouring ② Identification of drainage system upgrades ② The 100 year annual recurrence interval (ARI) flood level will be adopted in the assessment of measures which are required to mitigate flood risk to the project, as well as any adverse impacts on surrounding property ② Changes in flood behaviour under probable maximum flood (PMF) conditions will also be assessed in order to identify impacts on critical infrastructure and significant changes in flood hazards as a result of the project ③ Consideration of limiting flooding characteristics to the following levels:  - A maximum increase in inundation time of one hour in a 100 year ARI rainfall event  - No inundation of floor levels which are currently not inundated in a 100 year ARI rainfall event  - A maximum increase of 10 mm in inundation at properties where floor levels will not be exceeded in a 100 year ARI rainfall event	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.	
FD02	Hydrologic and hydraulic assessments will be carried out for all temporary project components (including ancillary facilities) and permanent design features that have the potential to affect flood levels in the vicinity of the project. The results of the assessment will inform the preparation of the Flood Mitigation Strategy (FD01) as well as the design development of temporary and permanent works.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
FD03	Measures developed to manage potential flood impacts, as identified in the Flood Mitigation Strategy, will be incorporated into the design of temporary and permanent project components and construction and operational management systems as relevant.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
FD04	All entries (portals) into the tunnels will be designed so that they are located above the peak level of the PMF or the 100 year ARI design flood plus 0.50 metres, whichever is greater. The same hydrological standard will be applied to tunnel ancillary facilities such as tunnel ventilation and emergency response facilities, electrical substations and water treatment plants.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
FD05	Bridge crossings over existing waterways and proposed drainage channels will be designed for the underside of bridge structure to be above the peak 100 year ARI design flood level.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
FD06	The need to maintain flood conveyance will be factored into construction planning associated with the new bridge structure over Whites Creek.	Construction	LSBJV	Open	Design is Open and compliance with this condition will be reported in subsequent six monthly compliance reports.
FD07	Parts of the site that will be adversely affected by floodwaters, such as tunnel dive shafts, portals and cut and cover sections, will be protected from floodwater ingress during construction. The flood level adopted for design of temporary protection will be informed by consideration of both mainstream and local overland flows, the potential risk to the environment, safety and the potential disruption and damage to project works.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports.
FD08	The Pyrmont Bridge Road tunnel site (C9) will be designed with consideration of and to appropriately manage the existing surface water flow path on Bignell Lane.	Construction	LSBJV	Open	This requirement has also been addressed in Section 4.9 and Section 5.2.1 of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
FD09	The permanent surface water conveyance solution within the Rozelle Rail Yards will be implemented as soon as possible.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
FD10	Flood contingency measures will be prepared and implemented where construction ancillary facilities and vulnerable temporary facilities (including fuel storages, water treatment plants and substations) are located in the 20 year ARI design flood extent.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
FD11	Further hydrological and hydraulic modelling based on the detailed design will be undertaken to determine the ability of the receiving drainage systems to effectively convey drainage discharges from the project once operational. The modelling must be undertaken in consultation with the relevant council(s). It will include, but not be limited to:  - Confirming the location, size and capacity of all receiving drainage systems affected by the operation of the project  - Assessing the potential impacts of drainage discharges from the project drainage systems on the receiving drainage systems  - Identifying all feasible and reasonable mitigation measures to be implemented where drainage from the project is	1	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports.
FD12	Where drainage systems are to be upgraded or replaced during the project, existing systems will be left in place and remain operational during the process wherever possible.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Section 4.7 of the Utilities Management Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0017).
FD13	Runoff generated from project construction and operational facilities and discharges from water treatment facilities will be managed to mitigate risk of overloading the receiving drainage system.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Table 6-1 (SSWMM51) of the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005). This requirement has been addressed in Section 4.7 of the Utilities Management Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0017).
FD14	Entry points to the stormwater used by or immediately downgradient from the project sites will be inspected regularly for blockages and cleaned as required to maintain performance.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Table 6-1 (SSWMM52) of the SSWMP (M4M5-LSBJ-PRW-EN-MP01 PLN-0005)

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
FD15	Hydrological and hydraulic assessments of the permanent design will consider the climate change related flood risk to the project and flood impacts from the project, and will confirm requirements for any management measures. The assessment will be undertaken in accordance with the Practical Considerations of Climate Change – Floodplain Risk Management Guideline (DECC 2007).	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has also been addressed in Section 4.8.4 of the Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021).
FD16	Where peak levels in the 100 year ARI design flood are predicted to increase at any residential, commercial and/or industrial buildings due to construction or operation of the project, a floor level survey will be carried out. If the survey indicates flood impacts in excess of the limits set in FD01, further refinements will be made to the temporary or permanent designs as required to minimise impacts.		LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports.
FD17	A Flood Review Report will be prepared after the first defined flood event affecting the project works for any of the following flood magnitudes – the five year ARI event, 20 year ARI event and 100 year ARI event - to assess the actual flood impact against those predicted in the design reports or as otherwise altered by the FMS. The Flood Review Report(s) must be prepared by an appropriately qualified person(s) and include:  - Identification of the properties and infrastructure affected by flooding during the reportable event  - A comparison of the actual extent, level, velocity and duration of the flooding event against the impacts predicted in the design reports or as otherwise altered by the FMS  - Where the actual extent and level of flooding exceeds the predicted level with the consequent effect of adversely impacting of property(ies), structures and infrastructure, identification of the measures to be implemented to reduce future impacts of flooding related to the M4-M5 Link project including the timing and responsibilities for implementation.  Flood mitigation measures will be developed in consultation with the affected property, structure and/or infrastructure owners, OEH and the relevant council(s).	Construction and Operation	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports.

