

Quarterly Compliance Report: September 2018 – December 2018 Windsor Bridge Replacement Project

MAY 2019

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Revision history

Revision	Date	Prepared by	Reviewed by
A	29 March 2019	Roads and Maritime and Georgiou	Karina Rubenis
В	13 May 2019	Roads and Maritime and Georgiou	Karina Rubenis
С	22 May 2019	Roads and Maritime Georgiou	and Toby Hobbs
D	28 May 2019	Roads and Maritime Georgiou	and Toby Hobbs

Glossary / Abbreviations

AFA	Ancillary Facility Assessment (AFA)
CCS	Community Communication Strategy
CEMP	Construction environmental management plan
CFFMP	Construction Flora and Fauna Management Plan
CHMP	Construction Heritage Management Plan
CNVP	Construction Noise and Vibration Management Plan
СоА	Condition of Approval
CSWMP	Construction Soil and Water Management Plan
CTMP	Construction Traffic Management Plan
CTP	Compliance Tracking Program
DP&E	Department of Planning and Environment
EIS	Environmental Impact Statement
EMS	Environmental management system
Environmental Audit	Verification of how implementation is proceeding with respect to the Project Deed, AS/NZS ISO 14001:2004, CEMP and environmental documents such as CoA
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.
ER (Environmental Representative)	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
EPA	NSW Environment Protection Authority
ERSED	Erosion and sediment
Georgiou	Georgiou Group
Non-compliance	Failure to comply with the requirements of the Project approvals or any applicable license, permit or legal requirements.
Non-conformance	Failure to conform to the requirements of Project system documentation including this CEMP or supporting documentation.
OEH	Office of Environment and Heritage
PESCPs	Progressive Erosion and Sediment Control Plans
Project, the	Windsor Bridge Replacement Project
REMM	Revised Environmental Management Measures
Roads and Maritime	Roads and Maritime Services
Secretary	Secretary of the NSW Department of Planning and Environment (or delegate)
SPIR	Submissions / Preferred Infrastructure Report

1 Introduction

In accordance with Condition of Approval (CoA) D6, a Compliance Tracking Program (CTP) was prepared for the Windsor Bridge Replacement Project (the Project). The CTP was approved by the Department of Planning and Environment (DP&E) on 20 September 2018.

As part of the CTP, Construction Compliance Reports must be prepared at three monthly intervals following commencement of construction and subsequent submission timeframes to be directed by the Secretary if necessary, following review of the reports for the duration of construction.

This Construction Compliance Report has been prepared covering the quarterly reporting period from the commencement of construction on 24 September 2018 to 31 December 2018.

It is to address the requirements of the CoA and the Revised Environmental Management Measures (REMM) of the Submissions Report incorporating the Preferred Infrastructure Report (SPIR) (SKM, April 2013). The REMM is the equivalent of the Statement of Commitments, referred to in CoA D6 (b).

Appendix A presents the Project compliance against the CoA and Appendix B presents the Project compliance against the REMM in the SPIR.

The Project is being constructed by Georgiou Group (Georgiou) with overall project management and supervision of the Project by Roads and Maritime Services (Roads and Maritime). Georgiou and Roads and Maritime are jointly responsible for compliance under the CTP.

1.1 Project approval documentation

Documentation relevant to this quarterly compliance report includes:

- Windsor Bridge Replacement Project Environmental Impact Statement (SKM, November 2012);
- Windsor Bridge Replacement Project Submissions Report incorporating Preferred Infrastructure Report (SPIR) (SKM, April 2013); and
- Infrastructure Approval SSI-4951 (approved by the Minister for Planning and Infrastructure on 20 December 2013).

2 Project description

2.1 Overview

This Windsor Bridge Replacement Project (refer Figure 2-1) will involve:

- Construction of a new bridge over the Hawkesbury River at Windsor, around 35 metres downstream of the existing Windsor Bridge;
- Construction of new approach roads and intersections to connect the new bridge to existing road network;
- Modifications to local roads and access arrangements, including changes to the Macquarie Park access and connection of The Terrace;
- Construction of pedestrian and cycling facilities, including a shared pedestrian/cycle pathway for access to and across the new bridge;
- Removal and backfilling of the existing bridge approach roads;
- Demolition and removal of the existing road bridge, known as Windsor Bridge;
- Urban design and landscaping works, including within the parkland area of Thompson Square and adjacent to the northern intersection of Wilberforce Road, Freemans Reach Road and the Macquarie Park access road; and
- Ancillary works such as public utility adjustments, water management measures and scour protection works, as required.

2.2 Construction activities and sequence

Typically, the following sequences of activities are anticipated:

- **Pre-construction** Salvage and interpret any impacted heritage sites, including historical archaeologically significant sites including sites within the Thompson Square Conservation Area and archaeological sites;
- **Site establishment** installing boundary fencing, construction facilities, environmental controls and carrying out pre-clearing vegetation fauna surveys;
- **Relocation or protection of services** relocating and protecting electricity, gas, water and telecommunications infrastructure affected by the Project;
- Site preparation clearing and grubbing, topsoil stripping and storage;
- **Earthworks** undertaking cut and fill works along the alignment to achieve desired levels, removal of unsuitable material, batter and embankment shaping;
- Structures building the new bridge and drainage;
- Pavements forming sub and base layers and construction final pavement finishes;
- Road furniture installing signage, line marking and safety barriers;
- **Demolition** demolition of the existing bridge;
- Landscaping and restoration reuse of topsoil, planting of native plants and seeding disturbed areas with native and cover crops species (note this will take place throughout construction as elements of the project are complete where ongoing disturbance is not anticipated); and
- **Open to traffic** commissioning of the new bridge, bridge approaches, new intersections and related infrastructure.

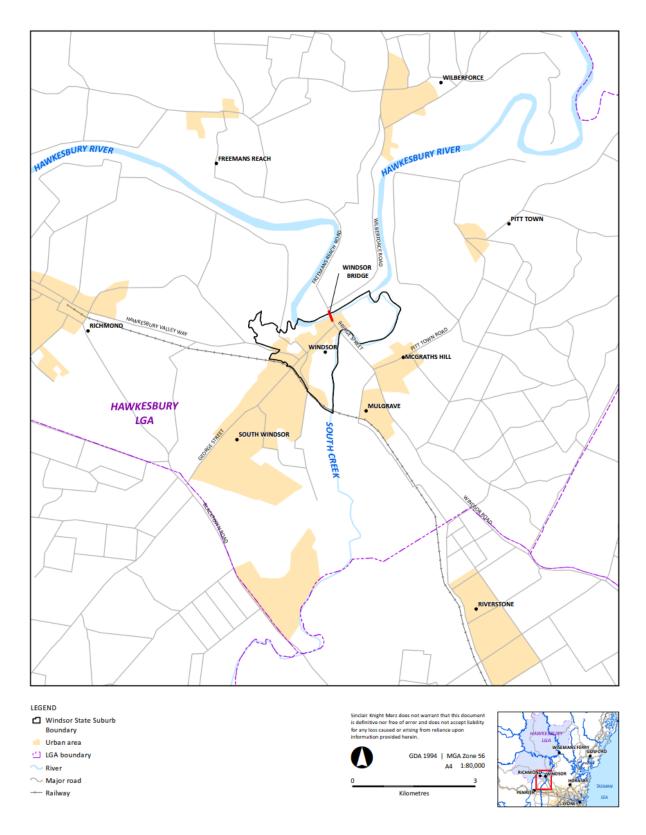


Figure 2-1 Location of the Windsor Bridge Replacement Project

3 Project Management

The Project is being constructed by Georgiou, with overall project management and supervision of the project by Roads and Maritime Services (Roads and Maritime).

Georgiou and Roads and Maritime are jointly responsible for compliance with the CoAs and REMMs.

4 Environmental Management System Overview

The Construction Environmental Management Plan (CEMP) is the primary system to manage and control the environmental aspects of the project during construction. It 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 CoA, the environmental management 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.

4.1 Compliance Tracking Program requirements

This compliance report provides a status of compliance of construction in meeting the requirements specified in the CoAs and the REMMs as a quarterly reporting cycle following the commencement of construction.

4.2 Scope of the activities undertaken during the reporting period

During September 2018 to December 2018, construction for the project has seen the following activities started and progressed towards completion:

- Establishment of ancillary facility (including installation of the temporary jetty) on the northern side of the Hawkesbury River;
- Construction of the casting bed for the incrementally launched bridge;
- Riverbank (scour) protection on the north and south river embankments;
- Archaeological investigation and salvage in lower Thompson Square;
- Piling on the northern and southern bridge approaches;
- Marine piling in the Hawkesbury River; and
- Utility relocations around the southern bridge abutment.

4.3 Approvals

The status of approvals achieved for the period September 2018 to December 2018 is provided in Table 4-1.

СоА	Item	Approval Status (Sep 2018 – Dec 2018)		
C4	Alternate Heritage Manager	DP&E approved MacLaren North as the Alternative Heritage Manager on 6 Nov 2018.		

4.4 Performance of environmental controls

Key environmental controls have included:

- Implementation of mitigation measures across the project in accordance with the CEMP and sub plans;
- Fencing and signposting of vegetation protection areas and no-go areas;
- Erosion and sedimentation controls in accordance with Progressive Erosion and Sediment Control Plans (PESCPs). Controls include silt curtains, diversion drains, bunding, sediment fencing and drainage filters, and sediment basins;
- Management of heritage through implementation of the unexpected finds procedure;

- Internal environmental permit process developed as part of the CEMP, which targets de-watering, vegetation clearing and out of hours works; and
- Weekly environmental monitoring regime to review controls and guide maintenance actions.

In general the above environmental controls have effectively managed construction activities to avoid major environmental pollution impacts or detrimental impacts to surrounding environmental values. Specific case points of active management of environmental controls include:

- Erosion and sediment (ERSED) controls have been progressively installed and updated as the project continues earthwork activities. The silt curtain has been modified as required during construction works;
- Out of Hours Works continue to be planned and executed. The environment team monitor noise levels and provide an environmental surveillance for night works.
- Vibration monitoring around the heritage brick barrel drain continues as the terrestrial piling progresses
- Ongoing environmental monitoring of works (such as noise, vibration, air quality and water) conducted;
- Weekly, pre- and post- rainfall inspections conducted across the project as per CEMP and sub plans;
- Watercarts and street sweepers are regularly on site and active in minimising dust generation in disturbed areas;
- Soil binders for dust suppression of batters and temporary stockpiles;
- Management of heritage including assessment of a boat wreck found on the northern bank on 12 December 2019. The wreck was not considered to be of local or state significance; and
- Management of water dragons during scour protection installation works, including the update of the relative Environmental Work Method Statement (EMWS) to include Water Dragon Management Protocol, specific toolbox training. As works progressed, the risk to fauna was assessed as higher and a licensed fauna catcher was engaged to relocate Water Dragons.

4.5 Environmental Incidents and actions taken

Environmental incidents on the project are reported to the Roads and Maritime, who keeps a record and reports these to the DP&E as required. The environmental incidents for this reporting period are listed in Table 4-2.

No	Category	Description of Incident	Date	Action
001	Cat 2	Works undertaken without fully installed silt curtain	25/09/2018	Works ceased until silt curtain installed
002	Cat 2	Sediment laden water - contained within silt curtain	18/10/2018	Revised ERSED Plan
003	Cat 2	Small hydrocarbon leak – contained onsite	25/10/2018	Clean up undertaken
004	Cat 1	Surface scum left low point of silt curtain	23/10/2018	Silt curtain retrofitted with additional floats
005	Cat 1	Water main strike- sediment entered stormwater	30/10/2018	EPA and DPE were notified on 10/05/19

 Table 4-2 Environmental Incidents September 2018 – December 2018

No	Category	Description of Incident	Date	Action
007	Cat 2	Small hydrocarbon leak – contained onsite	07/11/2018	Clean up undertaken
008	Cat 2	Diesel fuel cell overfilled and leaking – contained onsite	13/11/2018	Clean up undertaken
009	Cat 2	Hydraulic oil slick – contained within silt curtain	14/11/2018	Clean up undertaken
010	Cat 2	Streetsweeper caused excessive dust – contained onsite	12/12/2018	Caused identified, and driver toolboxed
012	Cat 2	Sediment laden water – contained onsite	20/12/2018	Revised ERSED Plan

4.6 Independent Environmental Auditing

New State Environment and Heritage has been employed by Roads and Maritime and Georgiou to act as the Independent Environmental Auditor (IEA). The IEA has been engaged, amongst other tasks, to conduct regular independent environmental audits of the Project.

The independent environmental audits will be completed on a bi-annual basis (twice per year) during construction with the first audit scheduled to be undertaken in March 2019, approximately six months after the commencement of construction.

4.7 Routine Inspections and Monitoring Outcomes

Regular fortnightly inspections were undertaken by the ER and the Roads and Maritime Environment Branch representatives. A total of twelve inspection were undertaken between September and December. A summary of the inspections can be seen in Table 4-3.

During these inspections the following environmental matters were identified.

- Set up of the northern ancillary facility;
- Management of work areas and site access points to reduce materials tracking and potential dust generation;
- Working in accordance with approval conditions in the vicinity of designated heritage items;
- Maintenance of erosion and sedimentation controls;
- Community liaison and interaction;
- Fauna management;
- Maintenance of erosion and sedimentation controls across the terrestrial works area as well as within the Hawkesbury River channel;
- Stockpile management;
- Waste storage; and
- Exclusion zone fencing and signage.

Internal reviews of work practices and procedures have been undertaken to address reoccurring issues including:

- Environmental work method statements for clearing and grubbing, scour protection, heritage management and working in waterways; and
- Erosion and sediment control installation and maintenance

The Georgiou environmental site representative undertakes a weekly environmental inspection which covers the following areas.

- Erosion and sediment control
- Hydrocarbon and chemical management
- Water management
- Flora and fauna
- Weeds, pathogens and pests
- Cultural heritage
- Air quality and dust
- Fire management
- Waste management
- Noise and vibration
- Acid sulfate soils
- Asbestos management.

When an action is found, the relevant project team member is notified of the appropriate manner of closing out. Close out of the actions is undertaken within an appropriate timeframe.

Date	Total Number	Туре	Attendees	Outcome*
September 2018	(1)	(ER)		(Green)
24	24-ERRoads and Maritime (Karina Rubenis, Gene Gill, Dominic Callaghan) Georgiou (Chloe Redman, Glen Bolton, Michael Andrews) AAJV (David Marcus) DPE (Rob Sherry, Thomas Minchin) 		Green	
October 2018	(5)	(2 x ER; 3 x RMS)		(Amber, Green Amber, Green, Green)
3	-	RMS	Roads and Maritime (Karina Rubenis, Dom Callaghan) Georgiou (Chloe Redman)	Amber
8	-	ER	Roads and Maritime (Karina Rubenis) Georgiou (Andrew Burns, Chloe Redman, Glen Bolton) Vantage (Toby Hobbs)	Amber
16	-	RMS	Roads and Maritime (Karina Rubenis, Dom Callaghan, Brenden Wallis) Georgiou (Chloe Redman, Wayne Mayo)	Green
22	-	ER	Roads and Maritime (Karina Rubenis, Gene Gill, Graham Standen, Eilin Edisho) Georgiou (Chloe Redman, Andrew Burns , Glen Bolton) DPE (Rob Sherry, Chris Mathieson Vantage (Toby Hobbs)	Green
31	-	RMS	Roads and Maritime (Karina Rubenis, Gene Gill) Georgiou (Chloe Redman)	Green

Table 4-3 Environmental Inspections and Outcome September 2018 – December 2018

Date	Total Number	Туре	Attendees	Outcome*
November 2018	(3)	(2 x ER; 1 x RMS)		(Amber, Green Amber)
5	-	ER	Roads and Maritime (Karina Rubenis, Con Lambous, Brenden Wallace) Georgiou (Chloe Redman) Vantage (Toby Hobbs)	Amber
19	- ER Roads and Maritime (Con Lambous, Andrew Blackman, Belinda Crichton) Georgiou (Chloe Redman, Michael Andrews, Glen Bolton, Jude Tan) DPE (Tom Minchin) Vantage (Toby Hobbs)		Green	
29	-	RMS	Roads and Maritime (Karina Rubenis, Dom Callaghan, Brenden Wallis) Georgiou (Chloe Redman)	Amber
December 2018	(3)	(2 x ER; 1 x RMS)		(Amber, Green Amber)
3	-	ER	Roads and Maritime (Karina Rubenis, Gene Gill, Brenden Wallace) Georgiou (Chloe Redman, Andrew Burns) Vantage (Toby Hobbs)	Amber
12	-	RMS	Roads and Maritime (Karina Rubenis, Gene Gill, Dom Callaghan, Brenden Wallis) Georgiou (Chloe Redman)	Amber
17	-	ER	Roads and Maritime (Karina Rubenis) Georgiou (Chloe Redman, Glen Bolton) DPE (Tom Minchin, Serinda Singh, Ingrid Berzins) Vantage (Toby Hobbs)	Green

*The categorisation of the inspection outcome has been taken from the *Roads & Maritime Services Guidance Note: Environmental Inspection Reporting* (June 2015).

4.8 Environmental Complaints

Twenty one environmental complaints were lodged over the reporting period. These have been summarised in Table 4-3.

Month	No. of Community Environmental Complaints	Type Nature
September 2018	5	Heritage, vehicular/pedestrian access, CoA
October 2018	6	Heritage, WHS, fauna
November 2018	5	Heritage, site access, dust, road damage, noise
December 2018	5	Heritage, water quality, staff parking, signage/lighting

 Table 4-3 Environmental Complaints September 2018 – December 2018

Community environmental complaints have generally been related to concerns over the protection of the brick barrel drain as site works progress.

All complaints received were responded to within 24 hours and have been closed out. All complaints are recorded and tracked within the Project Consultation Manager system.

4.9 Non-conformance during the reporting period

Non-conformance is the failure to comply with the requirements of the CEMP and supporting documentation. Where a non-compliance has been identified, a corrective / preventative action (or actions) were implemented.

There was a non-conformance regarding CoA D11 (c). The project information was published in two local papers, one and two days after project commencement.

4.10 Environmental Training and Awareness

In accordance with Section 5.1 of the CEMP, all personnel, including employees, contractors and sub-contractors, have attended a compulsory environmental site induction prior to commencement on-site. The induction includes:

- Relevant details of the CEMP including purpose and objectives;
- Key environmental issues;
- Key conditions of environmental licences, permits and approvals;
- Specific environmental management requirements, internal permits and responsibilities;
- Mitigation measures for the control of environmental issues;
- Incident reporting requirements; and
- Information relating to the location of environmental constraints.

A record of all environment inductions are maintained and kept on-site. Environmental representatives continue to present the environmental component of the induction on a regular basis, as new personnel commence on the Project. Further to the induction, field crews and staff are reminded regularly of the environmental controls which are relevant and specific to the project.

Table 4-4 provides a list of actual training sessions in line with the work fronts and response to current issues.

Table 4-4 Training provided

Specific Environmental Training	Date	Training Content
Clearing and Grubbing	25/9/2018	Clearing limits, fauna handling, ESC
Clearing and Grubbing	3/10/2018	Southside clearing; no excavation, no grubbing due to heritage
Scour Protection	8/10/2018	No excavation on southside banks, silt curtain inspections for deficiencies, fauna spotting, refuelling practices
Scour Protection	9/10/2018	Same as previous day, new staff on site
Scour Protection	18/10/2018	Revision of Scour Protection EWMS to include Management Protocol for Water Dragons
Acid Sulfate Soil	31/10/2018	Contents of EWMS for Acid Sulfate Soils including, excavation, transportation, treatment and disposal
Pollution Incident Response	22/11/2018	Pollution Incident Response Procedure

5 Compliance with Project Approvals and REMM

The quarterly report on compliance with the CoA and the REMMs are provided in:

- Appendix A: Summary of project compliance against the CoA; and
- Appendix B: Summary of project compliance against the REMMs from the SPIR.