	Environmental management measure				Comments / Evidence
EMMs Ref		Timing	Responsibility	Compliance Status	
B1	A Construction Flora and Fauna Management Plan (CFFMP) will be developed and implemented during construction. The CFFMP will include the following:  - Identification of guidelines relevant to construction, the matters they apply to and what is required to ensure compliance  - Pre-disturbance inspection requirements to identify features of biodiversity conservation significance and select appropriate management measures and environmental controls  - Management measures and environmental controls to be implemented before and during construction including:  - An unexpected threatened species finds procedure  - Section 3.3.2 Standard precautions and mitigation measures of the Policy and Guidelines for Fish Habitat Conservation and Management Update 2013 (DPI-Fisheries 2013)  - Tree assessment and management protocols consistent with AS 4970-2009 Protection of trees on development sites  - Weed management protocols.  The plan will include management measures outlined in Appendix S (Technical paper: Biodiversity) and from any additional assessments carried out during detailed design and project delivery as relevant.	Construction	LSBJV	Open	A Flora and Fauna Management Sub-Plan (FFMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0003) has been prepared to meet Co. C4(c) and fulfils the requirements of this REMN This plan has been lodged to DPE for approval.
B2	Prior to the commencement of any works associated with the modification of the Victoria Road bridge, an inspection will be carried out by a suitably qualified and experienced ecologist to confirm the presence of roosting microbats. If roosting microbats are identified, measures to manage potential impacts will be developed in consultation with an appropriate microbat expert and included in the CFFMP prior to the commencement of any work with the potential to disturb the roosting locations (as confirmed by the microbat expert).	Construction	LSBJV	N/A	N/A - Not within Project scope
B3	The proposed road bridge at Whites Creek will be designed with consideration of Policy and Guidelines for Fish Habitat Conservation Update 2013 (DPI-Fisheries 2013) and Why do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (NSW-Fisheries 2003).	Construction	LSBJV	N/A	N/A - Not within Project scope
B4	Site-specific Erosion and Sediment Control Plans (ESCPs) will be prepared for each work location associated with or in the vicinity of waterways and culverts that will be modified as part of the project. The ESCPs will contain measures to stabilise all surfaces disturbed as a result of the project as soon as possible following the disturbance to prevent erosion and to minimise sedimentation in adjacent aquatic environments.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.2.2 the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005)
B5	The CFFMP will include measures to manage potential impacts on trees. Measures will include:  - The establishment of tree protection zones  - Ground protection measures for trees to be retained.	Construction	LSBJV	Open	This requirement has been addressed in Table 6-2 (FF5 FF6, FF10 and FF15) of the FFMP (M4M5-LSBJ-PRW-EN MP01-PLN-0003) and in the Early Works & Ground Disturbance Permit located in Appendix A of the FFMP.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
B6	As many trees as possible will be retained during construction. In the event that tree removal cannot be avoided, a tree replacement strategy will be prepared. Replacement trees will be included in the relevant UDLP. Opportunities for the provision of replacement trees outside the project boundary will be investigated in consultation with local councils.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Table 6-2 (FF27) of the FFMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0003) as well as in the Urban Design and Landscape Plan.
В7	The CFFMP will include tree management protocols and provision for the development of tree management plans (in accordance with the requirements of AS 4970-2009) where required for specific trees. Protection of trees on development sites will be carried out in consultation with an arborist with a minimum Australian Qualifications Framework (AQF) Level 5 qualification in arboriculture for each tree proposed for retention where works associated with the project have the potential to impact on the tree root zone.	Construction	LSBJV	Open	This requirement has been addressed in Table 6-2 (FF14 and FF15) of the FFMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0003)
В8	Tree removal, pruning and maintenance work will be carried out by an arborist with a minimum AQF Level 3 qualification in accordance with AS 4373-2007 Pruning of Amenity Trees and the NSW WorkCover Code of Practice for the Amenity Tree Industry (1998) and advice provided by an arborist with a minimum AQF Level 5 qualification in arboriculture (or equivalent).	Construction	LSBJV	Open	This requirement has been addressed in Table 6-2 (FF9) of the FFMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0003)
OB9	The UDLP will include compensatory planting for trees removed by the project. The plan will include:  - A tree replacement strategy  - Species recommendations for the landscape design to consider, including foraging trees for the Grey-headed Flying-fox  - Relevant project specific rehabilitation and revegetation measures associated with the M4 East and New M5 projects, where there is an overlap in use of project footprint.	Operation	LSBJV	Open	This requirement will be addressed in the Urban Design and Landscape Plan.
OB10	Consultation will be undertaken with Sydney Water regarding integration of naturalisation works at Whites Creek, including re-establishment of vegetation where possible following construction activities. Vegetation re-establishment will be undertaken in accordance with Guide 3: Re-establishment of native vegetation of the Biodiversity Guidelines: Protecting and Management Biodiversity on RTA Projects (NSW Roads and Traffic Authority 2011).	Operation	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
GW1	Groundwater inflows within the tunnels will be minimised by designing the final tunnel alignment to minimise intersections with known paleochannels and alluvium present in the project footprint.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
GW2	Appropriate waterproofing measures will be identified and included in the detailed design to permanently, where reasonable and feasible, reduce the inflow into the tunnels to below one litre per second per kilometre for any kilometre length of the tunnel.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
GW3	Appropriate measures will be investigated and implemented at dive structures and shafts and for cut-and-cover sections of the tunnel to minimise groundwater inflow.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
GW4	Further assessment of the risk posed by the presence of sulfate reducing bacteria and groundwater aggressively will be undertaken prior to construction. A corrosion assessment will be undertaken by the construction contractor to assess the impact on building materials that may be used in the tunnel infrastructure such as concrete, steel, aluminium, stainless steel, galvanised steel and polyester resin anchors. The outcomes of the corrosion assessment will be considered when selecting building materials likely to encounter groundwater.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
GW5	In accordance with the Aquifer Interference Policy (DPI-Water 2012), measures will be taken to 'make good' the impact on an impacted water supply bore by restoring the water supply to pre-development levels. The measures taken will be dependent upon the location of the impacted bore but could include, for example, deepening the bore, providing a new bore or providing an alternative water supply.	Construction	LSBJV	Not Yet Triggered	This requirement has been addressed in Section 5.2.3 and Table 6-1 (GWMM10) of the Groundwater Management Sub-Plan (GMP) (M4M5-LSBJ-PRW-ENMP01-PLN-0006).