Appendix A Conditions of Approval

Legend	
DD	Detailed Design
BPC	Before Pre-construction
PC	Pre-construction
С	Construction
PoC	Post-construction
OP	Operation
D	Demolition

Compliance Sta Compliance Sta DD BPC PC C PoC O D Terms of Approval Al. The Applicant shall carry out the SSI generally in accordance with the: x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x	ng The CEMP and sub-plans a pre-construction documen
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(a) State Significant Infrastructure Application SSI-4951;(a) State Significant Infrastructure Application SSI-4951;(b) Windsor Bridge Replacement Project Environmental Impact Statement Volumes 1, 2, 3 and 4 prepared by Sinclair Knight Merz for Roads and Maritime Services, dated November 2012;(c) Windsor Bridge Replacement Project Submissions Report incorporating Preferred Infrastructure Report, dated April 2013 prepared by Sinclair Knight Merz for Roads and Maritime Services, including the revised Statement of(c) Windsor Bridge Replacement Project Submissions Report incorporating Preferred Infrastructure Report, dated April (d) Any plans and/or documentation submitted to satisfy the Pre-Construction Conditions of this consent as approved in writing by the Director-General; and(c) The conditions of this consent as approved in (c) The conditions of this consent for the construction Conditions of the construction Condition Conditions of the construction Conditi	
Knight Merz for Roads and Maritime Services, dated November 2012; x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x	g This condition is noted for
Knight Merz for Roads and Maritime Services, dated November 2012; Image: Construction of the services of the ser	g This condition is noted for
2013 prepared by Sinclair Knight Merz for Roads and Maritime Services, including the revised Statement of Commitments contained therein; (d) Any plans and/or documentation submitted to satisfy the Pre-Construction Conditions of this consent as approved in writing by the Director-General; and (c) The conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of this consent as approved in the pre-Construction Conditions of the pre-Construction Condition Construction Construction Con	g This condition is noted for
Commitments contained therein; Image: Commitments contained therein; (d) Any plans and/or documentation submitted to satisfy the Pre-Construction Conditions of this consent as approved in writing by the Director-General; and x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x	g This condition is noted for
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writing by the Director-General; and	g This condition is noted for
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A2. If there is any inconsistency between the plans and documentation referred to in condition A1, the most recent Compliant & Ongoin	-
document shall prevail to the extent of the inconsistency. However, conditions of this consent prevail to the extent of x x x x x x x	
any inconsistency.	
A3. The Applicant shall comply with any reasonable requirement(s) of the Director-General arising from the Department's Laborator Laborator Laborator Compliant & Ongoir	ng This condition is noted for
assessment of:	
(a) any reports, plans or correspondence that are submitted in accordance with this consent; and x x x x x x x x x	
(b) the implementation of any actions or measures contained within these documents.	
Limits on Approval	
A4. This consent shall lapse 5 years after the date on which it is granted, unless the works the subject of this SSI consent are Compliant	Consent for the project as
physically commenced on or before that date.	Archaeological investigation
Staging	
A5. The Applicant may elect to construct and/or operate the SSI in stages. Where staging is proposed, the Applicant shall Compliant	Roads and Maritime does n
submit a Staging Report to the Director-General prior to the commencement of the first proposed stage. The Staging	
Report shall provide details of:	
(a) how the SSI would be staged, including general details of work activities associated with each stage and the general	
timing of when each stage would commence; and	
(b) details of the relevant conditions of consent, which would apply to each stage and how these shall be complied with across and between the stages of the SSI.	
Where staging of the SSI is proposed, these conditions of consent are only required to be complied with at the relevant	
time and to the extent that they are relevant to the specific stage(s).	
The Applicant shall ensure that an updated Staging Report (or advice that no changes to staging are proposed) is	
submitted to the Director Coneral prior to the commencement of each stage identifying any changes to the proposed	
submitted to the Director-General phones to the commencement of each stage, identifying any changes to the proposed x x x x	
A6. The Applicant shall ensure that all plans, sub-plans and other management documents required by the conditions of this	
consent and relevant to each stage (as identified in the Staging Report) are submitted to the Director-General no later	
than one month prior to the commencement of the relevant stages, unless otherwise agreed by the Director-General.	

s address all requirements of SSI-4951, the EIS, SPIR and the entation.

for the project.

for the project.

t as granted on 20 December 2013. tions commenced in August 2016.

s not propose to construct and/or operate the SSI in stages.

				Pha	se of Pr	roject				
PAR	T A. ADMINISTRATIVE CONDITIONS								Compliance Status	
		DD	BPC	PC	С	PoC	0	D		
Stag	ed Submission of Plans or Programs									
A7.	With the approval of the Director-General, the Applicant may: (a) submit any strategy, plan or program required by this consent on a progressive basis; and/or (b) combine any strategy, plan or program required by this consent.	x	x	x	x	x	x	x	Compliant & Ongoing	The staged approval of Inter by DP&E on 11 May 2018. The staged approval of the C Condition D5(e) was approv Other staged submissions of
Con	pliance	•								
A8.	In the event of a dispute between the Applicant and a public authority, in relation to an applicable requirement in this consent or relevant matter relating to the activity, either party may refer the matter to the Director-General for resolution. The Director-General's determination of any such dispute shall be final and binding on the parties.	x	x	x	x	x	x	x	Compliant & Ongoing	This condition is noted for t

terpretation Plan required under Condition BI was approved B.

e Construction Heritage Management Plan required under roved by DP&E on 18 September 2018.

s of plans/programs will be approved by DP&E as required.

or the project.

	۲ B. PRE-CONSTRUCTION		Phase of Project		Compliance Status					
FAR		DD	BPC	PC	С	PoC	0	D	-	
	Conditions B1 to B8 have been imposed in accordance with the following objectives: (a) To minimise impacts on heritage sites, including sites within the Thompson Square Conservation Area and archaeological sites in, and in the vicinity of, the site;		x	x	x			x	Compliant & Ongoing	A series of investigations have Given the nature of the appro- eliminate heritage impacts. An Archaeological Investigatic undertaken between August a The following reports have be - SCMP - Detailed Archival Recording - Archaeological Research De - Aboriginal Test Excavation R - Historical Test Excavation R - Maritime Test Excavation R - Interpretation Strategy and I - Heritage input to the Urban
	(b) To salvage and interpret any impacted heritage sites, including historical archaeologically significant sites within, and in the vicinity of, the site;		x	x	x			x	Compliant & Ongoing	An Archaeological Investigatic A salvage archaeological excav Further archaeological salvage An Interpretation Plan (Stage a part of this project. Stage 2
	(c) To conduct archival recording and further research of the Thompson Square Conservation Area;		x	x	×			×	Compliant & Ongoing	A Detailed Archival Recording The SCMP Volume 1 provides study area and a more detaile The Construction Heritage M archival recording and interpr of the bridge.
	(d) To enhance and conserve the Thompson Square Conservation Area, the heritage items identified in Table 1 of Appendix 1, with the exception of Item 3 (the Thompson Square lower parkland area) and Item 20 (Windsor Bridge) and any archaeological sites within, and in the vicinity of, the site, while providing for the construction of a replacement bridge at Windsor; and		x	x	x			x	Compliant & Ongoing	The project will have no physi Appendix I, with the exception (Item 20). The visual amenity of the herit bridge project. The height of the reduce visual impact. The west treatment to reduce visual imp While there will be impacts to presents the opportunity to re- consolidating the upper and loc Square's formative years. An Interpretation Plan (Stage the history and significance of Interpretation Plan is in prepara

ave been undertaken to minimise the heritage impact of the works. proved bridge project, it is not possible to fully mitigate or

tion Program (historic, maritime and Aboriginal heritage) was t and October 2016.

been prepared to date:

ng

Designs

Report

Report

Report

d Interpretation Plan (Stage I)

an Design and Landscape Plan (UDLP).

tion Program was undertaken between August and October 2016. cavation commenced in late 2017.

ge and monitoring has occoured during construction.

age 1) has been prepared and interpretation will be implemented as 2 of the Interpretation Plan is in preparation.

ling has been prepared.

des a highly detailed, in-depth history of Thompson Square and the iled significance assessment.

Management Plan will be updated to include requirements for

pretation of the existing bridge prior to commencing the removal

ysical impact on the heritage items identified in Table 1 of tion of the lower parkland areas (Item 3) and Windsor Bridge

eritage items will be unavoidably impacted upon by the approved of the new bridge has been lowered as far as technically feasible to vestern bridge abutment will be the subject of interpretive masonry impact.

to the upper parkland area from the new bridge, the WBRP o reshape and reconfigure the two reserves of Thompson Square, I lower sections and reinstating the unified nature of Thompson

ge I) has been prepared for the study area, which aims to interpret of Thompson Square and Windsor Bridge. Stage 2 of the paration.

PAR	T B. PRE-CONSTRUCTION			Pha	se of P	roject			Compliance Status	
		DD	BPC	PC	С	PoC	0	D	-	
	(e) To incorporate changes in the final design of the SSI, where practical, to achieve Objectives (a), (b) and (d) above.	x							Compliant & Ongoing	Addressed above and in the D
Cul	ural Heritage									
31.	The Applicant shall submit a Strategic Conservation Management Plan (CMP) to the Director-General for the project area on the southern side of the Hawkesbury River as shown in Appendix 2 Strategic Conservation Management Plan study area. The CMP shall be prepared by appropriately qualified and/or experienced heritage consultants. The nominated heritage consultant(s) is to have appropriate experience and skills including land and maritime archaeology, landscape, engineering and built heritage expertise and documented experience in the preparation and implementation of CMPs. The Applicant shall not carry out any pre-construction or construction activities on the southern side of the Hawkesbury River for the SSI before the CMP has been approved by the Director-General. The CMP is to provide for the heritage conservation of the Thompson Square Conservation Area. The CMP shall be prepared in consultation with the Heritage Branch, OEH and in accordance with the relevant guidelines of the NSW Heritage Council and include, but not be limited to: (a) identification of the heritage value of the Thompson Square Conservation Area, including statements of significance for the Thompson Square Conservation Area and any individual listings within the conservation area of any local, state or national heritage items; (b) the development of heritage design principles for the project to retain the heritage significance of the Thompson Square Conservation Area and any individually listed item within the conservation area or in proximity to the site, with the exception of Item 3 (the Thompson Square lower parkland area) and Item 20 (Windsor Bridge) in Table 1 of Appendix 1; (c) specific mitigation measures for the Thompson Square Conservation Area and individually listed items to minimise impact and to ensure that final measures selected are appropriate and the least intrusive option; and (d) changes to the detailed design of the SSI to mitigate heritage impacts.		x						Compliant	The Strategic Conservation M February 2018 which includes - Vol 1: Site ID, Historical and - Vol 2: Physical analysis and F - Vol 3: Specific Information R - Vol 4: Consultation Report (
	The Applicant shall prepare and submit a detailed Interpretation Plan prior to the commencement of pre-construction and construction activities for the Thompson Square Conservation Area including individually listed sites, non-Aboriginal archaeology and Aboriginal archaeology for the approval of the Director-General. The detailed Interpretation Plan must be prepared in consultation with the OEH and include specific media design, content, location and materials, prepared in accordance with the Guidelines of the NSW Heritage Council.		x	x	x				Compliant & Ongoing	The Interpretation Strategy (F 28 March 2017. The Interpretation Plan (Stage 2018. Stage 2 of the Interpretation F
B2.	Prior to the commencement of pre-construction works on the southern side of the Hawkesbury River, the Applicant shall complete a detailed Archival Recording of all historic heritage sites within the Strategic Conservation Management Plan study area in accordance with the Guidelines issued by the NSW Heritage Council and to the satisfaction of the Director-General and in consultation with the NSW Heritage Council. The recording shall include, but not be limited to: (a) detailed survey and analysis of Thompson Square Conservation Area, Windsor Bridge and the immediate surrounds using 3D laser scanning; and (b) photographic and archival recording of all affected heritage sites, as identified in the specialist reports prepared as part of the Environmental Impact Statement for the project. Recording is to be completed. Copies of these recordings should be made available to the Director-General, the NSW Heritage Council, the Local Studies Library and the Local Historical Society in Windsor.		x						Compliant	The Detailed Photographic Ar DP&E on 16 February 2018.

e Design Compliance Report prepared under Condition B8.

Management Plan (January 2018) was approved by DP&E on 23 des the following volumes: and Heritage Status, Rev 4.4 d Policy, Rev 3.7 n Rev 3.5 rt (Issue 2, February 2018).

(Rev 3 February 2017) was submitted to DP&E for information on

age 1) (version 10.0, May 2018) was approved by DP&E on 11 May

n Plan is in preparation.

Archival Recording (Rev 6, 12 February 2018) was approved by

PAR	RT B. PRE-CONSTRUCTION			Pha	se of F	roject			Compliance Status	
		DD	BPC	PC	С	ΡοϹ	0	D	_	
Arc	haeology									
B3.	The Applicant shall undertake an Archaeological Investigation Program comprising Aboriginal and non-Aboriginal Heritage in the project area on the southern side of the Hawkesbury River, prior to the commencement of preconstruction and construction activities in the southern area. The program shall be conducted to the satisfaction of the Director-General and in accordance with: (a) the Heritage Council's Archaeological Assessments Guideline (1996) using a methodology prepared, in consultation with the NSW Heritage Council for non- Aboriginal heritage; and (b) prepared in consultation with the OEH (Aboriginal heritage) and the Aboriginal stakeholders.		x						Compliant	The Aboriginal Archaeologic was approved by DP&E on 1 The Historical and Maritime on DP&E 20 June 16.
	The Archaeological Investigation Program is to be undertaken by an archaeological heritage consultant approved by the Director-General in consultation with the NSW Heritage Council and by the OEH (Aboriginal heritage) and by an Excavation Director who shall demonstrate an ability to comply with the Heritage Council's Criteria for the Assessment of Excavation Directors (July 2011) and in particular must be able to demonstrate compliance with Criterion A.4 that: 'work under any approvals previously granted by the Heritage Council has been completed in accordance with the conditions of that consent and the final report has been submitted to the NSW Heritage Council.		x						Compliant	The AAJV was approved by E Program on 22 March 2016. Anita Yousif, Matthew Kelly, Directors on the 11 May 201
	 The Archaeological Investigation Program shall include archaeological testing and geophysical investigation, as required for the significance assessment. The results of the Archaeological Investigation Program are to be detailed in a Historic Archaeological Report and a Detailed Salvage Strategy comprising the non-Aboriginal and Aboriginal heritage findings. These are to be prepared in consultation with the OEH (Heritage Branch and Aboriginal heritage) and to the satisfaction of the Director-General, and shall include, but not necessarily be limited to: (a) detailed recommendations for further archaeological work; (b) consideration of measures to avoid or minimise disturbance to archaeology sites, where archaeology of historical and Aboriginal heritage archaeological significance are found to be present; (c) where impacts cannot be avoided by construction of the SSI, recommend actions to salvage and interpret salvaged sites, conduct further research and archival recording of the historic heritage and Aboriginal heritage significance; (d) consideration of providing visual evidence of heritage sites within the final landscape design of the SSI to preserve and acknowledge the heritage value of the Thompson Square Conservation Area and the site; (e) management and mitigation measures to minimise impacts due to preconstruction and construction activities; and 		x						Compliant	The Test Excavation Report - Report – Aboriginal Heritage Aboriginal and Historical Arc by DP&E on 1 December 201 The Maritime Archaeological Archaeological Excavation (ve OEH were consulted on the

gical Research Design and Excavation Methodology (v3, 5 July 2016) n 13 July 2016.

ne Archaeological Research Design (4 October 16) was approved by

y DP&E as the Heritage consultant to prepare the Archaeological 6.

ly, Graham Wilson were approved by DP&E as the co-excavation 2016, 30 May 2016 and 24 August 2016 respectively.

ort – Historical Archaeology (24 May 2017), the Test Excavation age (version A, 23 May 2017), and the Detailed Salvage Strategy for Archaeological Heritage (v 2.5, 13 November 2017) were approved 2017.

cal Testing Report and Detailed Salvage Strategy for Maritime (version F, March 2018) was approved by DP&E on 23 March 2018. he development of all documents.

PART	B. PRE-CONSTRUCTION			Pha	se of P	roject			Compliance Status	
		DD	BPC	РС	С	PoC	0	D	-	
	 (f) preparation of a Hawkesbury Region Sand Bodies Study to the satisfaction of the Director-General and undertaken by suitably qualified and experienced persons whose appointment has been approved by the Director-General, in the event that any Pleistocene and/or early Holocene is encountered during the works referred to in condition B3. This study is required to be prepared in consultation with the Department, the OEH and Aboriginal stakeholders and is required to: (i) be undertaken in accordance with a research design and action plan approved by the Director-General prior to the study commencing; (ii) be directed towards locating and evaluating sand bodies likely to contain evidence of early Aboriginal habitation in the Hawkesbury River area, in the project location in areas disturbed by construction of the project, including the existing Windsor Bridge and new bridge locations; (iii) findings are to be made publicly available; and (iv) make recommendations concerning the preservation and future management of any finds. In the event that any Pleistocene and/or early Holocene is encountered, the recommendations of the Hawkesbury Region Sand Bodies Study are to be fully complied with. 	DD	BPC x	PC	c	PoC	0	D	Compliant	Alan Williams was approved b The Hawkesbury Region Sand 2016) was approved by DP&E The Hawkesbury Region Sand on I December 2017. OEH were consulted on the c
B4.	The Applicant shall undertake an Archaeological Investigation Program comprising Aboriginal Heritage in the northern side of the Hawkesbury River project area, prior to the commencement of pre-construction and construction activities in the northern area. The program shall be conducted to the satisfaction of the Director- General and prepared in consultation with the OEH (Aboriginal heritage) and the Aboriginal stakeholders. The results of the Archaeological Investigation Program conducted in the project area on the northern side of the Hawkesbury River are to be detailed in a Historic Archaeological Report and a Detailed Salvage Strategy comprising the Aboriginal heritage findings in northern side of the Hawkesbury River. These are to be prepared in consultation with the OEH (Aboriginal heritage) and to the satisfaction of the Director-General, and shall include but not necessarily be limited to: (a) detailed recommendations for further Aboriginal archaeological work; (b) consideration of measures to avoid or minimise disturbance to Aboriginal sites, where archaeology of Aboriginal heritage archaeological significance are found to be present; (c) where impacts cannot be avoided by construction of the SSI, recommend actions to salvage and interpret salvaged		x						Compliant	As per Condition B3 Combined documents for B3
Hydı 55.	sites, conduct further research and archival recording of the Aboriginal heritage value of each site, and to enhance and preserve the Aboriginal heritage significance;. (d) consideration of providing visual evidence of heritage sites within the final landscape design of the SSI to preserve and acknowledge the Aboriginal heritage value of the northern project area; (e) management and mitigation measures to minimise impacts due to preconstruction and construction activities; and (f) preparation of a Hawkesbury Region Sand Bodies Study as detailed in Condition B3(f) rology The Applicant shall not commence construction of the project on or within those areas likely to alter flood conditions until such time as works identified in the Hydrological Mitigation Report, required under condition C27 have been								Compliant	The Hydrological Mitigation R
	until such time as works identified in the Hydrological Mitigation Report, required under condition C27, have been completed, unless otherwise agreed by the Director-General.			x						information 17 November No 'at property' mitigation

ed by DP&E as the Sand Bodies Expert on 22 March 2016. and Body Study - Research Design and Action Plan (v 4, 16 June P&E on 8 August 2017.

and Bodies Study (v 1.4, 1 November 2017) was approved by DP&E

he development of the Sand Bodies Study.

B3 & B4

n Report (Rev F, 15 November 2017) was submitted to DP&E for 2017.

works are required under the Hydrological Mitigation Report.

				Phas	se of Pr	oject				
PAR	T B. PRE-CONSTRUCTION				•				Compliance Status	
		DD	BPC	PC	С	PoC	0	D		
Urb	an Design & Landscape Plan									
B6.	Terracing is not approved as part of landscaping for the SSI.	x							Compliant	The detailed design removed t the concept design and EIS.
B7.	The Applicant shall prepare an Urban Design and Landscape Plan prior to the commencement of pre-construction and construction activities in the southern side of the Hawkesbury River to guide the landscaping for the project. The Plan shall be prepared in consultation with the OEH, and Hawkesbury Council and shall present an integrated urban design for the project that is sympathetic to the heritage values and significance of the Thompson Square Conservation Area and shall be prepared in accordance with the requirements of condition C47.		x						Compliant	The Urban Design and Landsc to DP&E for information on 1 The Urban Design and Landsc to DP&E for information on 1
Revi	sed Design					•				
В8.	The project is to be revised to incorporate the following amendments. The new design of the SSI shall be provided to the Director-General for approval prior to the commencement of pre-construction and construction activities in the southern side of the Hawkesbury River: (a) the raising of the southern approach road by approximately I metre is not approved. The height/clearance of the southern approach road shall be designed ensure consistency with the EIS; (b) public access to the existing wharf is to be maintained and alternative coach access, arrangements for pedestrians/cyclists and consultation undertaken are to be detailed; (c) access to numbers 4 and 6 Bridge Street is to be maintained at all times. Alternative access arrangements to those proposed shall be investigated to the satisfaction of the Director-General; (d) the northern roundabout shall be designed to ensure consistency with the Austroads Guide to Road Design: Part 4B, particularly in relation to geometry and lane designations. In the event that further design amendments are required as a consequence of compliance with conditions B1 to B7, any such revised designs must be approved by the Director-General.		x						Compliant	The CoA B8 Design Complian 25 May 2018. No further design amendment conditions B1 to B7.

ed the terracing which was proposed at Thompson Square during

dscape Detailed Design Report (September 2017) was submitted n 13 October 2017.

dscape Plan Submissions Report (September 2017) was submitted n 13 October 2017.

liance Report (version 5, 26 April 2018) was approved by DP&E on

ents have been required as a consequence of compliance with

PAR	RT C. ENVIRONMENTAL PERFORMANCE	-		Phas	se of P	roject			Compliance Status	Comm
		DD	BPC	PC	С	PoC	0	D		
Her	itage Impacts									
CI.	During all stages of the project, the Applicant must comply with all programs and reports prepared by the Applicant in accordance with conditions B1 to B8 of this consent.	x	x	x	x	x	x	x	Compliant & Ongoing	All mitigation measures from reports prepare have been incorporated into construction ma relevant.
C2.	In the event that any Pleistocene and/or early Holocene is encountered during any construction activities, condition B3(f) applies as if the relevant construction works were works carried out under condition B3.				x				Compliant & Ongoing	The Hawkesbury Region Sand Bodies Study, included as Appendix G to the approved Cor required under condition D5(e).
C3.	This consent does not allow the Applicant to disturb any human remains found on the site without further approval from the Director-General, and/or the NSW Police Force		x	x	x				Compliant & Ongoing	 Procedures for handling human remains are of Heritage Management Sub-Plan: Section 6.6.1 (Human Remains Procedure) Table 7-1 (Mitigation measure AH8) Section 8-2 (Training) Appendix E: RMS Standard Management Pr Finds. Construction works are being undertaken in Construction Heritage Management Sub-Plan
C4.	 Prior to the commencement of pre-construction works the Applicant shall nominate, for the approval of the Director-General, a specialist Heritage Manager and Heritage Consultant team for the construction works. The consultant(s) shall have appropriate qualifications and experience commensurate with the scope of the works, which shall include land and maritime archaeology, landscape, engineering and built heritage expertise and have demonstrated experience in the implementation of CMPs. During pre-construction and construction works, the specialist Heritage Manager and heritage consultant team shall: (a) advise on the detail design resolution of new works, inspect new works, advise on design and installation of services (to minimise impacts on significant fabric and views) and undertake on-site Heritage inductions; (b) provide input to the compliance reporting required under condition D6; and (c) prepare a report (illustrated by works' photographs) to be submitted to the Director-General for approval within 6 months of the completion of the works which describes the work, any impacts/damage and corrective works carried out and includes a revised Statement of Significance in accordance with NSW Heritage Council guidelines. 		x						Compliant & Ongoing	 The Heritage Manager and Heritage Consulta May 2018. The key personnel are as follows: Heritage Manager: David Marcus (AAJV) Heritage Consultant Team: Land Archaeology: Alan Williams (AAJV) Maritime archaeology: Cosmos Coroneos Landscape: Darren Mansfield (Context La Engineering: Bruno Della Palma (Jacobs) Built Heritage: Kylie Christian (AAJV) CMP: MacLaren North (AAJV). The Alternate Heritage Manager Kylie Christi July 2018. The Alternative Heritage Manager MacLaren 6 November 2018.

repared in accordance with conditions B1 to B8 on management documentation where

udy, required under condition B3(f), has been d Construction Heritage Management Sub-Plan

s are outlined in the approved Construction

ent Procedure – Unexpected Archaeological

ken in compliance with the approved o-Plan.

onsultant Team was approved by DP&E on I llows:

∖AJV) oneos (Cosmos Archaeology) ext Landscape Architects) obs)

Christian (AAJV) was approved by DP&E on 9

Laren North (AAJV) was approved by DP&E on

PART C. ENVIRONMENTAL PERFORMANCE				Pha	se of P	roject			Compliance Status	Comme
		DD	BPC	PC	С	PoC	0	D	•	
C5.	 Within 12 months of completing the work required under conditions B3 and B4, the Applicant shall, in consultation with the NSW Heritage Council, the OEH (Aboriginal heritage) and to the satisfaction of the Director-General, prepare and submit a further report containing: (a) an executive summary of the archaeological programme; (b) the findings of the excavations, including detailed artefact analysis for non- Aboriginal and Aboriginal heritage; (c) the identification of a final repository for finds of non-Aboriginal heritage significance; (d) artefact analysis and Aboriginal Site Impacts Recording Forms (ASIR), and the identification of final storage location for all Aboriginal objects recovered (testing and salvage), prepared in consultation with the Aboriginal stakeholders, the OEH (Aboriginal heritage) and to the satisfaction of the Director-General. (e) detailed information on the excavation including the aim, the context for the excavation, procedures, treatment of artefacts (cleaning, conserving, sorting, cataloguing, labelling, scale photographs and/or drawings, location of repository) and analysis of the information retrieved; (f) nominated repository for the items, which has agreed to take the items; (g) conclusions from the archaeological programme. This information must include a reassessment of the site's heritage significance comprising non-Aboriginal and Aboriginal heritage, statement(s) on how archaeological investigations at this site have contributed to the community's understanding of the Site and other Comparative Site Types and recommendations for the future management of the site/s; (h) details of how this information about the excavations have been publicly disseminated (for example, include copies of press releases, public brochures and information signs produced to explain the archaeological significance of the sites). 				x	x			Pending	The Aboriginal Heritage, and the Non-Aborigin completed within 12 months of completing wo Detailed Salvage Strategy (conditions B3 and B4
Air	Quality									
C6.	The Applicant shall carry out all reasonable and feasible measures to minimise dust generated by the SSI, including wind- blown and traffic-generated dust.		x	x	x			x	Compliant & Ongoing	 Procedures for dust mitigation are outlined in t Management Sub-Plan: Table 6-1 (various mitigation measures) Section 7.2 (Training) Section 7.3 (Monitoring). Construction works are being undertaken in co Construction Air Quality Management Sub-Plar A range of measures have been implemented to covered trucks, spraying polymer or covering s
C7.	During construction, the Applicant shall ensure that: (a) all vehicles on site do not exceed a speed limit of 30 kilometres per hour; (b) all loaded vehicles entering or leaving the site have their loads covered; and (c) all loaded vehicles leaving the site are cleaned of dirt, sand and other materials before they leave the site, to avoid tracking these materials on public roads.		x	x	x				Compliant & Ongoing	These mitigation measures are outlined in Tabl approved Construction Air Quality Managemer Construction works are being undertaken in co Construction Air Quality Management Sub-Plar

boriginal Salvage Excavation Reports are to be ing works undertaken in accordance with and B4)

ned in the approved Construction Air Quality

- en in compliance with the approved Sub-Plan.
- ented to minimise dust including water carts, vering soil stockpiles.
- in Table 6-1 (AQ12, AQ13, AQ15) of the agement Sub-Plan.
- en in compliance with the approved
- Sub-Plan.

				Pha	se of P	roject			Compliance Status	Cor
PAR	RT C. ENVIRONMENTAL PERFORMANCE	DD	BPC	PC	с	PoC	0	D		
Anc	illary Facilities	00	ыс		C	100	U			
C8.	 Unless otherwise approved by the Director-General, the location of Ancillary Facilities shall: (a) be located more than 50 metres from a waterway; (b) be located within or adjacent to land where the SSI is being carried out; (c) have ready access to the road network or direct access to the construction corridor; (d) be located to minimise the need for heavy vehicles to travel through residential areas; (e) be sited on relatively level land; (f) be separated from nearest residences by at least 200 metres (or at least 300 metres for a temporary batching plant); (g) not require vegetation clearing beyond that already required by the SSI; (h) not be located within the Thompson Square Conservation Area; (i) not impact on Heritage items (including identified Aboriginal cultural value and archaeological sensitivity) beyond those already impacted by the SSI and not have any additional impacts to those heritage items impacted by the proposal; (j) not unreasonably affect the land use of adjacent properties; (k) be above the 20 ARI flood level unless a contingency plan to manage flooding is prepared and implemented; and (l) provide sufficient area for the storage of raw materials to minimise, to the greatest extent practical, the number of deliveries required outside standard construction hours. 			x	x			x	Compliant & Ongoing	Location of the main ancillary facility has facility does not meet criteria C8(a), C8((AFA) was prepared and submitted to DI August 2018. The location of the main and minor ancill CEMP.
С9.	Ancillary sites that do not meet the criteria set out in this consent shall be approved by the Director-General prior to establishment. In obtaining this approval, the Applicant shall assess the ancillary facility against the criteria set out in this consent to demonstrate how the potential environmental impacts can be mitigated and managed to acceptable standards. Such assessment(s) can be submitted separately or as part of the Construction Environmental Management Plan required under this consent. The assessment shall include, but not necessarily be limited to: (a) a description of the Ancillary Facility, its components and the surrounding environment; (b) details on the activities to be carried out at the facility, including the hours of use and the storage of dangerous and hazardous goods; (c) an assessment of the environmental impacts on the site and the surrounding environment, including, but not limited to noise, vibration, air quality, traffic access, flora and fauna, heritage and light spill; (d) details on the mitigation, monitoring and management procedures specific to the Ancillary Facility that would be implemented to minimise the environmental impacts or, where this is not possible, feasible and reasonable measures to offset these impacts and an assessment of the adequacy of the mitigation or offsetting measures. This shall include consideration of restrictions on the hours of use or exclusion of certain activities; (e) details on the timing for the completion of activities at the ancillary facility and how the site will be decommissioned (including any necessary rehabilitation); and (f) demonstrate doverall consistency with the approved project. The Applicant shall demonstrate to the satisfaction or operation.			x	x			x	Compliant & Ongoing	The Ancillary Facility Assessment (AFA) f DP&E on 8 August 2018.

as been evaluated against these criteria. As the 8(f) and C8 (k), an Ancillary Facility Assessment DP&E. The AFA was approved by DP&E on 8

cillary facilities are included in Section 2.3 of the

) for the main compound site was approved by

DAD		-		Pha	se of P	roject			Compliance Status	Corr
FAR	T C. ENVIRONMENTAL PERFORMANCE	DD	BPC	PC	С	PoC	0	D	-	
C10.	The Director-General's approval is not required for minor Ancillary Facilities (e.g. lunch sheds, office sheds, and portable toilet facilities, etc.) that do not comply with the criteria set out in condition C8 of this consent and which: (a) are located within an active construction zone within the approved project footprint; and (b) have been assessed by the Environmental Representative to have: (i) no additional adverse impact on the Thompson Square Conservation Area; (ii) minimal amenity impacts to surrounding residences, with consideration to matters such as noise and vibration impacts, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and (iii) minimal environmental impact in respect to waste management, and no impacts on flora and fauna, soil and water, and heritage beyond those approved for the project; and (c) have environmental and amenity impacts that can be managed through the implementation of environmental measures detailed in a CEMP for the project.				x			x Compliant & Ong		The potential locations for the minor Anc the CEMP. Section 3.7.2 of the CEMP out Environmental Representative for minor <i>I</i>
CII.	All Ancillary Facilities shall be rehabilitated to at least their pre-construction condition, unless otherwise agreed by the Director-General.				x			x	Compliant & Ongoing	Rehabilitation will be undertaken at the en This requirement is noted in Section 4.5 o
Haza	rds and Risks									
	 Dangerous goods, as defined by the Australian Dangerous Goods Code, shall be stored and handled strictly in accordance with: (a) all relevant Australian Standards; (b) for liquids, a minimum bund volume requirement of 1100/0 of the volume of the largest single stored volume within the bund; and (c) the Environment Protection Manual for Authorised Officers: Bunding and Spill Management, Technical Bulletin (Environment Protection Authority, 1997). In the event of an inconsistency between the requirements listed from (a) to (c) above, the most stringent requirement shall prevail to the event of the inconsistency. 				x			x	Compliant & Ongoing	This requirement is provided in Table 6-1 Construction Soil and Water Management Construction works are being undertaken Construction Soil and Water Management
Noise	e and Vibration									
C13.	Construction activities associated with the SSI shall be undertaken during the following standard construction hours: (a) 7:00am to 6:00pm Mondays to Fridays, inclusive; and (b) 8:00am to 1:00pm Saturdays; and (c) at no time on Sundays or public holidays.				x			x	Compliant & Ongoing	The construction hours are provided in Ta approved Construction Noise and Vibration Construction works are being undertaken Construction Noise and Vibration Manage have been undertaken in accordance with (Appendix B of the sub-plan).
C14.	Construction works outside of the standard construction hours identified in condition C13 may be undertaken in the following circumstances: (a) construction works that generate noise that is: (i) no more than 5 dB(A) above rating background level at any residence in accordance with the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009); and (ii) no more than the noise management levels specified in Table 3 of the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009) at other sensitive receivers; or (b) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or (c) where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm; or (d) works as approved through the out-of-hours work protocol outlined in the CEMP.				x			x	Compliant & Ongoing	Procedures for construction work outside approved Construction Noise and Vibratio • Table 8-1 (mitigation measure NV2) • Appendix B: Out of Hours Works Proto Any out of hours works have been undert Works Protocol (Appendix B of the sub-p

ncillary Facilities are shown in Section 2.3 of utlines the process of approval by the r Ancillary Facilities.

end of construction.

of the Ancillary Facility Assessment (AFA).

5-1 (mitigation measure SW45) of the approved ent Sub-Plan.

en in compliance with the approved ent Sub-Plan.

Table 8-1 (mitigation measure NV2) of the ation Management Sub-Plan.

en in compliance with the approved agement Sub-Plan. Any out of hours works th the Out of Hours Works Protocol

ide of standard hours are documented in the ation Management Sub-Plan:

otocol.

ertaken in accordance with the Out of Hours p-plan).

PAD.	Γ C. ENVIRONMENTAL PERFORMANCE	-		Pha	se of P	roject			Compliance Status	Com
FAR		DD	BPC	PC	С	PoC	0	D		
	Activities resulting in impulsive or tonal noise emission (such as rock breaking, rock hammering, pile driving) shall only be undertaken: (a) between the hours of 8:00 am to 5:00 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 hours each with a minimum respite from those activities and works of not less than one hour between each block. For the purposes of this condition 'continuous' includes any period during which there is less than a one hour respite between ceasing and recommencing any of the work the subject of this condition.				x			x	Compliant & Ongoing	These mitigation measures are documente Vibration Management Sub-Plan: • Table 8-1 (mitigation measure NV4 and • Appendix B: Out of Hours Works Protoc Construction works are being undertaken Construction Noise and Vibration Manage
	Wherever feasible and reasonable, piling activities shall be undertaken using quieter alternative methods than impact or percussion piling, such as bored piles or vibrated piles.				x			x	Compliant & Ongoing	Provided in Table 8-1 (mitigation measure Vibration Management Sub-Plan. It is noted in Section 6.1 that impact piling bored piling shall be used for terrestrial we Construction works are being undertaken Construction Noise and Vibration Manage
C17.	Where feasible and reasonable, operational noise mitigation measures shall be implemented at the start of construction (or at other times during construction) to minimise construction noise impacts.			x	x				Compliant	Architectural treatments for noise mitigation properties, as required by the EIS/Submissi offer.
	All feasible and reasonable noise mitigation measures shall be implemented and any activities that could exceed the construction noise management levels shall be identified and managed in accordance with the CEMP. Note: The Interim Construction Noise Guideline identifies 'particularly annoying' activities that require the addition of 5dB(A) to the predicted level before comparing to the construction NML.				x			x	Compliant & Ongoing	Provided in Table 8-1 (mitigation measure and Vibration Management Sub-Plan. Construction works are being undertaken Construction Noise and Vibration Manager
C19.	The SSI shall be constructed with the aim of achieving the following construction vibration goals: (a) for structural damage, the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration - effects of vibration on structures; and (b) for damage to other buildings and/or structures, the vibration limits set out in the British Standard BS 7385-1:1990 — Evaluation and measurement for vibration in buildings. Guide for measurement of vibration and evaluation of their effects on buildings; and (c) for human exposure, the acceptable vibration values set out in the Environmental Noise Management Assessing Vibration: A Technical Guideline (Department of Environment and Conservation, 2006).				x			x	Compliant & Ongoing	Section 5.4 of the approved Construction
C20.	Unless otherwise agreed by the Director-General, within 6 months of commencing construction, the Applicant shall, in consultation with the EPA, prepare and submit for the approval of the Director-General, a review of the operational noise mitigation measures proposed to be implemented for the project. The review shall: (a) confirm the operational noise predictions of the project based on detailed design. This operational noise assessment shall be based on an appropriately calibrated noise model (which has incorporated additional noise monitoring, where necessary for calibration purposes); (b) review the suitability of the operational noise mitigation measures identified in the documents listed under condition A2 to achieve the criteria outlined in condition C14 based on the operational noise performance of the project predicted under (a) above; and (c) where necessary, investigate additional feasible and reasonable noise mitigation measures to achieve the criteria outlined in the Road Noise Policy (DECCW, 2011).				x				Compliant & Ongoing	An operational noise review will be submit months of commencing construction.
	During construction, affected educational institutions shall be consulted and reasonable steps taken to ensure that noise generating construction works in the vicinity of affected buildings are not timetabled during examination periods where practicable, unless other reasonable arrangements to the affected institutions are made at no cost to the affected institution.				x				Compliant & Ongoing	Provided in Table 8-1 (mitigation measure and Vibration Management Sub-Plan. It is noted that nearest educational facility i anticipated to be impacted by noise or vibr Educational institutions have been consulte Community Communication Strategy.
C22.	The SSI shall be operated with the objective of not exceeding the road noise criteria outlined in the NSW Road Noise Policy (DECCW, 2011).	x							Compliant & Ongoing	The SSI will be operated with the objective outlined in the NSW Road Noise Policy (D

nted in the approved Construction Noise and

nd NV5)

otocol.

en in compliance with the approved

gement Plan Management Sub-Plan.

re NV26) of the Construction Noise and

ng shall only be used for non-terrestrial piling, works.

en in compliance with the approved gement Plan Management Sub-Plan.

ation have been installed at residential issions Report. One resident declined the

re NV6) of the approved Construction Noise

en in compliance with the approved gement Plan Management Sub-Plan

on Noise and Vibration Management Plan.

mitted to the DP&E for approval within 6

re NV9) of the approved Construction Noise

ty is approximately 850m distant and is not ibration.

lted in compliance with the approved

tive of not exceeding the road noise criteria (DECCW, 2011).