GW6	Potential impacts associated with subsurface components of the project intercepting and altering groundwater flows and levels will be considered during detailed design. Measures to reduce potential impacts will be identified and included in the detailed construction methodology and the detailed design as relevant.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Table 6-1 (GWMM3) of the GMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0006).
GW7	A detailed groundwater model will be developed by the construction contractor during detailed design. The model will be used to predict groundwater inflow rates and volumes within the tunnels and groundwater levels (including drawdown) in adjacent areas during construction and operation of the project.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Table 6-1 (GWMM4 and GWMM9) of the GMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0006).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
GW8	Groundwater inflow within and groundwater levels in the vicinity of the tunnels will be monitored during construction and compared to model predictions and groundwater performance criteria applied to the project. The groundwater model will be updated based on the results of the monitoring as required and proposed management measures to minimise potential groundwater impacts adjusted accordingly to ensure that groundwater inflow performance criteria are met	Construction	LSBJV	Not Yet Triggered	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Table 6-1 (GWMM5 and GWMM9) of the GMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0006) as well as Section 4.2.2, Section 4.2.4 and Section 6.5 of the Groundwater Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0014).
GW9	Further investigations will be carried out to identify areas where groundwater inflows to the tunnels are likely to be elevated, to guide the development of the detailed design and construction methodology. The investigations will be carried out prior to the commencement of excavations with the potential to result in groundwater inflow at each identified location.	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Table 6-1 (GWMM6) of the GMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0006)
OGW9	A groundwater monitoring program will be prepared and implemented to monitor groundwater inflows in the tunnels and groundwater levels as well as groundwater quality in the three main aquifers and inflows during construction.  The program will identify groundwater monitoring locations, performance criteria in relation to groundwater inflow and levels and potential remedial actions that will be considered to address any non-compliances with performance criteria. As a minimum, the program will include manual groundwater level and quality monitoring monthly and inflow volumes and quality weekly. The monitoring program will be developed in consultation with the NSW EPA, DPI-Fisheries, DPI Water, City of Sydney Council and Inner West Council.	Construction	LSBJV	Open	A GMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0006) has been prepared to meet CoA C9(b) and C12 and fulfils the requirements of this REMM. The Groundwater Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0014) has been developed in consultation with the NSW EPA, DPI-Fisheries, DPIWater, City of Sydney Council and Inner West Council. The Groundwater Monitoring Program has been attached to the GMP (Appendix A). This plan has been lodged to DPE for approval.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
OGW10	The groundwater monitoring program prepared and implemented during construction will be augmented and continued during the operational phase. Groundwater will be monitored during the operations phase for three years or as otherwise required by the project conditions of approval and will include trigger levels for response or remedial action based on monitoring results and relevant performance criteria.  At least three monitoring wells and vibrating wire piezometers (VWPs) should be constructed as close as possible to the tunnel centrelines to allow for the comparison of pore pressures and standing water levels. The wells could be constructed about 5-10 metres above the top of the tunnel crown to allow for groundwater drawdown monitoring in the Hawkesbury Sandstone.  The program will include procedures for monitoring and reporting of extracted groundwater volumes to DPI-Water annually for the duration of construction and operation, unless otherwise agreed to or directed by the Secretary. The operational groundwater monitoring program will be developed in consultation with the NSW EPA, , DPI-Water and relevant councils and documented in the OEMP or EMS.	Operation	SMC	Not Yet Triggered	
OGW11	Where the corrosion assessment that will be carried out prior to construction indicates potential issues, corrosion and other associated impacts of highly aggressive groundwater on the tunnel infrastructure will be monitored during operations. The monitoring program will be documented in the OEMP or EMS. Corroded or otherwise impacted infrastructure will be repaired or replaced as required to maintain operational integrity of the road infrastructure.	Operation	LSBJV	Not Yet Triggered	
OGW12	In accordance with the NSW Aquifer Interference Policy (DPI-Water 2012), measures will be taken to 'make good' the impact on an impacted water supply bore by restoring the water supply to predevelopment levels. The measures taken will be dependent upon the location of the impacted bore but could include, for example, deepening the bore, providing a new bore or providing an alternative water supply.	Operation	LSBJV	Not Yet Triggered	
NAH01	Construction Heritage Management Plan (CHMP) will be prepared and implemented as part of the Construction Environmental Management Plan. The CHMP will include:  - Measures that will be implemented to manage potential impacts to items of heritage significance  - Inclusion of heritage awareness and management training for relevant personnel involved in site works  - Details regarding the conservation and curation of any historical artefacts recovered during works.	Construction	LSBJV	Open	LSBJV have prepared separate Non-Aboriginal Heritage Management Sub-Plan (NAHMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0007) and an Aboriginal Cultural Heritage Management Sub-Plan (ACHMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0008) to meet both CoA C4(g) and C4 (h) and the requirements of this REMM. Refer to Table 3-2 of the NAHMP and ACHMP for further details regarding how the plans fulfil the REMM requirements. These plans have been lodged to DPE for approval.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
NAH02	An Interpretation Strategy will be developed and implemented to identify and interpret the key heritage values and stories of the heritage areas affected by the project and inform the development of the Urban Design and Landscape Plan for the project, in accordance with Interpreting Heritage Places and Items Guideline (NSW Heritage Office 2005). The Interpretation Strategy will:  - Build on themes, stories and initiatives proposed as part of other stages of WestConnex to ensure a consistent approach to heritage interpretation for the project	Construction	LSBJV	Open	Design is open and compliance with this condition will be reported in subsequent compliance reports.
	-Include themes and stories including the Rozelle railways historic functions, trains and trams transport, industrialisation and the Rozelle-Darling Harbour Goods Line -Identify how the rail related infrastructure salvaged from the Rozelle rail Yards will be reused.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
NAH03	Photographic archival recording will be undertaken of:	Construction	LSBJV	N/A	N/A
	<ul> <li>Infrastructure associated with the White Bay Power Station site that could be affected by the project.</li> <li>Whites Creek Stormwater Channel (in the area to be impacted)</li> <li>Stormwater Canal off Lilyfield Road</li> <li>'Cadden Le Messurier' at 84 Lilyfield Road</li> <li>Former Hotel at 78 Lilyfield Road</li> <li>Victoria Road overbridge</li> <li>Each house at 260–266 Victoria Road</li> <li>Each house at 248–250 Victoria Road</li> </ul>	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
	- Former Bank of NSW (164 Parramatta Road).  It will be undertaken in accordance with the NSW Heritage Office guidelines Photographic Recording of Heritage Items Using Film or Digital Capture (2006).  The photographic archival recording will occur prior to any works that have the potential to impact upon the items and will include the identification of appropriate stakeholders to receive copies of the documentation.	Construction	LSBJV	Open	This requirement has been addressed in Table 6-1 and Section 7.3.3 of the NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007). This requirement has also been addressed in Appendix A (6) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).
NAH04	As part of the CHMP, a Historical Archaeological Research Design (HARD) will be prepared before the start of proposed works within each of the following Historical Archaeological Management Units (HAMUs): HAMU 3, HAMU 6, HAMU 7, HAMU 10, and HAMU 11. The HARD will be prepared by a qualified archaeologist in consultation with the NSW Heritage Council and will include:  - Descriptions of clear significance thresholds for possible archaeological items that may be uncovered during works  - A methodology and scope for a program of archaeological excavation, investigation, and recording of any historical archaeological remains that will be impacted by the project  - Requirement for post-excavation reporting, including artefact analysis and additional historical research, where necessary, and long term management of records  - Details of what will happen with any artefacts uncovered and associated reports.	Construction	LSBJV	Open	This requirement has been addressed in Table 6-2 and Section 7.3.4 of the NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007). This requirement has also been addressed in Appendix A (8) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
NAH05	Before excavation of archaeological management sites, a suitably qualified Excavation Director who complies with Criteria for Assessment of Excavation Directors (Heritage Council of NSW 2011) will be engaged to advise on matters associated with historic archaeology. Where archaeological excavation is required, the Excavation Director will oversee excavation and advise on archaeological matters.	Construction	LSBJV	Open	This requirement has been addressed in Table 6-2, Table 7-4 (NAH12) and Section 8.1 of the NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007)
NAH06	Potential vibration impacts to features of heritage significance will be managed in accordance with the CNVMP prepared for the project.	Construction	LSBJV	Open	This requirement has been addressed in Table 2-1 (8), Section 8.1, Table 8-1 (NV32, NV33) and Construction Noise and Vibration Monitoring Program (M4M5-LSBJ-PRW-EN-MP01-PLN-0011) within the NVMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0002). This requirement has been addressed in Table 7-4 (NAH3) of the NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0007)
NAH07	Potential heritage impacts due to settlement and ground movement caused by the project will be managed in accordance with the relevant measures identified in the land use and property section of this table and monitored in accordance with the Settlement Monitoring Program.	Construction	LSBJV	Open	Design is Open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Table 6-1 and Section 7.2 of the NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-007)
NAH08	Any items of potential heritage conservation significance or human remains discovered during construction will be managed in accordance with an Unexpected Heritage Finds and Humans Remains Procedure developed for the project in accordance with relevant guidance provided by the Heritage Council of NSW, the NSW Heritage Division of OEH and the Standard Management Procedure Unexpected Archaeological Finds (Roads and Maritime 2015a). The procedure will detail requirements regarding notification of relevant agencies and the NSW Police and will be implemented for the duration of construction.	Construction	LSBJV	Open	This requirement has been addressed in Table 7-4 (NAH 15), Section 7.3 and Appendix A of the NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-007).
NAH09	A Heritage Salvage Strategy will be prepared to identify the salvage potential of the fabric and features from heritage items and potential heritage items that will be demolished to facilitate the project. This could include timber joinery, fireplaces, stained glass, stairs, decorative tiles, bricks, steel truss structures, windows etc. The strategy will also identify options and a process for dissemination of salvaged items to owners, community groups and interested parties.	Construction	LSBJV	Open	This requirement has been addressed in Table 4-1 and Section 7.3.3 of the NAHMP (M4M5-LSBJ-PRW-EN-MP01-
NAH10	Sandstone kerbing in the vicinity of 32 and 34 Victoria Road, Rozelle that will be removed to facilitate the project will be salvaged and provided to Inner West Council.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
NAH11	The potential for impacts to the railway cutting on the eastern side of Victoria Road, associated with the White Bay Power Station, will be considered during the development of the detailed design for the realigned Victoria Road and associated bridge. The final design will seek to avoid impact to the railway cutting and maintain the visual relationship between the cutting and the White Bay Power Station site. Landscaping sympathetic to the relationship, developed in consultation with a heritage specialist, will be included in the UDLP for the project.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
NAH12	A condition assessment of the southern penstock (and its associated water channels) will be carried out by a heritage specialist and a structural engineer prior to any works in the vicinity with the potential impact upon the item. If required any conservation works required to limit potential impacts on deteriorated fabric (loose bricks, corroded steel) will be identified and implemented prior to construction.	Construction	LSBJV	Open	This requirement has been addressed in Table 6-1 of the NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-007).
NAH13	The southern penstock and its associated water channels (location and extent unknown) will be protected during works associated with the reconstruction of the Victoria Road bridge.	Construction	LSBJV	Not Yet Triggered	
NAH14	The new bridge over the Whites Creek Stormwater Channel must not impact the extant significant heritage fabric of the channel and should be a solely independent structure.	Construction	LSBJV	Not Yet Triggered	
NAH15	Landscaping, following the construction of the substation, should consider screening the substation and water treatment plant, from the Leichhardt (Charles Street) Underbridge. The design and location of the landscaping will be informed by a heritage specialist and should seek to create a visual separation between the new structure and the heritage item.	Construction	LSBJV	Not Yet Triggered	
NAH16	A condition assessment of the northern penstock will also be carried out by a heritage specialist and a structural engineer prior to any vibratory works in the vicinity that have the potential to impact on the item. The condition assessment will inform additional management measures to protect the northern penstock, if required. Any conservation works required to limit potential impacts on deteriorated fabric (loose bricks, corroded steel) will be identified and implemented prior to commencement of the relevant vibratory works in the vicinity.	Construction	LSBJV	Not Yet Triggered	
AH1	Any items of potential Aboriginal archaeological or cultural heritage conservation significance or human remains discovered during construction will be managed in accordance with the Unexpected Heritage Finds and Humans Remains Procedure developed for the project.	Construction and Operation	LSBJV	Open	This requirement has been addressed in Section 4.2, Section 8.2, Section 8.3, Table 7-1 (ACH1, ACH4, ACH5, ACH9 and ACH10) and Appendix A of the ACHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-008). This requirement has also been addressed in Section 7.3 and Appendix A of the NAHMP (M4M5-LSBJ-PRW-EN-MP01-PLN-007).