DAT				Phas	se of P	roject			Compliance Status	Con
PAR	T C. ENVIRONMENTAL PERFORMANCE	DD	BPC	PC	с	PoC	0	D		
Soil a	and Water Quality					1.00				
	Soil and water management measures consistent with Managing Urban Stormwater - Soils and Construction Vol I (Landcom, 2004) shall be employed during the construction of the SSI to minimise soil erosion and the discharge of sediment and other pollutants to land and/or waters.		x	x	x	x		x	Compliant & Ongoing	Soil and water management measures con Soils and Construction Vol I (Landcom, 2 Construction Soil and Water Managemen Works have been undertaken in complian Water Management Plan.
C25	The Applicant shall prepare and implement a Water Quality Management Program to monitor and minimise the impacts of the project on surface and groundwater quality and resources and wetlands, during construction and operation of the SSI. The Program shall be developed in consultation with the OEH, EPA, DPI (Fishing and Aquaculture) and NOW and shall include but not necessarily be limited to: (a) identification of surface and groundwater quality monitoring locations (including watercourses and waterbodies) which are representative of the potential extent of impacts from the project; (b) the results of the groundwater modelling undertaken under this consent; (c) identification of works and activities during construction and operation of the project, including emergencies and spill events, that have the potential to impact on surface water quality of potentially affected waterways; (d) development and presentation of parameters and standards against which any changes to water quality 2000 (Australian and New Zealand Environment Conservation Council, 2000); (e) representative background monitoring of surface and groundwater quality parameters for a minimum of six months (considering seasonality) prior to the commencement of construction, to establish baseline water conditions, unless otherwise agreed by the Director-General; (f) a minimum monitoring period of three years following the completion of construction or until the affected waterways and/ or groundwater resources are certified by an independent expert as being rehabilitated to an acceptable condition. The monitoring shall also confirm the establishment of operational water control measures (such as sedimentation basins and vegetation swales); (g) contingency and ameliorative measures in the event that adverse impacts to water quality are identified; (h) reporting of the monitoring results to the Department, OEH, EPA and NOW. The Program shall be submitted to the Director-General for approval 6 months prior to the commencement of construction		x	x	x	x	x	x	Compliant & Ongoing	The Water Quality Management Program by DP&E on 2 Aug 17. On-going monitoring has occurred and so the comencement of construction. A Stage 2 detailed site investigation was ur and only a low risk of contamination was in
	General, in areas identified as having a moderate to high risk of contamination, a site audit shall be carried out by a site auditor. A site audit report is to be prepared by the site auditor detailing the outcomes of Phase 2 contamination investigations within these areas. The site audit report shall detail, where relevant, whether the land is suitable (for the intended land use) or can be made suitable through remediation. A site audit statement(s) must be prepared verifying that the site has been remediated to a standard consistent with the intended land use. The site audit statement(s) shall be submitted to the Director-General prior to operation of the SSI, unless otherwise agreed by the Director-General. Note: Terms used in this condition have the same meaning as in the Contaminated Land Management Act 1997.			x	x	x				and only a low risk of contamination was audit statement was not required under C
Hydr	ology and Flooding									
	The Applicant shall ensure, where feasible and reasonable, that the project is designed to not exceed the efflux and other flooding criteria within the vicinity of the project as identified or predicted in the documents listed under condition A2.	x							Compliant	The Hydrological Mitigation Report (Rev I DP&E for information on17 November 20

consistent with Managing Urban Stormwater n, 2004) are outlined in the approved ent Sub-Plan.

liance with the approved Construction Soil and

am (WQMP)(Rev 0, June 2017) was approved

schedule reporting is due 6 months prior to

s undertaken on 28 May 2012 as part of the EIS ras identified. As such, a site audit report and er CoA C25.

ev F, 15 November 2017) was submitted to - 2017.

]		Phas	se of P	roject			Compliance Status	Com
PAR	T C. ENVIRONMENTAL PERFORMANCE	DD	BPC	PC	С	PoC	0	D		
C27	The Applicant shall develop a Hydrological Mitigation Report for properties in the Hawkesbury River floodplain areas where flood impacts are predicted to increase as a result of the project. The Report shall be based on detailed floor level survey and associated assessment of potentially flood affected properties in those areas. The Report shall: (a) identify properties in those areas likely to have an increased flooding impact and detail the predicted increased flooding impact; (b) identify mitigation measures to be implemented where increased flooding is predicted to adversely affect access, property or infrastructure; (c) identify measures to be implemented to minimise scour and dissipate energy at locations where flood velocities are predicted to increase as a result of the project and cause localised soil erosion and/or pasture damage; (d) be developed in consultation with the relevant Council, NSW State Emergency Service and directly-affected property owners; and (e) identify operational and maintenance responsibilities for items (a) to (c) inclusive.			x					Compliant	The Hydrological Mitigation Report (Rev F DP&E for information on I7 November 20
C28	Based on the mitigation measures identified in this consent, the Applicant shall prepare a final schedule of feasible and reasonable flood mitigation measures proposed at each directly-affected property in consultation with the property owner. The schedule shall be provided to the relevant property owner(s) prior to the implementation/ construction of the mitigation works, unless otherwise agreed by the Director-General. A copy of each schedule of flood mitigation measures shall be provided to the Department and the relevant Council prior to the implementation/ construction of the mitigation measures on the property.			x					N/A	Not required as no 'at property' mitigation Mitigation Report (CoA C27).
C29	In the event that the Applicant and the relevant property owner cannot agree on feasible and reasonable flood mitigation measures to be applied to a property within one month of the first consultation on the measures (as required by this consent), the Applicant shall employ a suitably qualified and experienced independent hydrological engineer, who has been approved by the Director-General, to resolve this dispute prior to the commencement of construction in the floodplain areas affected by increased afflux from the project. The independent hydrological engineer shall advise and assist affected property owners in negotiating feasible and reasonable mitigation measures.			x					N/A	Not required as no 'at property' mitigation Mitigation Report (CoA C27).
C30	The Applicant shall provide assistance to the relevant council and/ or NSW State Emergency Service, to assist in the preparation of any new or necessary update(s) to the relevant plans and documents in relation to flooding, to reflect changes in flooding levels, flows and characteristics as a result of the project.			x					Compliant	Council and the SES were consulted with o Mitigation Report, and were provided a co
C31	If a flood event occurs during construction the works on-site shall be suspended if instructed by either the Applicant or emergency services. The Applicant shall keep Hawkesbury City Council informed of the status of the works during a flood event and before recommencing activity after the peak of a flood event.				x				Compliant & Ongoing	Both the Hawkesbury City Council and the flood event. Mitigation measures (F17 and F39) are pro and Evacuation Plan to address this require
C32	A flood warning sign of durable material shall be permanently fixed in a prominent location within the vicinity of the SSI. The sign shall advise members of the public that the area may be subject to inundation during times of flood. The design and location of this sign shall be determined in consultation with Hawkesbury City Council, the OEH and submitted for the approval of the Director-General prior to operation.	x				x			Compliant & Ongoing	Council and OEH have been consulted reg warning signs. RMS will obtain approval from DP&E for th
C33	The outlet structure for the water quality basin must be consistent with the Controlled Activities on Waterfront Land: Guidelines for Outlet Structures on Waterfront Land (NSW Office of Water, July 2012).	x							Compliant	The proposed water quality basin discharg on the northern bank of the river, which n to the Hawkesbury River from the basin. A applicable.

v F, 15 November 2017) was submitted to 2017.

tion works are required under the Hydrological

tion works are required under Hydrological

th during the development of the Hydrological a copy of the final report.

the SES will be continually informed during a

provided in Table 5-1 of the Flood Warning irrement.

regarding the design and location of the flood

the flood warning signs prior to operation.

arges upstream of an existing outlet structure in means water is not being directly discharged in As this is the case, the Guideline is not

	T C. ENVIRONMENTAL PERFORMANCE	-		Phas	se of P	roject			Compliance Status	Con
PAR		DD	BPC	PC	С	PoC	0	D		
	iversity	1	1	1	_		1	1	1	1
C34	A riparian corridor consisting of vegetation from the relevant local native vegetation communities shall be established								Compliant & Ongoing	Refer Section 3 of the Vegetation Manager
	along the Hawkesbury River bank areas disturbed by the project with the exception of those areas required for scour									Urban Design and Landscape Detailed De
	protection for the safety of the bridge. The riparian corridor is to be consistent with the Controlled Activities on				x	x				
	Waterfront Land: Guidelines for Riparian Corridors on Waterfront Land (NSW Office of Water, July 2012).									
C35	A Vegetation Management Plan (VMP) is to be prepared consistent with the Controlled Activities on Waterfront Land:								Compliant & Ongoing	The Vegetation Management Plan (Rev 0,
ł	Guidelines for Vegetation Management Plan on Waterfront Land (NSW Office of Water, July 2012) that demonstrates				x	x				information on 4 June 18.
l	the protection of remnant native riparian vegetation and the rehabilitation of the riparian corridor. The VMP must be				^	Â				
<u> </u>	complied with.									C
C36	Seed sources used for the rehabilitation of the riparian corridor are to be from local native botanical provenance where possible.								Compliant & Ongoing	Seed sources are considered in: • Table 6-1 (mitigation measure FF14) in t
ł	possible.				x	x				Management Sub-Plan.
										 Section 6 of the Vegetation Managemen
C37	A minimum two year monitoring and maintenance period is required for the riparian zone commencing after final								Compliant & Ongoing	Refer Section 7.5 of the Flora and Fauna N
1	planting, or until such time as a minimum 80 per cent survival rate of each species planted and a maximum 5 per cent									Vegetation Management Plan (Rev 0, June
	weed cover for the treated riparian corridor is achieved. The monitoring program is to include weed control monitoring.					x	x			
Was	Le Management	<u> </u>			İ					
C38	The Applicant shall maximise the reuse and/or recycling of waste materials generated on site as far as practicable, to								Compliant & Ongoing	Refer Section 5.4 and Table 6.1 (mitigation
l	minimise the need for treatment or disposal of those materials off site.		x	x	x			x		Construction Waste Management Sub-Pla
					~					The works are being conducted in compli Management Sub-Plan.
C39	All waste materials removed from the site shall only be directed to a waste management facility or premises lawfully								Compliant & Ongoing	Refer Section 5.6 and Table 6.1 (mitigation
ł	permitted to accept the materials.		x	x	x			x		Waste Management Sub-Plan.
				Â				^		The works are being conducted in compli
										Management Sub-Plan.
C40	All liquid and/or non-liquid waste generated on the site shall be assessed and classified in accordance with Waste								Compliant & Ongoing	Refer Section 5.3 and Table 6.1 (mitigation
l	Classification Guidelines (Department of Environment, Climate Change and Water, 2009), or any superseding document.		x	x	x			x		Management Sub-Plan.
										The works are being conducted in compli- Management Sub-Plan.
Utili	ties and Services									
C41	Utilities, services and other infrastructure potentially affected by construction and operation of the SSI shall be identified								Compliant & Ongoing	All relevant utility service providers were
	prior to construction to determine requirements for access to, diversion, protection, and support. Consultation with the									Utilities relocation has been undertaken a
	relevant owner and/or provider of services that are likely to be affected by the SSI shall be undertaken to make suitable			~						construction.
	arrangements for access to, diversion, protection, and/or support of the affected infrastructure as required. The cost of			x						
	any such arrangements shall be borne by the Applicant, or carried out in accordance with existing agreements.									
C42	The cost of repairing any damage to existing utilities or services shall by borne by the Applicant.								Compliant & Ongoing	This condition is noted.
				×	x			x		
C43	The existing 50mm rising sewer main that is attached to the existing Windsor Bridge that services Hawkesbury City								Compliant & Ongoing	This condition has been considered in the
	Council's toilet block in Macquarie Park is to be relocated prior to the commencement of works at the existing Windsor Bridge.			x	x			x		
	sport and Access		1	1	1		1	ı 1	-	1
C44	The SSI shall be designed with the objective of minimising adverse changes to existing access and services for other								Compliant	The new bridge will provide improved acc
	transport modes and, where feasible, and reasonable facilitate an improved level of access and service to other transport	x								not limited to: an additional lane, greater l
	modes compared to the existing situation.									shared use pathway.
C45	Access to private property shall be maintained during construction unless otherwise agreed with the property owner in								Compliant & Ongoing	Access to private property shall be mainta
l	advance. A landowner's access that is physically affected by the SSI shall be reinstated to at least meet the relevant				x			x		Section 5.5 of the approved Construction
	Australian standard, in consultation with the property owner.									The works are being conducted in complia
										Sub-Plan.

agement Plan (Rev 0, June 18) and the Design Report (September 2017).

0, June 18) was submitted to DP&E for

in the Construction Flora and Fauna

nent Plan (Rev 0, June 18).

na Management Plan and Section 9 and 11 of the ine 18).

tion measure WM7) of the approved Plan.

pliance with the approved Construction Waste

tion measure WM23) of the Construction

pliance with the approved Construction Waste

tion measure WM8) of the Construction Waste

pliance with the approved Construction Waste

ere consulted during the detailed design process. n and will be an ongoing task during

the detailed design.

access for all transport modes, including but er lane widths, improved approaches and a

intained during construction, as outlined in ion Traffic Management Sub-Plan. Ipliance with the approved Traffic Management

D 4 5		-		Pha	se of Pi	roject			Compliance Status	Con
PAR	T C. ENVIRONMENTAL PERFORMANCE	DD	BPC	PC	с	PoC	0	D		
C46	Any proposed closure of the right turn movement from Bridge Street southbound into George Street shall be sequenced								Compliant & Ongoing	This closure has been considered during
	to occur outside business hours (9:00am to 5:00pm Monday to Friday). Hawkesbury City Council shall be provided with				x					Management Sub-Plan.
	a minimum one month notice of any planned closure in writing.									
Urba	n Design and Landscaping									
	The Urban Design and Landscape Plan referred to in condition B7 must be prepared and implemented and the works								Compliant & Ongoing	The Urban Design and Landscape Detailed
	approved by that Plan must be completed within 12 months of the commissioning of the project. The Plan shall be									submitted to DP&E for information on 13
	prepared in consultation with the OEH, and Hawkesbury Council and shall be consistent with the CMP referred to in									Consultation on the Urban Design and La
	condition B1 and include, but not necessarily be limited to:									of the consultation is provided in the Urb
	(a) the proposed landscaping of Thompson Square Conservation Area, as shown on the map in Appendix 2 Strategic									Report (September 2017), which was sub
	Conservation Management Plan study area;									October 2017.
	(b) use of the heritage design principles developed under the CMP, and take into account appropriate landscaping in the									
	vicinity of heritage items to minimise heritage impacts;									
	(c) a description of locations along the project corridor directly or indirectly impacted by the construction of the project									
	(e.g. temporary ancillary facilities, access tracks, etc.) and details of the strategies to progressively rehabilitate regenerate		x		x	x				
	and/or revegetate the locations with the objective of promoting biodiversity outcomes and visual integration. Details of									
	species to be replanted/ revegetated shall be provided, including their appropriateness to the area and considering									
	existing vegetation and habitat for threatened species; NSW (d) location of existing vegetation and proposed landscaping									
	(including use of indigenous and endemic species where possible) and design features;									
	(e) graphics such as sections, perspective views and sketches for key elements of the project (including, but not limited to									
	built elements such as retaining walls, cuttings, abutments and street furniture);									
	(f) final design details of the proposed external materials and finishes, including schedules and a sample board of materials									
	and colours; including justification for sustainability of materials including design and installation techniques as well as long									
	term maintenance and their suitability in terms of:									
	(i) function (ability to withstand heavy vehicle usage and public setting);									As above
	(ii) architectural period/style (respecting the simple Colonial Georgian style);									
	(iii) landscape suitability (i.e. suited to both usage and context); and									
	(iv) heritage context.									
	(g) location and design treatments for any associated footpaths and cyclist elements, and other features such as seating,									
	lighting (in accordance with AS 4282-1997 Control of the Obtrusive Effect of Outdoor Lighting), fencing, and signs;									
	(h) take into account appropriate roadside plantings and landscaping in the vicinity of heritage items and ensure no									
	additional heritage impacts;									
	(i) detailed design drawings of the proposed works including, but not limited to, road pavements, pedestrian pavements,									
	kerb treatments, abutments, garden beds;									
	(j) strategies for progressive landscaping of other environmental controls such as erosion and sedimentation controls,									
	drainage and noise mitigation;									
	(k) the lighting, street furniture and other fixtures shall be consistent with Crime Prevention Through Environmental									
	Design Principles (CPTED) where possible;									
	(I) the installation of services to support events such as lighting, electricity, water, sewer, vehicle access and communications technology should be considered and be inherent in the design. Refer to Council's Sustainable events									
	Policy (on Council's web site:									
	<pre>concil.hawkesburv.nsw.00v.au/masterviewui/modules/documentmaster/qetdocument.aspx?docsetid=3701656>;</pre>									
	(m) monitoring and maintenance procedures for the vegetated built elements, rehabilitated vegetation and landscaping									
	(including weed control) including performance indicators, responsibilities, timing and duration and contingencies where									
	rehabilitation of vegetation and landscaping measures fail; and									
	(n) evidence of consultation with the NSW Heritage Council, Hawkesbury City Council and community on the proposed					1				
	strategy prior to its finalisation.									
• •						<u> </u>				
C48	External Lighting shall comply with AS4282: 1997 Control of the Obtrusive Effects of Outdoor Lighting. Upon installation					1			Compliant & Ongoing	Independent certification will be produced
	of External Lighting, but before it is finally commissioned, the Applicant shall submit to the Certifying Authority, in					1				contractor but prior to commissioning.
	consultation with the relevant Council, evidence from an independent qualified practitioner demonstrating compliance in				x	1				
	accordance with this condition.	1	1	1	1	1	1	1		1

ng preparation of the Construction Traffic

ailed Design Report (September 2017) was 13 October 2017.

Landscape Plan was undertaken and outcomes Irban Design and Landscape Plan Submissions submitted to DP&E for information on 13

ced once the street lights are installed by the

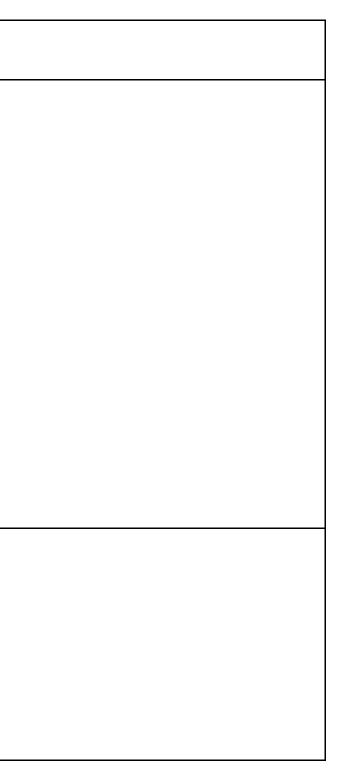
				Pha	se of Pr	oject			Compliance Status	Comments
PAF	T D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	DD	BPC	PC	с	PoC	0	D		
Envi	ronmental Management		1 2. 0			1.00				
DI	The Applicant shall engage a suitably qualified person to prepare a pre-construction dilapidation report prior to the commencement of construction and a post-construction dilapidation report at the completion of construction works. These reports are to ascertain the: (a) structural condition of local roads likely to be used by the project's construction traffic identified in the Traffic Management Sub-plan required under condition D5(a). (b) structural condition of footpaths, buildings and other utilities in the vicinity of the SSI; (a) whether the construction works resulted in any structural damage to roads, buildings and other utilities in the vicinity of the SSI. In ascertaining whether adverse structural damage has occurred to adjoining buildings, infrastructure and roads, the post-construction with the pre-construction dilapidation report; and (ii) have written confirmation from the relevant authority that there is no adverse structural damage to their infrastructure and roads. The pre-construction and post-construction dilapidation reports shall be prepared in consultation with Hawkesbury City Council and submitted for the approval of the Director-General.		x	x		x			Compliant & Ongoing	Pre-construction submitted to the l consent was obtai reports.
D2	The Applicant shall undertake road pavement deflection testing of the construction truck routes at 20 metre intervals along all wheel paths prior to commencement of construction. At completion of construction, the Applicant shall undertake road pavement deflection testing of the truck routes. If the deflection tests show an increase in defection, the Applicant shall undertake number are pavement rehabilitation of the affected road pavements to achieve the pavement deflection that existing prior to the commencement of works.			x		x			Compliant & Ongoing	Road deflection to
D3	The Applicant shall bear the cost of all repair works to Hawkesbury City Council's property damaged during the course of				×				Compliant & Ongoing	This condition is r
	construction of the SSI.				x					
Con	struction Environmental Management Plan (CEMP)								÷	-
D4	The Applicant shall prepare and (following approval) implement a Construction Environmental Management Plan for the project. The Plan shall outline the environmental management practices and procedures that are to be followed during construction, and shall be prepared in consultation with the relevant agencies and in accordance with the Guideline for the Preparation of Environmental Management Plans (Department of Infrastructure, Planning and Natural Resources, 2004). The Plan shall include, but not necessarily be limited to: (a) a description of activities to be undertaken during construction of the project or stages of construction, as relevant; (b) statutory and other obligations that the Applicant is required to fulfil during construction with relevant agencies shall be included identifying how issues raised by these agencies have been addressed in the CEMP; (c) a description of the roles and responsibilities for relevant employees, including contractors and sub-contractors are aware of their environmental and compliance obligations under these conditions of consent; (d) identification of ancillary facility site locations, including an assessment against the location criteria outlined in this consent;			x	x			x	Compliant & Ongoing	

n dilapidation reports have been prepared for the project and e DP&E on 27 July 2018, and 5 September 2018, where owner tained. DPE to approve following submission of post completion

testing has been undertaken for the project.

s noted for the project.

			Phas	se of Pr	oject			Compliance Status	Comment
D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	DD	BPC	PC	с	PoC	0	D	-	
(e) an environmental risk analysis to identify the key environmental performance issues associated with the construction phase	00	bie			100				As above
and details of how environmental performance would be monitored and managed to meet acceptable outcomes including what									
actions will be taken to address identified potential adverse environmental impacts. In particular, the following environmental									
performance issues shall be addressed in the Plan:									
(i) measures to monitor and manage dust emissions including dust from stockpiles, blasting, traffic on unsealed public roads and									
materials tracking from construction sites onto public roads;									
(ii) measures to minimise hydrology impacts, including measures to stabilise bed and bank structures as required,									
(iii) measures to monitor and manage impacts associated with the construction and operation of ancillary facilities,									
(iv) measures for the handling, treatment and management of contaminated materials,									
(v) measures to monitor and manage waste generated during construction including but not necessarily limited to: general									
procedures for waste classification, handling, reuse, and disposal; use of secondary waste material in construction wherever									
feasible and reasonable; procedures for dealing with green waste including timber and mulch from clearing activities; and									
measures for reducing demand on water resources (including the potential for reuse of treated water from sediment control									
basins);									
(vi) measures to monitor and manage spoil, fill and materials stockpile sites including details of how spoil, fill or material would be									
handled, stockpiled, reused and disposed and a stockpile management protocol detailing locational criteria that would guide the									
placement of stockpiles and management measures that would be implemented to avoid/ minimise amenity impacts to									
surrounding residents and environmental risks (including to surrounding water courses). Stockpile sites that affect heritage,									
threatened species, populations or Endangered Ecological Communities require the approval of the Director-General, in									
consultation with the OEH;									
(vii) measures to monitor and manage hazard and risks including emergency management; and									As above
(viii) the issues identified in condition D7;									
(f) details of community involvement and complaints handling procedures during construction, consistent with the requirements									
of conditions DI I to DI3;									
(g) details of compliance and incident management consistent with the requirements of conditions D7 and D8 ; and									
(h) procedures for the periodic review and update of the CEMP and sub-plans required under this consent respectively, as									
necessary (including where minor changes can be approved by the Environmental Representative).									
The Plan shall be submitted for the approval of the Director-General no later than one							1		
month prior to the commencement of construction, or within such period otherwise agreed by the Director-General.							1		
Construction works shall not commence until written approval has been received from the Director-General.							1		
							1		
							1		
							1		



PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	4		Pha	se of Pi	roject			Compliance Status	Comments
PART D. ENVIRONMENTAL MANAGEMENT, REFORTING & AUDITING	DD	BPC	PC	С	ΡοϹ	0	D	-	
 As part of the CEMP for the project, the Applicant shall prepare and implement the following sub plan(s): (a) a Construction Traffic Management Sub-plan, prepared in accordance with the Roads and Maritime Service's QA Specification G10 — Control of Traffic and Traffic Control at Work Sites Manual (2003) to manage disruptions to traffic movements as a result of construction traffic associated with the project. The sub-plan shall be developed in consultation with the relevant council and shall include, but not necessarily be limited to: (i) identification of construction traffic routes and quantification of construction traffic volumes (including heavy vehicle/ spoil haulage) on these routes; (ii) details of vehicle movements for construction sites and site compounds including parking, dedicated vehicle turning areas, an ingress and egress points; (iii) details of potential impacts to traffic on the existing road network, including, intersection level of service and potential disruptions to pedestrians, public transport, parking, cyclists and property access; (iv) details of temporary and interim traffic arrangements to address potential impacts; (v) a response procedure for dealing with traffic incidents; and (vi) mechanism for the monitoring, review and amendment of this sub-plan. 	d		x	x			x	Compliant & Ongoing	The Construction ⁻ by DP&E on 14 Sep Works are being u Management Sub-P
 (b) a Construction Flora and Fauna Management Sub-plan to detail how construction impacts on ecology will be minimized and managed. The sub-plan shall be developed in consultation with the OEH and DPI (Fishing and Aquaculture) and shall include but not necessarily be limited to: (i) details of pre-construction surveys undertaken by a suitably qualified and experienced ecologist to verify the construction boundaries/ footprint of the project based on detailed design and to confirm the vegetation to be cleared as part of the project (including tree hollows, threatened flora and fauna species and riparian vegetation); (ii) updated sensitive area/ vegetation maps based on (i) above and previous survey work; (iii) details of general work practices and mitigation measures to be implemented during construction to minimise impacts on native fauna and native vegetation (particularly threatened species and EECs) not proposed to be cleared as part of the project, including, but not necessarily limited to: fencing of sensitive areas, a protocol for the removal and relocation of fauna during clearing, engagement of a suitably qualified and experienced ecologist to identify locations where they would be present to oversee clearing activities and facilitate fauna rescues and re-location, clearing timing with consideration to breeding periods, measures for maintaining existing habitat features (such as bush rock and tree branches etc), seed harvesting and appropriate topsoil management, construction worker education, weed management (including controls to prevent the introduction or spread of Phytophthora cinnamomi), erosion and sediment control and progressive re-vegetation; (iv) specific procedures to deal with EEC/ threatened species inticipated to be encountered within the project corridor includir re-location, of the OEH, determination of appropriate mitigation measures; (v) a procedure for dealing with unexpected EEC/threatened species identified during construction i	g		x	x			x	Compliant & Ongoing	The Construction f was approved by D Works are being ur and Fauna Managen

on Traffic Management Sub Plan (Rev E, Sept 2018) was approved Sept 2018.

g undertaken in compliance with the approved Construction Traffic p-Plan.

on Flora and Fauna Management Sub Plan (Revision 0, August 2018) v DP&E on 14 Sept 2018.

g undertaken in compliance with the approved Construction Flora gement Sub-Plan.

RT D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING			Pha	se of Pr	oject			Compliance Status	Comments
T D. ENVIRONMENTAL MANAGEMENT, REPORTING & ADDITING	DD	BPC	PC	С	PoC	0	D	-	
 (c) a Construction Noise and Vibration Management Sub-plan to detail how construction noise and vibration impacts will be minimised and managed. The sub-plan shall be developed in consultation with the EPA and include, but not necessarily be limited to: (i) identification of nearest sensitive receptors and relevant construction noise and vibration goals applicable to the project; (ii) identification of key noise and/or vibration generating construction activities (based on representative construction scenarios, including at ancillary facilities) that have the potential to impact on surrounding sensitive receivers including expected noise/ vibration levels; (iii) identification of feasible and reasonable measures proposed to be implemented to minimise construction noise and vibration impacts (including construction traffic noise impacts); (iv) procedures for dealing with out-of-hours works in accordance with condition C14, including procedures for notifying the Director-General concerning complaints received in relation to the extended hours approved under condition C14; (v) procedures and mitigation measures to ensure relevant vibration and blasting criteria are achieved, including a suitable blast program, applicable buffer distances for vibration intensive works, use of low-vibration generating equipment/ vibration dampeners or alternative construction methodology, and pre- and post- construction dilapidation surveys of sensitive structures where blasting and/ or vibration is likely to result in damage to buildings and structures (including surveys being undertaken immediately following a monitored exceedence of the criteria); (vi) procedures for notifying sensitive receivers of construction activities that are likely to affect their noise and vibration amenity, as well as procedures for construction monitoring clearly indicating monitoring frequency, location, how the results of this monitoring would be recorded and, procedures to be followed whe		BPC	x	x	PoC	0	x	Compliant & Ongoing	The Construction 2018) was approve Works are being u and Vibration Mana
 (d) a Construction Soil and Water Quality Management Sub-plan to manage surface and groundwater impacts during construction of the project. The subplan shall be developed in consultation with the OEH, EPA, DPI (Fishing and Aquaculture) and NOW and include, but not necessarily be limited to: (i) identification of potential sources of erosion and sedimentation, and water pollution (including those resulting from maintenance activities); (ii) details of how construction activities would be managed and mitigated to minimise erosion and sedimentation consistent with condition C23; (iii) where construction activities have the potential to impact on waterways or wetlands (through direct disturbance such as construction of waterway crossings or works in close proximity to waterways or wetlands), site specific mitigation measures to be implemented to minimise water quality, riparian and stream hydrology impacts as far as practicable, including measures to stabilise bed and/ or bank structures where feasible and reasonable, and to rehabilitate affected riparian vegetation to existing or better condition. The timing of rehabilitation of the waterways shall be identified in the sub-plan; a contingency plan, consistent with the Acid Sulfate Soils Manual, to deal with the unexpected discovery of actual or potential acid sulfate soils, including procedures for the investigation, handling, treatment and management of such soils and water seepage; (iv) a contingency plan, consistent with the Acid Sulfate Soils Manual, to deal with the unexpected discovery of actual or potential acid sulf soils and water seepage; 			x	x			x	Compliant & Ongoing	The Construction 2018) was approve Works are being u and Water Manage

on Noise and Vibration Management Sub Plan (Revision I, Sept oved by DP&E on 19 Sept 2018.

g undertaken in compliance with the approved Construction Noise anagement Sub-Plan.

on Soil and Water Quality Management Sub Plan (Revision I, Sept oved by DP&E on 14 Sept 2018.

g undertaken in compliance with the approved Construction Soil agement Sub-Plan.

			Pha	se of Pr	oject			Compliance Status	Comments
T D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	DD	BPC	PC	С	PoC	0	D	-	
erosion and sediment control; (vi) construction water quality monitoring requirements consistent with condition C24; and (vii) a groundwater management strategy, including (but not necessarily limited to): i. description and identification of groundwater resources (including depths of the water table and water quality) potentially affected by the project based on groundwater modelling undertaken in accordance with this consent; ii. identification of surrounding licensed bores, dams or other water supplies and groundwater dependant ecosystems and potential groundwater risks associated with the construction of the project on these groundwater users and ecosystems; iii. measures to manage identified impacts on water table, flow regimes and quality and to groundwater users and ecosystems; iv. groundwater inflow control, handling, treatment and disposal methods; and v. a detailed monitoring plan to identify monitoring methods, locations, frequency, duration and analysis requirements; and									
 (e) a Construction Heritage Management Sub-plan to detail how construction impacts on Aboriginal and non-Aboriginal heritage will be avoided, minimised and managed. The sub-plan shall be prepared by an appropriately qualified heritage consultant(s) approved by the Director-General and the OEH (Aboriginal heritage) and be developed in consultation with registered Aboriginal stakeholders, and include, but not necessarily be limited to: (i) details of management measures and strategies for protection, excavation, salvage and archival recording, and/or conservation of heritage items and sites that will be directly or indirectly impacted during construction (including further archaeological investigations, salvage measures and/ or measures to protect unaffected sites during construction works in the vicinity); (ii) procedures for dealing with previously unidentified non-Aboriginal and Aboriginal objects (excluding human remains) including cessation of works in the vicinity, assessment of the significance of the item(s) and determination of appropriate mitigation measures including when works can re-commence by a suitably qualified and experienced archaeologist in consultation with the Department, OEH and registered Aboriginal stakeholders and assessment of the consistency of any new non-Aboriginal and Aboriginal heritage (in accordance with section 89A of the National Parks and Wildlife Act 1974) and the OEH for non-Aboriginal heritage (in accordance with Section 146 of the NSW Heritage Act 1977); (iii) procedures for dealing with human remains, including cessation of works in the vicinity and notification of the Department, NSW Police Force, OEH and registered Aboriginal stakeholders and not recommencing any works in the area unless authorised by the Department and/ or the NSW Police Force); and (iv) induction processes (identification, protection) for construction personnel (including procedures for keeping records of inductions) and procedures for ongoing Aboriginal co			x	x			x	Compliant & Ongoing	The Heritage consu The Construction H approved by DP&E Works are being un Heritage Manageme

onsultant(s) preparing the HMP was approved by DP&E 13 Jul 2018. on Heritage Management Sub Plan (Revision H, Sept 2018) was P&E on 18 Sept 2018.

g undertaken in compliance with the approved Construction ement Sub-Plan.

PAF	RT D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	Phase of Project						Compliance Status	Comments	
		DD	BPC	PC	С	PoC	0	D	1	
Rep D6	 borting The Applicant shall develop and implement a Compliance Tracking Program to track compliance with the requirements of this consent. The Program shall be submitted to the Director-General for approval prior to the commencement of construction and relate to both the construction and operational phases of the project, and include, but not necessarily be limited to: (a) provisions for the notification of the Director-General of the commencement of works prior to the commencement of construction and prior to the commencement of operation of the project (including prior to each stage, where works are being staged); (b) provisions for periodic reporting of compliance status against the requirements of this consent, including the Statement of Commitments, to the Director-General including at least one month prior to the commencement of construction and operation of the project and at other intervals during the construction and operation, as identified in the Program; (c) a program for independent environmental auditing in accordance with ISO 19011:2003 - Guidelines for Quality and/ or Environmental Management Systems Auditing; (d) mechanisms for reporting and recording incidents and actions taken in response to those incidents; (e) provisions for reporting environmental incidents to the Director-General during construction and operation; and 	DD	BPC	x	x	x	x	x	Compliant & Ongoing	The Compliance T Sept 2018. The pro- the commencement Roads and Maritim commencement of This quarterly Cor EMM of the SSI for Independent enviro per year) during co March 2019, appro- Section 2.4 of the addresses incident incident identification
D7	management. The Applicant shall notify the Director-General and other relevant government agencies of any incident with actual or potential significant off-site environmental impacts on people or the biophysical environment as soon as practicable and within 24 hours after the occurrence of the incident. The Applicant shall provide full written details of the incident to the Director-General within seven days of the date on which the incident occurred. Note: Where an incident also requires reporting to the NSW Heritage Council, the OEH and/or EPA the incident report prepared for the purposes of notifying the NSW Heritage Council , the OEH and/or EPA would meet this requirement. The Applicant shall meet the requirements of the Director-General or relevant government agency (as determined by the Director-General) to address the cause or impact of any incident, as it relates to this consent, reported in accordance with this consent, within such period as the Director-General may require.		x	x	x	x		x	Compliant & Ongoing Compliant & Ongoing	Maritime to repor

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Tracking Program (rev C, Sept) was approved by DP&E on 20 program included a compliance check at least one month prior to ment of construction.

ime advised the Secretary and Hawkesbury City Council of the of works, in writing prior, to the commencement of construction. compliance Report is prepared based on a review of the MCoA and for the last 3 months (Sept-Dec 2018).

vironmental audits will be completed on a bi-annual basis (twice construction with the first audit scheduled to be undertaken in proximately six months after the commencement of construction. The Compliance Tracking Program (and Section 7 of the CEMP) ints and emergencies. In this section a process is outlined for ation, management, reporting, close out and review. It addresses stem for notifying Roads and Maritime by Georgiou and Roads and port to the Secretary.

It is outlined Section 2.5 of the approved Compliance Tracking ction 7 of the CEMP.

orting period there were two incidents (Category I) with actual or environmental impacts.

t is outlined in the Compliance Tracking Program and Section 7 of

		-		Phas	se of Pı	roject			Compliance Status	Comments
PAR	T D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	DD	BPC	PC	С	PoC	0	D	-	
Aud	iting		1 2. 0			1.00				
	rational Noise									
D9	Within 12 months of the commencement of operation of the project, or as otherwise agreed by the Director-General, the								Compliant & Ongoing	Operational noise
	Applicant shall undertake operational noise monitoring to compare actual noise performance of the project against noise									commencement o
	performance predicted in the review of noise mitigation measures required by this consent, and prepare an Operational Noise									
	Report to document this monitoring. The Report shall 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 consent and documents specified under condition A2 of this consent;									
	(b) a review of the operational noise levels in terms of criteria and noise goals established in the NSW Road Noise Policy (EPA, 2011);									
	(c) methodology, location and frequency of noise monitoring undertaken, including monitoring sites at which project 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 project 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 actual traffic numbers and									
	proportions;						x			
	(f) an assessment of the performance and effectiveness of applied noise mitigation measures together with a review and, if									
	necessary, reassessment of all feasible and reasonable mitigation measures; and									
	(g) identification of additional feasible and reasonable measures to those identified in the review of noise mitigation measures									
	required by this consent that would be implemented with the objective of meeting the criteria outlined in the NSW Road Noise									
	Policy (EPA, 2011), when these measures would be implemented and how their effectiveness would be measured and reported									
	to the Director-General and the EPA.									
	The Applicant shall provide the Director-General and the EPA with a copy of the Operational Noise Report within 60 days of									
	completing the operational noise monitoring referred to in (a) above or as otherwise agreed by the Director-General.									
Com	Innunity Information and Involvement									
	ision of Electronic Information									
	Prior to the commencement of construction, the Applicant shall establish and maintain a new website, or dedicated pages within								Compliant & Ongoing	Project website h
	an existing website, for the provision of electronic information associated with the project. The Applicant shall, subject to									rms.nsw.gov.au/w
	confidentiality, publish and maintain up-to-date information on the website or dedicated pages including, but not necessarily									Roads and Maritin
	limited to:									project website, a
	(a) information on the current implementation status of the project;									
	(b) a copy of the documents referred to under condition A2 of this consent, and any documentation supporting modifications to									
	this consent that may be granted from time to time;			x	x			x		
	(c) a copy of this consent and any future modification to this consent;									
	(d) a copy of each relevant environmental approval, licence or permit required and obtained in relation to the project;									
	(e) a copy of each current strategy, plan, program or other document required under this consent; and									
	(f) the outcomes of compliance tracking in accordance with the requirements of condition D6.									
1		1	1	1	1	1	1	1		1

e monitoring will be undertaken within 12 months of the of operation.

has been established for the project:

vindsorbridge

ime has and will continue to place all relevant documents onto the as required.