AH2	Subject to gaining access from the relevant landholder, a suitably qualified archaeologist will visit AHIMS site #45-6-2278 prior to the commencement of any vibration intensive construction activities in the vicinity of the site to verify the site to confirm and record its current condition.	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
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АН3	If the AHIMS site #45-6-2278 is verified, an assessment will be completed by a suitably qualified and experienced person prior to the commencement of any vibration intensive construction activities in the vicinity. The assessment will consider all vibration intensive activities that will occur in the vicinity, the likely vibration levels and relevant vibration criteria and identify the management measures, including monitoring, that will be implemented to prevent and reduce potential impacts. A final condition assessment will be carried out at the completion of construction detailing recommendations for remediation measures if	Construction	LSBJV	N/A	N/A – not within project scope of M4-M5 Link Mainline Tunnels
GHG1	An Energy Efficiency and Greenhouse Gas Emissions Strategy and Management Plan will be prepared for the project as part of the project's Sustainability Management Plan and will be implemented to assist in achieving 'Design' and 'As Built' ratings of Excellent under the Infrastructure Sustainability Council of Australia infrastructure rating tool.	Construction	LSBJV	Open	A Energy Efficiency and Greenhouse Gas Emissions Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0019), located within the Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021) has been prepared to fulfil the requirements of this REMM.
GHG2	Undertake an updated greenhouse gas (GHG) assessment based on detailed design for Open monitoring and review of emissions during construction.	Construction	LSBJV	Open	Detailed Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Section 4.3 and the Energy Efficiency and Greenhouse Gas Emissions Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0019). Within the Energy Efficiency and Greenhouse Gas Emissions Strategy this has been addressed in Section 3.1.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
GHG3	Opportunities to use low emission construction materials, such as recycled aggregates in road pavement and surfacing, and cement replacement materials will be investigated and incorporated where feasible and cost-effective.	Construction	LSBJV	Open	Detailed Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports. This requirement has been addressed in Section 4.2, Section 4.6 and the Energy Efficiency and Greenhouse Gas Emissions Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0019). Within the Energy Efficiency and Greenhouse Gas Emissions Strategy this has been addressed in Section 3.1 and Section 4.
GHG4	Construction plant and equipment will be operated and maintained to maximise efficiency and reduce emissions, with construction planning used to minimise vehicle wait times and idling onsite and machinery turned off when not in use.	Construction and Operation	LSBJV	Open	This requirement has been addressed in Section 4.2.2 of Energy Efficiency and Greenhouse Gas Emissions Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0019). This requirement has also been addressed in Table 6-1 (AQ34) of the AQMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0014).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
GHG5	Locally produced goods and services will be procured where feasible and cost effective to reduce transport fuel emissions.	Operation	LSBJV	Open	This requirement has been addressed in Section 4.2 of the Sustainability Management Plan as well as in the Energy Efficiency and Greenhouse Gas Emissions Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0019). Within the Energy Efficiency and Greenhouse Gas Emissions Strategy this has been addressed in Section 4. This requirement has also been addressed in the Procurement Management Plan.
GHG6	At least 20 per cent of construction energy (electricity) required for the project will be sourced from renewable energy generated onsite and/or an accredited GreenPower energy supplier, where possible. Six per cent of construction energy (electricity) requirements will be offset, with any offset undertaken in accordance with the Australian Government National Carbon Offset Standard.	Operation	LSBJV	Open	This requirement has been addressed in Section 4.4 as well as in Appendix B (Energy Efficiency and Greenhouse Gas Emissions Strategy) of the Sustainability Management Plan. Within the Energy Efficiency and Greenhouse Gas Emissions Strategy this has been addressed in Section 4.2.2.
OGHG7	The tunnel will be designed with appropriate vertical alignments and grades to allow vehicles to maintain constant speeds and minimise fuel use to reduce potential greenhouse gas emissions.	Construction	LSBJV	Not Yet Triggered	
OGHG8	Energy efficiency will be considered during the design of mechanical and electrical systems such as the tunnel ventilation system, tunnel lighting, water treatment systems and electronic toll and surveillance systems. Energy efficient systems will be installed where reasonable and practicable.	Construction	LSBJV	Not Yet Triggered	
OGHG9	At least six per cent of operational energy (electricity) required for the project will be sourced from an accredited GreenPower energy supplier and/or through renewable energy generated onsite. Opportunities for operational energy offset, in accordance with the Australian Government National Carbon Offset Standard, will be considered during detailed design.	Construction	LSBJV	Not Yet Triggered	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
RW1	Construction material will be sourced in accordance with the relevant aims of the WestConnex Sustainability Strategy (Sydney Motorway Corporation 2015) and a Sustainability Management Plan (that will be developed during detailed design), including to optimise resource efficiency and waste management, and select locally sourced materials and prefabricated assets where possible, to reduce greenhouse gas emissions.  Unnecessary resource consumption will be avoided through the detailed design of the project and by making realistic predictions about the required quantities of resources, such as construction materials.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.2, Section 6.1, Section 6.2 and Table 7-1 (W26) of the Waste Management Subplan (WMP) (M4M5-LSBJ-PRW-EN-MP01-PLN-0009). This REMM is also addressed by the Sustainability Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0016), Section 4.6 of the Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021) and in the Procurement Management Plan.