		Phase of Project							Compliance Status	Comments
PAF	RT D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	DD	BPC	PC	с	PoC	0	D		
Con	nplaints and Enquiries Procedure		DIC		Ŭ	100	v			
DII	 Prior to the commencement of construction, the Applicant shall ensure that the following are available for community complaints and enquiries during the construction period: (a) a 24 hour telephone number on which complaints and enquiries about construction and operation activities may be registered; (b) a postal address to which written complaints and enquiries may be sent; and (c) an email address to which electronic complaints and enquiries may be transmitted. The telephone number, the postal address and the email address shall be published in a newspaper circulating in the local area prior to the commencement of project operation. The above details shall also be provided on the website (or dedicated pages) required by this consent. 			x	x			x	Non-Compliant & Ongoing	A telephone numb for the project and Enquiries and Com Community Comn The project teleph the local paper, Ha Hawkesbury Cour newspaper is to be
DI2	The Applicant shall prepare and implement a Construction Complaints Management System consistent with AS 4269 Complaints Handling prior to the commencement of construction activities and must maintain the System for the duration of construction activities. Information on all complaints received, including the means by which they were addressed and whether resolution was reached and whether mediation was required or used, shall be maintained by the Applicant and included in a Complaints Register. The information contained within the System shall be made available to the Director-General on request.			x	x			x	Compliant & Ongoing	Construction Com implemented for th This requirement is Communication St
Con	nmunity Involvement		<u> </u>		<u> </u>					
DI3	The Applicant shall prepare and implement a Community Communication Strategy for the project. This Strategy shall be designed to provide mechanisms to facilitate communication between the Applicant, the Contractor, the Environmental Representative, the relevant council and the local community (broader and local stakeholders) on the construction and environmental management of the project. The Strategy shall include, but not necessarily be limited to: (a) identification of stakeholders to be consulted as part of the Strategy, including affected and adjoining landowners; (b) procedures and mechanisms for the regular distribution of information to stakeholders on the progress of the project and matters associated with environmental management; (c) procedures and mechanisms through which stakeholders can discuss or provide feedback to the Applicant and/ or Environmental Representative in relation to the environmental management and delivery of the project; (d) procedures and mechanisms through which the Applicant can respond to enquires or feedback from stakeholders in relation to the environmental management and delivery of the project. This may arise between parties on the matters relating to environmental mediator. (f) consultation to be undertaken for the bridge naming process. Key issues that should be addressed in the Community Communication Strategy should include (but not necessarily be limited to): (i) traffic management (including property access, pedestrian access); (ii) haritage matters; (iv) construction activities; and (v) noise and vibration mitigation and management. The Applicant shall maintain and implement the Strategy throughout construction of the project. The Strategy shall be approved by the Director General prior to the commencement of construction.			x	x			x	Compliant & Ongoing	The Community C DP&E on 14 Sept 2 Regular community period (Sept 18, No Project notification activity that signific local community or

nber, the postal address and the email address have been provided nd are available on the project website.

- omplaints Management is outlined in Section 5.2 of the approved nmunication Strategy required under condition D13.
- phone number, postal address and email address was published in Hawkesbury Gazette on 26th September 2018, and in the
- urier on the 27th September 2018. The delay in notifying via be issued to DPE as a non-compliance.

omplaints Management System has been prepared and [.] the project.

t is outlined in Section 5.2 and Appendix D of the Community Strategy required under condition D13.

Communication Strategy (version 5, Sept 2018) was approved by pt 2018.

- nity updates were prepared and distributed during this reporting Nov 18, Dec 18/Jan19).
- ions were prepared and distributed in advance of each event or ificantly impacted, or had the potential to significantly impact, the or businesses (e.g. night time works).

				Phas	se of Pi	oject			Compliance Status	Comments
PAR	T D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	DD	BPC	PC	с	PoC	0	D	-	
Envir	onmental Representative						-			1
DI4	Prior to the commencement of construction, or as otherwise agreed by the Director- General, the Applicant shall nominate for the approval of the Director-General a suitably qualified and experienced Environment Representative(s) that is independent of the design and construction personnel. The Applicant shall employ the Environmental Representative(s) for the duration of construction, or as otherwise agreed by the Director-General. The Environment Representative(s) shall: (a) be the principal point of advice in relation to the environmental performance of the SSI; (b) monitor the implementation of environmental management plans and monitoring programs required under this consent and advise the Applicant upon the achievement of these plans/ programs; (c) have responsibility for considering and advising the Applicant on matters specified in the conditions of this consent, and other licences and approvals related to the environmental performance and impacts of the SSI; (d) ensure that environmental auditing is undertaken in accordance with the Applicant's Environmental Management System(s); (e) be given the authority to approve/ reject minor amendments to the CEMP. What constitutes a "minor" amendment shall be clearly explained in the CEMP required under this consent; (f) be given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts, and failing the effectiveness of such steps, to direct that relevant actions be ceased immediately should an adverse impact on the environment be likely to occur; and (g) be consulted in responding to the community concerning the environmental performance of the SSI where the resolution of points of conflict between the Applicant and the community is required.		x	x	x	x		x	Compliant & Ongoing	The Project Environ Environmental Mana Alternate ER's, Cam (Hutchinson Weller respectively. The ER has underta construction and ha for the month.
	ational Management System Prior to the commencement of operation, the Applicant shall incorporate the project into its existing environmental management		<u> </u>	<u> </u>			<u> </u>		Compliant & Ongoing	This condition will I
510	systems.					x			Compliant & Ongoing	

ironmental Representative (ER), Toby Hobbs (Vantage 1anagement Pty Ltd) was approved by DP&E on 6 April 2016. Cameron Weller (Hutchinson Weller) and Peter Morrall eller) were approved by DP&E on 26 June 18 and 6 July 2018,

ertaken regualar site inspections since the commencement of I has prepared monthly reports outlining the relevant information

vill be complied with prior to the commencement of operation.

Appendix B Revised Environmental Management Measures

Legend	
DD	Detailed Design
BPC	Before Pre-construction
PC	Pre-construction
С	Construction
PoC	Post-construction
OP	Operation
D	Demolition

I		I								
Enviror	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		F	hase	of Pro	oject			Compliance Status	
Measur	e	DD	BPC	PC	С	PoC	0	D	-	
	RIC HERITAGE	1	I	1	1	1	1			
нні	During detailed design additional investigations will be undertaken that seek to further reduce the size and visual impact of the roundabout at Freemans Reach Road and Wilberforce Road.	x							Compliant	The northern roundabou Guide to Road Design (A
HH2	Opportunities to relocate above-ground utilities underground will be investigated during detailed design.	x							Compliant	Opportunities to relocat design process.
НН3	Measures will be undertaken to ensure that the landscape scheme for the Thompson Square parkland area retains its informal character.			×		×			Compliant & Ongoing	The landscape scheme fo Conservation Manageme Design and Landscape Pla
HH4	Prior to construction dilapidation reports will be prepared as identified in Section 7.5.6 (generally receivers within 50 metres of piling, rock breaking and vibratory compaction activities). These will be undertaken in consultation with the relevant property owners.			x					Compliant & Ongoing	Pre-construction dilapida submitted to the DP&E f
нн5	Prior to commencing work on the project construction site all construction personnel will undergo a heritage induction which would contain information on heritage values and items in the area and on environmental management measures to minimise potential heritage impacts.		x	x					Compliant & Ongoing	Details of heritage trainin Management Sub-Plan: • Section 8.2 (Training) • Appendix A – Heritage Heritage training and ind
HH6	All heritage items within the study area will be clearly identified on construction plans to minimise the risk of inadvertent impacts.		x	×	x				Compliant & Ongoing	Heritage items are identi the CEMP.
HH7	Environmental management measures identified in Section 7.5.5 of the EIS will be implemented to minimise vibration risks and impacts on heritage items.		x	x	x				Compliant	Refer to condition NVI a
HH8	Heritage items at risk of vibration impacts will be inspected and monitored periodically during construction to identify any construction-related impacts. If impacts are detected, work in the area will cease and appropriate environmental management measures will be implemented such as using alternative low vibration construction techniques.		x		x				Compliant & Ongoing	Detailed in the Construc
нн9	Architectural noise environmental management measures for heritage listed buildings will be developed in agreement with property owners and installed by suitably qualified professionals.			x					Compliant	Architectural treatments properties, as outlined in offer.
ннто	An integrated archaeological project and research design will be developed in conjunction with heritage agency stakeholders. The research design will seek to investigate the project footprint and realise its archaeological potential. The archaeological project and research design will set out in detail the archaeological program, the research objectives and questions, and methods of analysis and dissemination of the results.		x						Compliant	The Aboriginal Archaeol July 2016) was approved The Historical and Marit approved by DP&E on 20 The above research desig heritage agency stakehol

pout has been designed in accordance with the Austroads (AGRD).

cate utilities underground were considered during the detailed

e for Thompson Square was considered in the Strategic ment Plan (SCMP) required under condition B1 and the Urban Plan prepared for the project under condition B7.

pidation reports have been prepared for the project and & for approval where owner consent was obtained.

ining and induction are outlined in the Construction Heritage

g)

age Education and Training Package.

induction has been undertaken for all new project personnel.

ntified on the Sensitive Area Plans included in Appendix A4 of

I and NV2 below.

ruction Noise and Vibration Management Sub-Plan.

nts for noise mitigation have been installed at residential d in the EIS and Submissions Report. One resident declined the

eological Research Design and Excavation Methodology (v 3, 5 ed by DP&E on 13 July 2016 under condition B3.

ritime Archaeological Research Design (4 October 16) was 20 June 16 under condition B3.

esign methodologies were prepared in consultation with nolders.

Environ	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		I	Phase	of Pro	oject			Compliance Status	
Measur	e	DD	BPC	РС	с	PoC	0	D	-	
HHII	The 1874 bridge will be dismantled in a manner that allows its construction methods and evolution to be appropriately documented as an archival record prior to, and during its demolition.							×	Compliant & Ongoing	Archival recording of th Recording report (Rev & The approved Construct requirements for the re recording and interpreta Secretary prior to comm
HH12	Further consultation with utility providers will be undertaken to confirm the feasibility of reducing the number of trenches required for the installation of utilities.			×					Compliant & Ongoing	Consultation with utility relocated to the existing heritage.
HH13	Prior to commencing works and during works, an archival record of the project footprint and the immediate vicinity will be undertaken in accordance with Heritage Council guidelines for items of State significance.		x	x					Compliant & Ongoing	The Detailed Photograp approved by DP&E on I undertaken in accordand The approved Construc requirements for the re recording and interpreta Secretary prior to comm
HH14	The Heritage Branch (on behalf of the Heritage Council), the Hawkesbury Museum and Hawkesbury City Council will be consulted on the level of appropriate archival recording. At a minimum archival recording will be undertaken in accordance with the Heritage Council guidelines for recording items of State significance prior to any further works.		x	x					Compliant & Ongoing	The Detailed Photograp undertaken in accordance The interpretation and p consultation with the He be outlined in Stage 2 of
HH15	Archival recording prior to, during demolition and construction of the project and after completion of the project will be undertaken.		x	x	×				Compliant & Ongoing	The Detailed Photograp February 2018. Further archival recordi
HH16	A social record of Thompson Square and the building of the replacement bridge will be prepared to capture community views on the change to the environment.		x						Compliant & Ongoing	Strategic Conservation I Urban Design and Lands
HH17	Consultation with Hawkesbury City Council, relevant heritage agencies and the community on the urban design and landscape concept for Thompson Square will be undertaken during the detailed design phase of the project. The urban design landscaping principles and objectives will be used to further develop the detailed design of the project.			×					Compliant	Consultation with Hawk community was underta Detailed Design Report outcomes of consultatio Submissions Report (Sep

the bridge was included in the Detailed Photographic Archival ev 6, 12 February 2018) required under condition B2. ruction Heritage Management Sub-Plan will be updated with the removal of Windsor Bridge, including possible salvage, archival retation. The Sub-Plan will be submitted and approved by the ommending removal of the bridge.

ility providers has been undertaken. Some utilities have been ting road cutting to avoid excavation in areas with potential

raphic Archival Recording (DAR) has been undertaken and was n 16 February 2018, under condition B2. The DAR was lance with the Heritage Council guidelines.

ruction Heritage Management Sub-Plan will be updated with the removal of Windsor Bridge, including possible salvage, archival retation. The Sub-Plan will be submitted and approved by the mmending removal of the bridge.

raphic Archival Recording (DAR) under condition B2 was lance with the Heritage Council guidelines.

nd preservation of heritage items will be undertaken in Heritage Branch, Hawkesbury Museum and Council. This will 2 of the Interpretaiton Plan requried under condition B1.

raphic Archival Recording was approved by on DP&E on 16

rding of the bridge will be undertaken prior to demolition.

on Management Plan (SCMP) required under condition BI. ndscape Plan prepared for the project under condition B7.

awkesbury City Council, relevant heritage agencies and the ertaken during preparation of the Urban Design and Landscape ort (September 2017), required under condition B7. The ation are contained in the Urban Design and Landscape Plan (September 2017).

Environ	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		F	hase	of Pro	oject			Compliance Status	
Measure		DD	BPC	РС	С	PoC	0	D	-	
HH18	The concept of an informal landscape will be the basis of the final landscape plan for Thompson Square.			x					Compliant & Ongoing	The final landscape plan Design Report (Septemb
HH19	Post-construction landscaping will be prioritised where it would provide residences and businesses with a visual buffer to the completed project.			x					Compliant & Ongoing	Urban Design and Lands under condition B7. The Vegetation Manager
HH20	An interpretation strategy within the archaeological project plan and research design, will be developed to identify opportunities for public understanding and engagement with the archaeological investigation process. This will assess and recommend strategies.			x					Compliant & Ongoing	The Interpretation Strate on 28 March 2017. The Interpretation Plan consultation with relevan
HH21	An interpretation plan will be prepared based upon all of the heritage assessments to provide a framework for making information about the site's significance publicly accessible. The interpretive plan will be informed by the landscape masterplan that is proposed for Thompson Square.			x					Compliant & Ongoing	The Interpretation Plan condition BI. The Interpretation Plan
HH22	Where possible, excess materials such as the iron piers on the existing Windsor bridge, would be re-used within the project. If re-use is not possible within the project, re-use opportunities offsite would be investigated. All components would be properly labelled with provenance.				x				Compliant & Ongoing	This will be considered a Plan.
MARITI	ME ARCHAEOLOGY									
MHI	An above and below water maritime archaeological salvage excavation will be undertaken within the area considered to have a high potential to contain archaeological remains associated with the c.1814 wharf where impacts from the project are anticipated. This includes the area immediately behind the southern bank of the river within footprint of the project. The salvage excavation will be conducted by a qualified maritime archaeologist in accordance with an appropriate research design. The research design would include, as a minimum, an excavation methodology, research questions and provisions for artefact analysis.		x						Compliant & Ongoing	Maritime archaeological undertaken in accordanc o Historical and Maritin June 16. o Maritime Archaeological Maritime Archaeological
MH2	An archaeological excavation report will be prepared at the conclusion of the salvage excavation, and submitted to the Office of Environment and Heritage for their records.		x						Compliant & Ongoing	A salvage report is curre excavations, as required
МНЗ	The results of the excavation and artefact analysis will be used in on-site interpretation of the maritime history and heritage of the Windsor area.		×						Compliant & Ongoing	Results of the maritime of history which will be our staged approval of condi preparation.
MH4	Archaeological monitoring by a qualified archaeologist will be undertaken in conjunction with earthworks and landscaping on the northern side of the existing bridge in the general location of the c.1835 punt landing. Any archaeological remains or relics associated with the punt crossing will be recorded and/or salvaged.		x						Compliant & Ongoing	The general location of t the limit of construction Salvage Strategy the area was to extend into this a

an is outlined in the Urban Design and Landscape Detailed ember 2017), required under condition B7.

ndscape Detailed Design Report (September 2017), required

gement Plan (Rev 0, June 18) required under condition C35.

rategy was prepared and submitted to DP&E for information

an (Stage 2) is currently in preparation and will be developed in evant stakeholders.

an (Stage 1) was apprvoed by DP&E as required under

an (Stage 2) is currently in preparation.

ed as required by the Construction Waste Management Sub-

cal excavations have been undertaken. These works were lance with:

itime Archaeological Research Design approved by DP&E 20

ogical Testing Report and Detailed Salvage Strategy for cal Excavation approved by DP&E 23 March 2018.

rrently being prepared following completion of the salvage red under condition C5.

ne excavation will be used in on-site interpretation of maritime outlined in the Interpretation Plan (Stage 2) required under the ndition B1. The Interpretation Plan (Stage 2) is currently in

of the punt landing on the northern side of the river is outside ion works (including scour protection). Under the Detailed area is subject to the unexpected find procedure if construction his area.

Environ	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report	Phase of Project							Compliance Status	
Measure		DD	BPC	PC	С	PoC	ο	D		
MH5	An archaeological monitoring report will be prepared at the end of monitoring works, and submitted to the Office of Environment and Heritage for their records.			x	x	x		Compliant	Compliant	 The results of the maritidocuments: Test Excavation Repo2017. Maritime Archaeological Maritime Archaeological These documents have the A salvage report is curree excavations, as required
ABORIO	GINAL HERITAGE							1		
AHI	A salvage excavation plan will be developed in consultation with NSW Office of Environment and Heritage which would include the following considerations: • In the upper portion of W-SP 45-5-3581, at the corner of George and Bridge Streets, the entire extent of the archaeologically significant deposit will be salvaged via open excavation. The area of excavation would be about 100 square metres or as otherwise agreed with OEH during detailed design. • In the lower portion of W-SP 45-5-3581, in the area between Bridge Street, Old Bridge Street and the wharf carpark, a representative sample of archaeological material will be taken to further investigate the relationship between the identified stone artefacts and shell lenses. The area of excavation would be about 25-50 square metres or as otherwise agreed with OEH during detailed design. • Field and analysis methods for the salvage excavations will be consistent with the Department of Planning and Infrastructure approved methodology set out in Volume 2 - working paper 3 and Department of Planning and Infrastructure will be consulted during the salvage process. • A suitably qualified and experienced archaeologist will be appointed to oversee the salvage activities.		x	x	×				Compliant	The Detailed Salvage Str prepared under Condition by DP&E on I Decembe qualified and experienced
AH2	 Aboriginal objects recovered during salvage activities would be transferred to the Australian Museum in accordance with legislative requirements, Australian Museum Archaeological Collection Deposition Policy v1.0 January 2012. In the event the Australian Museum is unable to accept the objects, the objects will be transferred in accordance with a Care Agreement or similar agreement to an Aboriginal community. In the event that neither the Australian Museum nor the Aboriginal community are able to accept the archaeological objects, the suitably qualified and experienced archaeologist appointed to oversee the salvage activities would seek a Care Agreement or similar agreement to curate the objects. 		x						Compliant & Ongoing	The future curation of th discussions indicate a pro repository for future car curation of the cultural r the completion of the po
AH3	A written archaeological excavation report will be provided to RMS within a reasonable time following the completion of the archaeological program.		×	x					Compliant & Ongoing	An Archaeological Salvag following completion of

ritime archaeological monitoring are outlined in the following

port – Historical Archaeology approved by DP&E I December

ogical Testing Report and Detailed Salvage Strategy for cal Excavation approved by DP&E 23 March 2018.

e been submitted to OEH.

rrently being prepared following completion of the salvage ed under condition C5. This report will be submitted to OEH.

Strategy for Aboriginal and Historical Archaeological Heritage lition B3 was prepared in consultation with OEH and approved ber 2017. This strategy was prepared and overseen by suitably ced archaeolgists.

of the cultural materials is yet to be determined. Initial preference to submit the cultural material to a museum or care, with the Windsor Museum mentioned. However, final ral material will be determined in consultation with the RAPs at e post-excavation analysis and reporting.

vage Excavation report (Aboriginal Heritage) will be prepared of the salvage excavations, as required under condition C5.

Enviror	invironmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		I	Phase	of Pro	oject			Compliance Status	
Measur	e	DD	BPC	PC	С	PoC	ο	D	1	
AH4	In the areas where archaeological salvage is proposed, no construction or demolition activities (including preliminary and preparatory activities such as fencing, investigative drilling, minor clearing, establishing site compounds and adjustment of services and utilities) will occur until the salvage activities have been completed in that area.		x						Compliant & Ongoing	The proposed Aborigina completed. As such, the associated with Aborigin works are considered re are to occur outside of t of the DSS.
AH5	Prior to the commencement of preliminary and preparatory construction or demolition activities, a construction heritage site map identifying the known Aboriginal heritage sites and the areas to undergo salvage excavation will be prepared.		x	×					Compliant & Ongoing	The Detailed Salvage Str known Aboriginal heritag Sensitive Area Plans ider A4 of the CEMP.
AH6	Registered Aboriginal stakeholders will be provided with the opportunity to assist with the salvage excavation.		x						Compliant & Ongoing	Registered Aboriginal sta Area I.
AH7	Incident reporting procedures for the project will cover incidents involving Aboriginal heritage.		x	x	x			×	Compliant & Ongoing	An Incident Reporting Pr project and covers incide There have been no inci
AH8	Project environmental management plans will identify procedures for handling human remains, including an immediate stop to work in the vicinity of the find, and reporting to appropriate authorities.		x	×	x			x	Compliant & Ongoing	The approved Construct to follow in the event of (RMS Standard Managem
TRAFF	IC AND TRANSPORT		<u> </u>	1		I	<u> </u>			
ΤI	 A Construction Traffic Management Plan will be prepared and implemented which would enable the safe management of traffic and minimise impacts on the local community. The plan will be structure to address the following issues: Identification of public roads to be utilised by construction traffic. Management measures so that construction traffic utilise the identified roads. Identification of any public roads that may be partially or completely closed during the construction phase and the relevant expected timings and duration of closures. Identification of sources of major construction materials and routes for their delivery to site. Temporary access and traffic arrangements to be implemented during construction. Access arrangements to construction sites and compounds and measures to prevent construction traffic from obstructing traffic flow inadvertently. Parking for construction workers. A response plan for any construction traffic incident. Monitoring, review and amendment mechanisms. 		x	x	x				Compliant & Ongoing	A Construction Traffic N 2018.
Т2	Traffic Control Plans will be developed and implemented for specific areas and/or phases of construction. These will be prepared in accordance with relevant guidelines and by appropriately qualified personnel.		x	x	x				Compliant & Ongoing	The requirements for Tr approved Construction Works have been under Management Sub-Plan.
ТЗ	Traffic control schemes will be inspected regularly and modified if required.		x	x	x				Compliant & Ongoing	This mitigation measure Construction Traffic Mar Works have been under Management Sub-Plan.

ginal cultural heritage salvage program has now been the site is considered to have been cleared of constraints iginal cultural heritage and no additional Aboriginal salvage d required during construction unless further excavation works of the construction buffer zone which is detailed in Figure 16

Strategy (DSS) prepared under Condition B3 outlines the ritage sites and the area to undergo salvage excavation. dentifying Aboriginal Heritage sites are included in Appendix

stakeholders assisted in the Aboriginal salvage operations in

g Procedure (CEMP Appendix A6) has been developed for the cidents involving Aboriginal and non-Aboriginal heritage. ncidents involving Aboriginal Heritage this reporting period.

ruction Heritage Management Sub-Plan outlines the procedure t of discovery of human remains during construction works gement Procedure – Unexpected Archaeological Finds).

c Management Sub-Plan was approved by DP&E on 14 Sept

r Traffic Control Plans (TCP) are outlined in Section 7 of the on Traffic Management Sub-Plan.

dertaken in compliance with the approved Construction Traffic

rre is addressed in Sections 9.3 and 10.1 of the approved Management Sub-Plan.

dertaken in compliance with the approved Construction Traffic

Environ	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		I	hase	of Pro	oject			Compliance Status	
Measur	e	DD	BPC	PC	С	PoC	0	D	-	
Τ4	Drivers and construction workers will be inducted in the requirements of the traffic management plan.		x	x	x				Compliant & Ongoing	This mitigation measure Traffic Management Sub- Works have been under Management Sub-Plan.
Τ5	Deliveries and other major construction traffic movements will be timed to occur outside peak traffic periods, where possible.		x	x	x				Compliant & Ongoing	This mitigation measure Traffic Management Sub- Works have been under Management Sub-Plan.
Т6	Queuing on public roads will be avoided by the use of two-way radios to call up haulage trucks from layover areas on a 'just in time' basis.				x				Compliant & Ongoing	This mitigation measure Traffic Management Sub- Works have been under Management Sub-Plan.
Т7	Dilapidation surveys of roads around the project site will be undertaken prior to their use for construction as well as after construction is complete. Any damage to roads will be repaired.			x	x	x			Compliant & Ongoing	Pre-construction road d approval.
Т8	Consultation will be undertaken with the emergency services, bus operators, local business and other major stakeholders to inform them on changes in traffic management during construction.			x	×				Compliant & Ongoing	This mitigation measure Traffic Management Sub- Works have been under Management Sub-Plan.
Т9	Construction related parking in local areas will be in accordance with the relevant parking restrictions. Opportunities to limit the impact this may have on the community will be investigated in consultation with the Hawkesbury City Council.				x				Compliant & Ongoing	This mitigation measure Traffic Management Sub Works have been under Management Sub-Plan.
Τ10	Environmental management measures may include introducing a temporary navigational speed limit (4 knots or below) within the construction zone and/or introducing a temporary no wash zone. Exclusion zones around marine construction sites will be required, however at all stages passage up and downstream would be provided to watercraft. Other RMS maritime requirements will be complied with.		x	×	×				Compliant & Ongoing	This mitigation measure Traffic Management Sub Works have been under Management Sub-Plan.
тн	Consultation with Maritime operations will be undertaken so that impacts are minimised.		x	×	x			x	Compliant & Ongoing	Consultation with maritith throughout construction
Τ12	Operational traffic levels and delays will be monitored. When delays due to traffic growth become unacceptable reconfiguration of the lanes on the bridge and approach roads from the initial two lane configuration to two southbound and one northbound lane will be undertaken.						×		Compliant & Ongoing	Traffic levels and delays
VISUAI	IMPACT, URBAN DESIGN, AND LANDSCAPING	<u>I</u>	1	1	1	1	_	1		
VI	• Refinement of the bridge, its abutments and constituent parts and details to ensure a high quality outcome in response to its prominence within the Hawkesbury River's landscape setting and the township of Windsor. • Lighting design would be refined to integrate with the design and character of the bridge, approach roads and public domain, with consideration of minimising potential impacts associated with light spill and glare.			×					Compliant & Ongoing	The Urban Design and L for information on 13 O The Interpretation Plan interpretation requireme bridge abutment.

ure is addressed in Section 1.4 of the approved Construction Sub-Plan.

lertaken in compliance with the approved Construction Traffic

re is addressed in Section 5.1.2 of the approved Construction ub-Plan.

lertaken in compliance with the approved Construction Traffic

re is addressed in Section 5.1.6 of the approved Construction ub-Plan.

lertaken in compliance with the approved Construction Traffic

dilapidation reports have been submitted to the DP&E for

re is addressed in Section 9.2 of the approved Construction ub-Plan.

lertaken in compliance with the approved Construction Traffic

re is addressed in Section 5.6 of the approved Construction ub-Plan.

lertaken in compliance with the approved Construction Traffic

re is addressed in Section 5.8 of the approved Construction ub-Plan.

lertaken in compliance with the approved Construction Traffic

ritime operations has commenced and will continue ion.

ys will be monitored during operation.

I Landscape Detailed Design Report was submitted to DP&E October 2017.

an (Stage 2) is currently in preparation and will outline ements for the project including interpretation on the new

Enviror	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		l	Phase	of Pro	oject			Compliance Status	
Measur	e	DD	BPC	PC	С	PoC	ο	D		
V2	 Further consultation would be undertaken with Hawkesbury City Council and other relevant stakeholders to develop an urban design, landscape and open space use plan for Thompson Square and adjacent areas on the southern foreshore. The concept design of Thompson Square presented in this proposal would form the basis for ongoing consultation. Retention and protection of as many trees as possible will be undertaken but in particular the most significant existing trees would be incorporated into the design wherever possible. Review the potential benefits of locating the shared path on the eastern side of the proposed bridge to increase the area of green space in Thompson Square. New tree planting would be consistent and complement the existing species that are to be retained. Planting locations would facilitate direct views to the river and screen the replacement bridge where possible. Any new lighting would strike a balance between illumination for safety and the context of the parkland and its adjoining areas. 			x					Compliant & Ongoing	The Urban Design and I for information on 13 C The Urban Design and I for information on 13 C The Urban Design and I Hawkesbury City Coun
V3	 Further consultation would be undertaken with Hawkesbury City Council to develop an urban design, landscape plan for the southern foreshore and adjacent areas. Further design refinement of The Terrace and foreshore area to achieve high quality public access and amenity along the river's edge and to the river, including the appropriate provision of lighting where required. Detailed design of the form, materials and finishes of the foreshore retaining wall would be undertaken to maximise the integration of the wall into the river setting. Consideration would be given to the design of The Terrace roadway including materials and form and to integrate it into the surrounding parkland. New tree, shrub and groundcover planting would be incorporated in the foreshore areas to enhance the parkland setting and views to the river. 			×					Compliant & Ongoing	The Urban Design and I for information on 13 C The Urban Design and I for information on 13 C The Urban Design and I Hawkesbury City Coun
V4	 Further consultation would be undertaken with Hawkesbury City Council to develop an urban design, landscape plan for the northern foreshore and adjacent areas. Further design refinement would be undertaken to improve the integration of the northern intersection responding to its location and role as the northern arrival point to Windsor and Macquarie Park Safe pedestrian and cycle connections throughout the project and links with existing path network within Macquarie Park would be further examined. Appropriate provision for lighting would be considered and lighting infrastructure utilised only where required. 			x					Compliant & Ongoing	The Urban Design and I for information on 13 C The Urban Design and I for information on 13 C The Urban Design and I Hawkesbury City Coun
∨5	Further consultation would be undertaken with Hawkesbury City Council to develop a pedestrian and cycle access plan for the project and the surrounding area, in order to integrate the pedestrian and cycle connections into the surrounding network.	x							Compliant & Ongoing	Council was included in and Landscape Plan for
V6	Construction facilities will be contained within the construction works zone boundary and occupy the minimum area practicable.				x				Compliant & Ongoing	Construction facilities a and occupy the minimum
V7	During construction, suitable barriers will be provided to screen views from adjacent areas.				x				Compliant & Ongoing	Construction hoarding l

Comment	

nd Landscape Detailed Design Report was submitted to DP&E 3 October 2017.

nd Landscape Plan Submissions Report was submitted to DP&E 3 October 2017.

nd Landscape Plan was developed in consultation with uncil.

nd Landscape Detailed Design Report was submitted to DP&E 3 October 2017.

nd Landscape Plan Submissions Report was submitted to DP&E 3 October 2017.

nd Landscape Plan was developed in consultation with uncil.

nd Landscape Detailed Design Report was submitted to DP&E 3 October 2017.

nd Landscape Plan Submissions Report was submitted to DP&E 3 October 2017.

d Landscape Plan was developed in consultation with uncil.

I in the consultation during preparation of the Urban Design or the project.

s are contained within the construction works zone boundary num area practicable.

ng has been provided where required.

Enviro	nmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		I	Phase	of Pro	oject			Compliance Status	
Measur	re	DD	BPC	PC	с	PoC	0	D	1	
V8	Temporary construction facilities and compound areas will be returned to their pre-construction state or better, either at the completion of the construction phase or progressively throughout the construction period where possible and practicable.		x	x	×				Compliant & Ongoing	This requirement is add Assessment. Decommissioning (inclue new site compounds pri
∨9	Pollution and dust will be kept to a minimum through the application of pollution management measures and monitoring.		x	x	x				Compliant & Ongoing	Pollution and dust mitiga Air Quality Management A range of measures hav covered trucks, spraying
V10	Footpaths that will be affected by construction activities would be temporarily diverted to maintain suitable alternative access routes for pedestrians.		×	x	x				Compliant & Ongoing	Footpaths will be tempo outlined in Section 5.4 o
VH	Existing trees within construction area and compounds that do not need to be removed will be identified, protected and maintained throughout the construction period.				x				Compliant & Ongoing	This requirement is addı Management Plan.
V12	Temporary lighting will be screened or diverted to reduce unnecessary light spill.		x	×	x				Compliant & Ongoing	Security lighting has been away from residential pr outlined in Section 5.8 o Any lighting required for Protocol' in Appendix B
VI3	Material used for temporary land reclamation will be removed once the works are complete.				x				Compliant & Ongoing	There will be no tempor
NOISE	AND VIBRATION		1		<u> </u>	1		<u>.</u>		
NVI	A Construction Noise and Vibration Management Plan (CNVMP) will be prepared and will include general controls such as:								Compliant & Ongoing	The Construction Noise DP&E on 19 Sept 2018.
	Further detailed noise impact assessments will be undertaken of all construction works and works outside standard construction hours once detailed construction planning is complete as the location and type of construction works may change. These detailed noise impact assessments will be used to identify affected sensitive receivers and develop detailed mitigation measures.		x	x	x				Compliant & Ongoing	Section 7 of the approve
	The nearest noise sensitive receivers will be notified of future works and expected levels of noise well in advance of the works occurring.		x	x	x				Compliant & Ongoing	Mitigation measure NV7 Management Sub-Plan. Works have been under and Vibration Manageme
	Construction programming will be developed to minimise noise impacts - this may include time and duration restrictions and respite periods, and will be developed after consultation with affected receivers.		x	×	x				Compliant & Ongoing	Mitigation measure NV8 Management Sub-Plan. Works have been under and Vibration Manageme
	Where possible, works outside of standard construction hours will be planned so that noisier works are carried out in the earlier part of the evening or night time.		x	×	×				Compliant & Ongoing	Construction Noise and • Mitigation measure N • Out of Hours work p Works have been under and Vibration Manageme

ddressed in Section 4.5 of the approved Ancillary Facility

luding any necessary rehabilitation) will be considered for any prior to approval of the compound.

tigation measures are provided in the approved Construction ent Plan.

have been implemented to minimise dust including water carts, ving polymer or covering soil stockpiles.

porarily diverted if affected by construction activities, as 4 of the approved Construction Traffic Management Plan.

ddressed in the approved Construction Flora and Fauna

been installed at the main ancillary facility. Lighting is directed I properties to ensure any light spill impact is minimised, as 8 of the approved Ancillary Facility Assessment.

for night works is considered in the 'Out of Hours Work & B of the Construction Noise and Vibration Management Plan.

porary land reclamation during the project.

pise and Vibration Management Sub-Plan was approved by 18.

oved Construction Noise and Vibration Management Sub-Plan.

IV7 of the approved Construction Noise and Vibration

dertaken in accordance of the approved Construction Noise ement Sub-Plan.

IV8 of the approved Construction Noise and Vibration

dertaken in accordance of the approved Construction Noise ement Sub-Plan.

and Vibration Management Sub-Plan: NV10

k protocol (Appendix B).

dertaken in accordance of the approved Construction Noise ement Sub-Plan.

mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report	Phase of Project						Compliance Status		
re	DD	BPC	РС	с	PoC	0	D	1	
Where noisy works are required outside of standard construction hours, negotiated agreements will be sought with affected sensitive receivers.		x	x	x				Compliant & Ongoing	Construction Noise and • Mitigation measure N • Out of Hours work Works have been under and Vibration Managem
Where possible, the use of noisy plant simultaneously and/or close together will be avoided.		x	x	x				Compliant & Ongoing	Mitigation measure NV Management Sub-Plan. Works have been unde and Vibration Managem
Equipment and excavation work sites will be orientated away from sensitive receivers where possible to reduce noise emissions.		x	x	x				Compliant & Ongoing	Mitigation measure NV Management Sub-Plan. Works have been unde and Vibration Managem
Equipment will be maintained in efficient working order.		x	x	x				Compliant & Ongoing	Mitigation measure NV Management Sub-Plan. Works have been unde and Vibration Managem
Quieter construction methods will be used where feasible and reasonable. This may include grinding, rock splitting or terrain levelling instead of rock breaking where it is feasible and reasonable.		x	x	x				Compliant & Ongoing	Mitigation measure NV Management Sub-Plan. Works have been unde and Vibration Managen
Where acceptable from a work health and safety perspective, quieter alternatives to reversing alarms (such as spotters, closed circuit television monitors and 'smart' reversing alarms) will be used particularly during out of hours activities.		x	x	x				Compliant & Ongoing	Mitigation measure NV Management Sub-Plan. Works have been unde and Vibration Managem
All noise complaints will be investigated and appropriate mitigation measures implemented where practicable to minimise further impacts.		x	x	x				Compliant & Ongoing	Mitigation measure NV Management Sub-Plan. Works have been unde and Vibration Managem
Noise monitoring will be undertaken to assess compliance with NMLs and assess the effectiveness of noise mitigation. The use of temporary noise shielding will be considered at locations along Bridge Street where substantial exceedances of noise criteria are predicted. In addition where work is undertaken in close proximity to Thompson Square or along Freemans Reach Road, temporary noise barriers will be considered.		x	x	x				Compliant & Ongoing	Mitigation measure NV Management Sub-Plan. Works have been unde and Vibration Managem
Buildings/structural conditions surveys will be undertaken prior to and following construction works at receivers within 50 metres of piling, rock breaking and vibratory compaction activities, including the heritage retaining wall at 4 Bridge Street.			x	x				Compliant & Ongoing	Pre-construction dilapio submitted to the DP&E Mitigation measure NV Management Sub-Plan.
No impact piling works will be undertaken within 20 metres of any heritage structure, unless additional assessment and monitoring confirm that vibration levels will be below project specific criteria.			x	x				Compliant & Ongoing	Mitigation measure NV Management Sub-Plan. Works have been unde and Vibration Managem

- and Vibration Management Sub-Plan: NV10
- rk protocol (Appendix B).
- dertaken in accordance of the approved Construction Noise ement Sub-Plan.
- IV17 of the approved Construction Noise and Vibration
- dertaken in accordance of the approved Construction Noise ement Sub-Plan.
- IV18 of the approved Construction Noise and Vibration
- dertaken in accordance of the approved Construction Noise ement Sub-Plan.
- IV19 of the approved Construction Noise and Vibration
- dertaken in accordance of the approved Construction Noise ement Sub-Plan.
- IV20 of the approved Construction Noise and Vibration
- dertaken in accordance of the approved Construction Noise ement Sub-Plan.
- IV21 of the approved Construction Noise and Vibration
- dertaken in accordance of the approved Construction Noise ement Sub-Plan.
- IV22 of the approved Construction Noise and Vibration
- dertaken in accordance of the approved Construction Noise ement Sub-Plan.
- IV23 of the approved Construction Noise and Vibration
- dertaken in accordance of the approved Construction Noise ement Sub-Plan.
- pidation reports have been prepared for the project and &E for approval where owner consent was obtained. JV24 of the approved Construction Noise and Vibration
- IV25 of the approved Construction Noise and Vibration
- dertaken in accordance of the approved Construction Noise ement Sub-Plan.