RW2	Wastes will be managed and disposed of in accordance with relevant NSW legislation and government policies.	Construction	LSBJV	Open	This requirement has been addressed in Section 3.1, Section 5 and Table 7-1 (W7 W10, W11, W21, W22, W42 W43 and W44) of the WMP (M4M5-LSBJ-PRW-EN-MP01 PLN-0009). This REMM is also addressed by Section 4.9 of the Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
RW3	A Construction Waste Management Plan will be prepared as part of the CEMP and regularly updated during detailed design and construction, detailing appropriate procedures for waste management. The plan will include the waste management measures described in this EIS.	Construction	LSBJV	Compliant	A Waste Management Sub-Plan (WMP) has been prepared to meet CoA C4(i) and fulfils the requirements of this REMM. Refer to Table 3-2 of the WMP for further details regarding the fulfillment of REMM requirements. The WMP forms part of the CEMP (Appendix B9). The WMP was submitted to DPE for approval and is currently awaiting approval. The WMP has been endorsed by the ER, RMS and SMC.
RW4	Wastes will be managed using the waste hierarchy principles of:  - Avoidance of unnecessary resource consumption to reduce the quantity of waste being generated  - Recovery of resources for reuse on-site or off-site for the same or similar use, without reprocessing  - Recovery of resources through recycling and reprocessing so that waste can be processed into a similar non-waste product and reused  - Disposal of residual waste.	Construction	LSBJV	Open	This requirement has been addressed in Table 2-1, Section 5.2 and Table 7-1 (W1) of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009).
RW5	Resource recovery will be applied to the management of construction waste and will include:  - Recovery of resources for reuse-reusable materials generated by the project will be segregated for reuse on site, or off site where possible, including the reuse of the major waste streams (VENM)  - Recovery of resources for recycling @ recyclable resources (such as metals, plastics and other recyclable materials) generated during construction and demolition  - Resources will be segregated for recycling and sent to an appropriate recycling facility for processing  - Recovery of resources for reprocessing @ cleared vegetation will be mulched or chipp	Construction	LSBJV	Open	This requirement has been addressed in Table 2-1, Section 5, Section 6 and Table 7-1 (W7, W19, W24, W30, W31, W34, W35, W39 and W41) of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009). This REMM is also addressed by the Sustainability Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0016), Section 4.9 of the Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
RW6	Options identified for the off-site reuse of waste will comply with relevant NSW EPA resource recovery exemptions and requirements.	Construction	LSBJV	Open	This requirement has been addressed in Section 5, Section 6, Table 7-1 (W16, W19 and W30), Appendix B and Appendix C of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009). This REMM is also addressed by the Sustainability Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0016) / Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021).
RW7	The Construction Waste Management Plan will document anticipated volumes of spoil that will be generated by the project, spoil storage locations within project sites and likely spoil disposal sites.  The Construction Waste Management Plan and spoil reuse opportunities will be regularly reviewed and updated during detailed design and project construction.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.1, Section 6.2, Table 7-1 (W18 and W19), Appendix A and Appendix C of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009). This REMM is also addressed by the Sustainability Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0016) / Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021).
RW8	The project will reuse or recycle around 95 per cent of uncontaminated spoil generated for beneficial purposes, either within the project or at other locations in accordance with the project spoil management hierarchy	Construction	LSBJV	Open	This requirement has been addressed in Table 2-1 (KPI 2), Section 5.2.2, Table 5-5 and Table 7-1 (W30) of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009).

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
RW9	Suitable areas will be identified to allow for contingency management of unexpected waste materials, including contaminated materials. Suitable areas will be required to be hardstand or lined areas that are appropriately stabilised and bunded, with sufficient area for stockpile storage.	Construction	LSBJV	Open	This requirement has been addressed in Section 5.2.3 and Table 7-1 (W13) of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009). This requirement has also been addressed in Table 6-1 (SSWMM22) and the CLMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0021). Within the CLMP this has been specifically addressed in Table 7-1 (C6) and Section 8.3. This has also been addressed in the Pollution Incident Response Management Plan.
RW10	The discovery of previously unidentified contaminated material will be managed in accordance with an unexpected contaminated lands discovery procedure, as outlined in the Guideline for the Management of Contamination (Roads and Maritime 2013) and detailed in the CEMP.	Construction	LSBJV	Open	An Unexpected Contaminated Land and Asbestos Finds Procedure (M4M5-LSBJ-PRW-EN-GE01- PRC-0001) has been prepared to fulfil the requirements of this REMM.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
RW11	Spoil stockpiles will be provided with appropriate environmental controls and managed to reduce potential impacts associated with dust generation, erosion and sedimentation.	Construction	LSBJV	Open	This requirement has been addressed in Section 5, Table 7-1 (W14 and W15) and Appendix A of the Waste Management Subplan. This REMM is also addressed in Table 6-1 (AQ24 and AQ28) by the Air Quality Management Subplan. This requirement has also been addressed in Table 6-1 (SSWMM24, SSWMM25, SSWMM26, SSWMM27, SSWMM28, SSWMM31, SSWMM30, SSWMM31, SSWMM31, SSWMM32, SSWMM33, SSWMM34) of the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005).
RW12	General wastes from site offices such as putrescibles, paper, cardboard, plastics, glass and printer cartridges will be separated and collected for recycling off-site wherever practicable.	Operation	LSBJV	Open	This requirement has been addressed in Table 2-1 (KPI 6), Section 5 and Table 7-1 (W27) of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009). This REMM is also addressed by Section 4.9 of the Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021).

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
RW13	An asbestos survey will be undertaken of buildings to be demolished as part of the project in accordance with an Asbestos Management Plan as part of the Work Health and Safety Plan. The survey will be conducted by a suitably qualified person.	Operation	LSBJV	Open	This REMM will also be addressed by the Work Health and Safety Plan. This requirement has also been addressed in Table 7-1 (W5) of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009) and in Table 6-1 (SSWMM36), CLMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0021) and in Asbestos Management Plan (M4M5-LSBJ-PRW-EN-GE01-PRC-0009).
RW14	Asbestos handling and management will be undertaken in accordance with an Asbestos Management Plan (or similar) prepared in accordance with relevant legislation, regulations and codes of practice as described in Chapter 23 (Resource use and waste minimisation) of the EIS. Adjacent communities will be provided with advance notification about potential hazards.	Operation	LSBJV	Open	This requirement has been addressed in Section 5.2.3 and Table 7-1 (W21 and W22) of the WMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0009). This REMM is also addressed in Table 6-1 (SSWMM37) of the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005), in Section 5.1 and Section 9 of the Asbestos Management Plan (M4M5-LSBJ-PRW-EN-GE01-PRC-0009) and Unexpected Contaminated Land and Asbestos Finds Procedure (M4M5-LSBJ-PRW-EN-GE01-PRC-0001), both of which are located in the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005). This REMM will also be addressed by the Work Health and Safety Plan.
OpRW1	The project will be operated in accordance with the relevant aims of the WestConnex Sustainability Strategy (Sydney Motorway Corporation 2015) and a Sustainability Strategy will be developed during detailed design to outline ways to optimise resource efficiency and waste management.	Operation	LSBJV	Not Yet Triggered	

	Environmental management measure				Comments / Evidence	
REMMs Ref		Timing	Responsibility	Compliance Status		
OpRW2	Waste will be managed and disposed of in accordance with relevant NSW legislation and government policies and the mitigation measures described in this EIS.	Construction	LSBJV	Not Yet Triggered		
OpRW3	Opportunities to reuse treated groundwater during project operation will be considered in preference to discharge receiving waterbodies. This could include irrigation of landscaped areas within the project footprint such as new Open spaces at the Rozelle interchange.	Construction	LSBJV	Not Yet Triggered		
OpRW4	In order to reduce demand on local water supplies, options will be investigated to provide water for the deluge system from wastewater produced through the tunnel drainage system, where it meets appropriate quality parameters.	Construction	LSBJV	Not Yet Triggered		
CC1	In the refinement of construction Work Health and Safety Management Plans, consider the increased potential for heat stress among construction personnel and implement measures for greater awareness and education of personnel around health and wellbeing during periods of extreme heat.	Construction	LSBJV	Open	This REMM will be addressed in the preparation and refinement of the Construction Work Health and Safety Management Plan	
CC2	A detailed climate change risk assessment which will be undertaken during detailed design, in accordance with AS 5334-2013 Climate change adaptation for settlements and infrastructure - A risk based approach. The assessment will identify adaptation measures to address medium, high and extreme risks.	Construction	LSBJV	Open	Detailed Design is open and compliance with this condition will be reported in subsequent compliance reports.	
CC3	Adaptation measures will be identified and implemented to address high and extreme climate change risks. Adaptation measures for medium risks will also be considered further during detailed design and implemented where reasonable and feasible.	Construction	LSBJV	Open	Detailed Design is open and compliance with this condition will be reported in subsequent compliance reports.	
CC4	The impact of climate change on potential flood risks will be considered during development of the detailed design in accordance with relevant guidelines as described in Chapter 17 (Flooding and drainage) and Appendix Q (Technical working paper: Surface water and flooding) of the EIS.	Construction and Operation	LSBJV	Open	Detailed Design is open and compliance with this condition will be reported in subsequent compliance reports.	
CC5	Increased flood risks due to climate change will be considered in the detailed design of drainage systems. Drainage network features will be developed and installed to mitigate potential increased flood risks as described in Chapter 17 (Flooding and drainage) and Appendix Q (Technical working paper: Surface water and flooding) of the EIS.	Construction	LSBJV	Open	Detailed Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports.	
CC6	Potential changes to sea levels due to climate change will be considered during the design of operational water treatment plants that will discharge to waterways. Discharge outlets and relevant water treatment plant features will be designed and constructed accordingly.	Construction	LSBJV	Open	Detailed Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports.	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
CC7	Consider the projected increase in the intensity and frequency of extreme rainfall during detailed design, which may lead to exacerbated risk of road incidents. Consider implementation of operational procedures for surface connections to increase safety during extreme rainfall events, such as use of variable speed signs and reduced speed limits.	Construction	LSBJV	Open	Detailed Design is open and compliance with this condition will be reported in subsequent six monthly compliance reports.
HR1	Storage of dangerous goods and hazardous materials will occur in accordance with suppliers' instructions and relevant Australian Standards and legislation including the:  - Work Health and Safety Act 2011 (NSW)  - Storage and Handling of Dangerous Goods Code of Practice (WorkCover NSW 2005)  - Environment Protection Manual for Authorised Officers: Bunding and Spill Management, technical bulletin (NSW EPA 1997).	Construction	LSBJV	Not Yet Triggered	
HR2	Secure, bunded areas will be provided around storage areas for oils, fuels and other hazardous liquids. Impervious bunds will be of sufficient capacity to contain at least 110 per cent of the volume of the largest stored container.	Construction	LSBJV	Open	This requirement has been addressed in Appendix A (95) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018). This requirement has also been addressed in Table 6-1 (SSWMM39, SSWMM40, SSWMM41, SSWMM42 and SSWMM44) of the SSWMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0005).
HR3	Management measures to reduce the potential for spills, reduce potential spill volumes and prevent any contamination will be developed and implemented for activities such as vehicle refuelling, servicing, maintenance and washdown, where there is a potential for spills and contamination.	Construction	LSBJV	Open	This requirement has been addressed in Appendix A (95, 96 and 97) of the SEMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0018). This requirement has also been addressed in Table 6-1 (SSWMM43, SSWMM46, SSWMM47, SSWMM48, SSWMM49 and SSWMM50) and the CLMP (M4M5-LSBJ-PRW-EN-MP01-PLN-0021) in Table 7-1 (C10). This has also been addressed in the Pollution Incident Response Management Plan.
HR4	Safety Data Sheets for dangerous goods and hazardous substances will be stored on site prior to their arrival.	Construction	LSBJV	Not Yet Triggered	
HR5	Transport of dangerous goods and hazardous substances will be conducted in accordance with relevant legislation and codes, including the Dangerous Goods (Road and Rail Transport) Regulation 2014 (NSW) and the Australian Code for the Transport of Dangerous Goods by Road and Rail (National Transport Commission 2008).	Operation	LSBJV	Not Yet Triggered	
HR6	Construction lighting will be designed and installed in accordance with the design requirements of the Civil Aviation and Safety Authority (CASA) and the Sydney Airport Master Plan 2033	Operation	LSBJV	Not Yet Triggered	

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
OpHR1	The fire and safety systems and measures adopted for the project will be equivalent to or exceed the fire safety measures recommended by National Fire Protection Association 502 (American), Permanent International Association of Road Congresses (European), AS4825 (Australian) and Roads and Maritime standards.	Operation	LSBJV	Not Yet Triggered	
OpHR2	Open consultation will be undertaken with emergency services regarding fire and safety systems and associated measures adopted for the project.	Operation	LSBJV	Not Yet Triggered	
OpHR3	The transport of dangerous goods and hazardous substances will be prohibited through all tunnels associated with the project.	Operation	LSBJV	Not Yet Triggered	
OpHR4	An Incident Response Plan will be developed as part of the Emergency Response Plan for the project and implemented in the event of an accident or incident.	Operation	LSBJV	Not Yet Triggered	
OpHR5	The response to incidents within the motorway will be managed in accordance with the memorandum of understanding between Roads and Maritime and the NSW Police Service, NSW Rural Fire Service, NSW Fire Brigade and other emergency services.	Operation	LSBJV	Not Yet Triggered	
OpHR6	Storage of dangerous goods and hazardous materials will occur in accordance with suppliers' instructions and relevant Australian Standards and legislation including the:  - Work Health and Safety Act 2011 (NSW)  - Storage and Handling of Dangerous Goods Code of Practice (WorkCover NSW 2005)  - Environment Protection Manual for Authorised Officers: Bunding and Spill Management, technical bulletin (NSW EPA 1997).  Storage methods may include bulk storage tanks, chemical storage cabinets/ containers or impervious bunds.	Operation	LSBJV	Not Yet Triggered	
OpHR7	Secure, bunded areas will be provided around storage areas for oils, fuels and other hazardous liquids. Impervious bunds will be of sufficient capacity to contain at least 110 per cent of the volume of the largest stored container.	Construction	LSBJV	Open	Details regarding storage of dangerous goods and hazardous materials will be provided in the six monthly Compliance Report issued prior to operational phase.
OpHR8	Management measures to reduce the potential for spills, reduce potential spill volumes and prevent any contamination will be developed and implemented for activities such as vehicle refuelling, servicing, maintenance or washdown, where there is a potential for spills and contamination.		LSBJV	Open	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
OpHR9	Material Safety Data Sheets for dangerous goods and hazardous substances will be stored on site prior to their arrival.	Construction and Operation	LSBJV	Open	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
OpHR10	The detailed design of the project substations will ensure that the exposure limits for the general public suggested by the Draft Radiation Standard (Australian Radiation Protection and Nuclear Safety Agency 2006) will not be exceeded at the boundary of the substation sites.	Construction	LSBJV	Open	Detailed Design is Open and compliance with this condition will be reported in subsequent compliance reports.
OpHR11	Should the exhaust plumes at any of the M4-M5 Link ventilation outlets be assessed as a 'controlled activity' under the Airports Act and the Airspace Regulations, then the project will be operated in accordance with any conditions of approval from the Secretary of Department of Infrastructure and Regional Development.	Construction	LSBJV	Open	Detailed Design is Open and compliance with this condition will be reported in subsequent compliance reports.

	Environmental management measure				Comments / Evidence
REMMs Ref		Timing	Responsibility	Compliance Status	
OpHR12	Aviation hazard lighting (if required), building lighting and surface road lighting will be designed and operated in accordance with the requirements of CASA and the Sydney Airport Master Plan 2033.	Construction	LSBJV	Open	Detailed Design is Open and compliance with this condition will be reported in subsequent compliance reports.
C1	Cumulative impacts strategy will be prepared in accordance with the Cumulative impact assessment methodology in Chapter 26 and Appendix C (Cumulative impact assessment methodology) of the EIS. It will include strategies and measures to minimise cumulative impacts on the community and other stakeholders including:  - Identification of key stakeholders and projects - Identification of precincts for which separate Cumulative impact plans may be developed and implemented - Identification of a co-ordinating body - Procedures and mechanisms for co-ordinating consultation and sharing of information, such as works programs and schedules, with other projects - Opportunities and measures to work with other projects to minimise the effects of impacts and enhance the benefits of multiple projects occurring concurrently or consecutively - Opportunities to co-ordinate community communications across the various projects to provide consistent messaging.	Construction	LSBJV	Open	This requirement has been addressed in Appendix B1 - B9 of the Construction Environmental Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0003) and individually addressees cumulative impacts for each applicable environmental aspect.
C2	A Community Consultative Committee will be established for the project in accordance with Community Consultative Committee Guidelines (NSW Department of Planning and Environment 2016). The committee will provide a forum for discussion between Roads and Maritime, the construction contractor(s), local community and councils regarding the project, including cumulative impacts.	Construction	RMS/SMC/LSBJV	Open	This requirement has been addressed in Section 7 and Table 7-1 of the CCS (M4M5-LSBJ-PRW-GEN-MP01-PLN-0004).
\$1	The construction contractor will develop and implement a Sustainability Management Plan during detailed design. The Sustainability Management Plan will establish governance structures, processes and systems that ensure integration of all sustainability considerations (vision, commitments, principles, objectives and targets), initiatives, monitoring and reporting during the detailed design and construction phases of the project.	Construction	LSBJV	Compliant	A Sustainability Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0016) and Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021) have been prepared to meet CoA E200 and fulfil the requirements of this REMM. Refer to Section 2 of the Sustainability Management Plan for further details regarding the fulfillment of REMM requirements.

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
S2	The project will be designed and constructed to achieve an Excellent 'Design' and 'As built' rating under the Infrastructure Sustainability Council of Australia's Infrastructure Sustainability rating tool.	Construction	LSBJV	Open	A Sustainability Strategy (M4M5-LSBJ-PRW-EN-MP01-PLN-0016) and Sustainability Management Plan (M4M5-LSBJ-PRW-GEN-MP01-PLN-0021) have been prepared to meet CoA E200 and fulfil the requirements of this REMM. Refer to Section 2 of the Sustainability Management Plan and Table 1-1 of the Sustainability Strategy for further details regarding the fulfillment of REMM requirements.