Enviro	nmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report	-	F	Phase	of Pro	oject			Compliance Status	
Measur	re	DD	BPC	PC	С	PoC	ο	D	-	
	Rock breaking/hammering will not be undertaken within seven metres of any heritage item or building unless additional assessment and monitoring confirm that vibration levels will be below project specific criteria.			x	x				Compliant & Ongoing	Mitigation measure NV2 Management Sub-Plan. Works have been under and Vibration Manageme
	Rock breaking/hammering will not be undertaken within five metres of any non heritage building unless additional assessment and monitoring confirm that vibration levels will be below project specific criteria.			x	x				Compliant & Ongoing	Mitigation measure NV2 Management Sub-Plan. Works have been under and Vibration Manageme
	Where heavy plant is used within seven metres of a heritage structure, attended vibration monitoring will be undertaken to assess compliance with project specific vibration criteria.		x	x	x				Compliant & Ongoing	Mitigation measure NV3 Management Sub-Plan. Works have been under and Vibration Manageme
NV2	Architectural treatments for noise mitigation would be identified by appropriate qualified professional and installed in consultation with property owners.			×	x				Compliant	Architectural treatments consulted with residents
SOIL A	ND WATER	<u> </u>	<u> </u>		<u>.</u>	<u>.</u>		1		
SW1	An erosion and sediment control plan will be developed during detailed design in accordance with Managing Urban Stormwater – Soils and Construction Volume 1 (Landcom, 2004) and Volume 2D (DECC, 2008). This plan will incorporate erosion control measure to limit the movement of soil from disturbed areas, and sediment control measures to remove any sediment from runoff prior to discharge into the river.		x	×	×				Compliant & Ongoing	The approved Construct • Progressive erosion ar • Table 6-1: Mitigation n • Primary Sediment and Works have been under Water Management Sub-
SW2	Appropriate measures will be implemented to contain any turbid water by applying best management practices such as silt curtains or similar.		x	x	x				Compliant & Ongoing	The approved Construct • Table 6-1: Mitigation n Works have been under Water Management Sub
SW3	A water quality monitoring program in compliance with RMS guidelines will be developed and implemented to assist in identifying water quality issues during construction and assessing the effectiveness of mitigation measures.			x	x				Compliant & Ongoing	The approved Construct • Table 6-1: Mitigation n • Water Quality Manage Works have been under Water Management Sub-

V27 of the approved Construction Noise and Vibration

lertaken in accordance of the approved Construction Noise ment Sub-Plan.

V28 of the approved Construction Noise and Vibration

lertaken in accordance of the approved Construction Noise ment Sub-Plan.

V30 of the approved Construction Noise and Vibration

lertaken in accordance of the approved Construction Noise ment Sub-Plan.

nts were installed by appropriately qualified professionals, who nts.

uction Soil and Water Management Plan contains: and sediment control (Section 1.3.2)

n measure SW2

nd Erosion Control Plans (Appendix H).

lertaken in accordance of the approved Construction Soil and ub-Plan.

uction Soil and Water Management Plan contains: n measure SW9.

lertaken in accordance of the approved Construction Soils and ub-Plan.

uction Soil and Water Management Plan contains: n measure SW5

agement Program (Appendix A).

lertaken in accordance of the approved Construction Soils and ub-Plan.

Environ	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report	Phase of Project							Compliance Status	
Measur	8	DD	BPC	PC	С	PoC	ο	D	1	
SVV4	 Water quality controls will be incorporated into the drainage design. This will include controls such as: An end of pipe net type gross pollutant trap connected to the stormwater outlet will be provided. A lockable shut-off valve will be provided at the stormwater pit immediately upstream of the outlet to mitigate the potential impact of spills of hazardous liquids. The water quality basin on the northern bank will be fitted with an underflow baffle arrangement to provide accidental spill capture. 	x			x	x			Compliant	The following water qual An end of pipe net type outlet on the southern s earlier development of the consultation with RMS and Separation type of GPT To mitigate the potenting valves (Penstock Valves) - Southern bank outlet: A NB98005-ECC-DG-0320 - Northern bank outlet: to Drawing No NB98000 A wet permanent basim in the earlier developme accidental spill capture. Here representatives a biofilter been proposed. As a rest basin.
SW5	The existing bridge will demolished in a way to reduce the risk of debris falling into the river.							x	Compliant & Ongoing	Mitigation measure SW2 Management Sub-Plan.
SW6	Debris and rubble will be prevented from entering the river.							x	Compliant & Ongoing	Works have been under and Water Management Works have been under Water Management Sub-
SW7	Disturbance or turbidity will be contained by installing self-containment equipment such as silt curtains.							x	Compliant & Ongoing	Mitigation measure SW9 Sub-Plan. A silt curtain was installe
SW8	Water quality in the river will be monitored in accordance with the RMS Guideline for Construction Water Quality Monitoring to assess the effectiveness of water quality mitigation measures.							x	Compliant & Ongoing	A Water Quality Monito under condition C24. Mitigation measures SW Management Plan. Monitoring has been und
SW9	Demolition activities will be scheduled to avoid or minimise works taking place during times of higher rainfall and river flows.							x	Compliant & Ongoing	Mitigation measure SW2 Management Sub-Plan. Demolition activities will Construction Soil and W
SW10	During excavations, soil and fill material will be visually monitored to identify the potential contaminated material or soils.		x	×	x				Compliant & Ongoing	Mitigation measure CLM Management Sub-Plan. Works have been under Contaminated Land Man Asbestos has been found asbestos assessment was and appropriate manager

uality controls have been proposed:

ype Gross Pollutant Trap (GPT) connected to the stormwater n side of the Hawkesbury River has been considered in the f the design for the outlet. However, following extensive S and Hawkesbury Council a "Continuous Deflection

PT (Rocla CDS0708) has been proposed in lieu of the net type. ential impact of spills of hazardous liquids, two lockable shut-off es) have been proposed at main following outlets:

et: At pit 1.11 just upstream of the outlet. Refer to Drawing No 320 and DG-0322.

et: At the water quality basin outlet structure; Pit 18.01. Refer 005-ECC-DG-0314.

sin with an underflow baffle arrangement has been considered ment of the design for the on the northern bank to provide e. However, following consultation with RMS environmental Itration water quality basin was preferred and therefore has result, an underflow baffle arrangement is not suitable for a dry

V24 of the approved Construction Soil and Water

lertaken in accordance with the approved Construction Soils ent Sub-Plan.

lertaken in accordance of the approved Construction Soils and ub-Plan.

V9 of the approved Construction Soil and Water Management

alled at the commencement of construction works.

itoring Program (WQMP) has been prepared and approved

W41, SW54 of the approved Construction Soil and Water

indertaken in accordance with the approved WQMP.

V27 of the approved Construction Soil and Water

vill be undertaken in compliance with the approved Water Management Sub-Plan.

LM2 of the approved Construction Contaminated Land

lertaken in accordance of the approved Construction lanagement Sub-Plan.

and during construction. Works ceased in the area and an vas conducted by a suitably qualified environmental consultant gement actions were undertaken.

Environ	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		I	Phase	of Pro	oject			Compliance Status	
Measure		DD	BPC	PC	С	PoC	ο	D	-	
SWI I	If potentially contaminated material or soils is suspected, works will cease in the area and additional investigations and monitoring will be undertaken.		x	x	x				Compliant & Ongoing	Mitigation measure CLM Management Sub-Plan. Unexpected Finds Proce Management Sub-Plan. Asbestos has been found asbestos assessment was and appropriate manage
SW12	If it is confirmed that contaminated material or soils is present on site, an appropriate remediation plan will be developed and implemented.		x	x	x				Compliant & Ongoing	Should contaminated ma will be prepared as outlin Appendix B to the appro Plan.
SW13	All fuels and chemicals will be stored and used in compliance with appropriate guidelines and standards. A spill management procedure will be developed and implemented if required.		x	x	x				Compliant & Ongoing	A Pollution Incident Res approved CEMP. Mitigation measures SW Soil and Water Managen Works have been under and Water Management
SW14	Detailed waste management measures and procedures will be included in the CEMP for the project.		x	x	x				Compliant & Ongoing	Detailed waste managen Waste Management Sub Works have been under Management Sub-Plan.
SW15	Waste management measures will be based upon the philosophy of reduce, reuse, recycle and appropriate disposal.		x	×	x				Compliant & Ongoing	Mitigation measure WM Waste Management Sub Works have been under Management Sub-Plan.
SW16	The project induction will cover waste management measures in the CEMP.		x	x	x				Compliant & Ongoing	Mitigation measure WM Waste Management Sub Works have been under Management Sub-Plan.
SW17	All waste material requiring off-site disposal will be classified using the Waste Classification Guidelines and disposed of at an appropriately licensed facility.		x	x	x				Compliant & Ongoing	Mitigation measure WM approved Construction Works have been under Management Sub-Plan.
SW18	Procurement and waste management strategies will be based upon the philosophy of reduce, reuse, recycle and appropriate disposal.		x	×	x				Compliant & Ongoing	Mitigation measure WM Sub-Plan. Works have been under Management Sub-Plan.
SW19	Where applicable, waste that is to be re-used will comply with the conditions attached to EPA resource recovery exemptions for specific materials.		x	×	x				Compliant & Ongoing	Section 5.2 of the appro Works have been under Management Sub-Plan.
SW20	Further acid sulfate soils investigations would be undertaken during detailed design of the project.	x							Compliant	Acid sulfate soils investig Refer to the Geotechnic Design (Jacobs 2017).

LM3 of the approved Construction Contaminated Land

ocedure (Appendix B) Construction Contaminated Land

und during construction. Works ceased in the area and an was conducted by a suitably qualified environmental consultant agement actions were undertaken.

materials or soils be present on site a Remediation Action Plan utlined in the Unexpected Finds Procedure is provided as proved Construction Contaminated Land Management Sub-

Lesponse Management Plan is provided as Appendix B12 to the

SW8 and SW45, SW46, SW48 of the approved Construction gement Sub-Plan.

dertaken in accordance with the approved Construction Soil ent Sub-Plan.

gement measures are outlined in the approved Construction ub-Plan.

dertaken in accordance with the approved Construction Waste

VM7 and Section 7.3 (Training) of the approved Construction Sub-Plan.

dertaken in accordance with the approved Construction Waste

VMI and Section 7.3 (Training) of the approved Construction Sub-Plan.

dertaken in accordance with the approved Construction Waste

VM8 and Section 5.1 (Classification of waste streams) of the on Waste Management Sub-Plan.

dertaken in accordance with the approved Construction Waste

VM3-WM8 of the approved Construction Waste Management

dertaken in accordance with the approved Construction Waste

roved Construction Waste Management Sub-Plan. dertaken in accordance with the approved Construction Waste

stigations were undertaken by Jacobs during detailed design. nnical Factual Report - Windsor Bridge Replacement Detailed

Environ	ronmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		F	Phase o	of Pro	oject		Compliance Status		
Measur	e	DD	BPC	PC	С	PoC	0	D	-	
SW21	If the presence of ASS is confirmed in the river sediment near the existing bridge, an ASS management plan will be developed and implemented. The plan will detail the management, handling, treatment and disposal of ASS and will be prepared in compliance with the Acid Sulfate Soils Assessment Guidelines (ASSMAC, 1998) and the Guidelines for Managing Acid Sulfate Soils (RTA, 2005).		x	×	x				Compliant & Ongoing	A Construction Acid Sulf for the project and appro
SW22	Monitoring of groundwater at piezometers installed for project and the adjacent groundwater bore will be undertaken to identify any impacts during construction. If any impacts on groundwater levels or quality are detected, the potential cause and environmental management measures will be identified and developed.			×	x		×	x	Compliant & Ongoing	A Water Quality Monito by DP&E under condition Mitigation measure SW3 Management Plan. Works have been under and Water Management
SW23	 Demolition of bridge structures containing lead based paints will be undertaken in accordance with the following: Australian Standard AS 436101 – 1995 Guide to lead paint management, Part 1: Industrial applications. Australian Standard AS 4361.2 – 1998, Guide to lead paint management, Part 2: Residential and commercial buildings. Australian Standard AS 2601 – 2001, The demolition of structures. The preferred option for management of lead based paints and the associated mitigation measures will be identified during the construction and demolition planning process. The demolition plan for the existing Windsor bridge would include the details on the reuse, recycling and/or disposal of the demolished components. 							×	Compliant & Ongoing	Mitigation measure AQ2 Plan. An EWMS for bridge der bridge.

Sulfate Soil Materials Management Sub-Plan has been prepared oproved by DP&E.

nitoring Program for the project was prepared and approved ition C24.

V39 of the approved Construction Soil and Water

lertaken in accordance with the approved Construction Soil ent Sub-Plan and the approved WQMP.

Q28 of the approved Construction Air Quality Management

demolition will be prepared prior to demolition of the exiting

Enviro	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		F	hase	of Pro	oject			Compliance Status	
Measur		DD	BPC	PC	С	PoC	ο	D	-	
	DLOGY		1		1					
ні	The extent of obstructions within the river will be minimised as far as practicable at all times during construction and demolition.				x			x	Compliant & Ongoing	An EWMS for bridge der bridge.
H2	The time between completion of construction of the replacement bridge and demolition of the existing bridge will be minimised as far as practicable.				x			x	Compliant & Ongoing	In the project program, t replacement bridge and o as practicable.
H3	Construction infrastructure and equipment will be removed from the river channel and floodplain in the event of a forecast flood to minimise both the risk of damage to infrastructure/equipment and the risk of flood impacts on properties.				x				Compliant & Ongoing	A Flood Warning and Ev outlines when constructi and floodplain.
H4	Appropriate procedures to manage the effects of flooding during construction, and minimise any associated adverse environmental impacts to the greatest extent practicable, will be incorporated into a construction environmental management plan and emergency response plan (to be prepared and approved before the start of construction). The emergency response plan would include procedures to ensure adequate warning of floods is obtained and that appropriate emergency response procedures are implemented in a timely manner.		x	×	x				Compliant & Ongoing	A Flood Warning and Ex For incident response to Response Plan (Appendix
H5	Flood impact mitigation requirements and options for buildings potentially impacted by increased flooding will be investigated during detailed design in consultation with the landholder. Appropriate measures would be identified, developed and implemented, as required, to minimise impacts on the building structure, building access and business opportunities.			x	×				N/A	Strikethrough text reflec
H6	During the detailed design of the new bridge, detailed flood modelling will be undertaken on the final design of the project to identify any additional impacts. This will include collecting survey data at potentially impacted properties with buildings upstream of the bridge. Where impacts are identified, appropriate measures will be identified, developed and implemented, as required, to minimise impacts on the building structures, building accesses and business opportunities.			×					Compliant	Strikethrough text reflec A Hydrological Mitigation detailed design. No 'at pi
H7	Suitable scour protection would be provided to protect the bridge abutments, piers and banks during construction and operation.				×				Compliant & Ongoing	Suitable scour protection Protection of the detailed The placement of scour reporting period.
	JSE, PROPERTY AND SOCIOECONOMIC		1	1	1	1	-			
SEI	Early and ongoing consultation and communication with residents and local businesses will be undertaken to provide information on construction activities, including timing, duration and likely impacts.		x	x	x			×	Compliant & Ongoing	Early and ongoing consul and local business during construction activities. T demolition works. The requirements for co in the Section 3.4, Sectio Communication Strategy Consultation has been un

demolition will be prepared prior to demolition of the exiting

n, the time between completion of construction of the nd demolition of the existing bridge has been minimised as far

Evacuation Plan has been prepared for the project which action infrastructure will be removed from the river channel

Evacuation Plan has been prepared for the project. to pollution incidents (including spills) the Pollution Incident ndix B12 of the CEMP) has been prepared.

flects changes made under the submissions report and PIR

flects changes made under the submissions report and PIR. tion Report has been prepared under condition B5 during t property' mitigation works are required under this report.

tion has been provided, as outlined in the Volume 9 Scour hiled design.

ur protection at the bridge abutments commenced during this

sultation/communication has been undertaken with residents ing the before pre-construction, pre-construction and . This will continue during the construction phase and

consultation and communication with stakeholders is outlined tion 4 and Appendix B of the approved Community egy (CCS) required under condition D13.

undertaken in compliance with the approved CSS.

Environ	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		F	hase	of Pro	oject			Compliance Status	
Measure		DD	BPC	РС	С	PoC	ο	D		
SE2	Affected local business owners will be consulted prior to construction to identify appropriate measures to manage potential impacts.		x	x	x			×	Compliant & Ongoing	Consultation/communica The requirements for co in the Section 3.4, Section Communication Strategy Consultation has been u
SE3	Operators of the Hawkesbury Paddle Wheeler will be consulted prior to construction to identify appropriate measures to manage the temporary access changes to Windsor wharf.		x	x	x			×	Compliant & Ongoing	Consultation/communica Wheeler regarding temp will continue throughout The requirements for co in the Section 3.4, Sectio Communication Strategy Consultation has been u
SE4	Public access will be maintained to key areas of the Hawkesbury River during existing planned events.			×					Compliant & Ongoing	Public access to key area construction.
SE5	Appropriate compensation will be provided in accordance with the Land Acquisition (Just Terms Compensation) Act 1991 for properties acquired as a result of the project.			x					Compliant & Ongoing	Land acquisition has bee
SE6	The town centre and businesses will be protected from the visual impacts of construction through careful placement of appropriate and visually sensitive screening wherever possible.			x					Compliant & Ongoing	Placement of appropriate wherever possible to re- businesses.
SE7	Visitor access to key tourist areas and attractions will be assisted throughout the construction period though the placement of appropriate signage.			x	x				Compliant & Ongoing	Public access to key tour outlined in Chapter 5 of
SE8	Strategies for enhancing the local economic benefits of project construction, such as local employment strategies and sourcing materials from existing local industries, will be considered in the detailed design.	x							Compliant	During the detail design considered. Much of the in adjacent regions.
SE9	Areas affected by construction will be reinstated and restored in accordance with the urban design and landscape concept for the project as soon as practicable.					x	x		Compliant & Ongoing	Areas affected by constr practicable.
FLORA	AND FAUNA									
FFI	The project induction will include relevant information, mitigation measures and procedures on protecting the biodiversity of the area during construction.		x	x	x			x	Compliant & Ongoing	The project induction is Details on the flora and 7.2 of the approved Cor Project inductions have
FF2	Temporary infrastructure (plant sites and offices etc) will be located in cleared areas away from vegetation. Clear boundaries will be applied for construction and exclusion zones for equipment, machinery and traffic to prevent unnecessary damage to native vegetation and fauna habitats.		x	x					Compliant & Ongoing	Mitigation measure FF2 Sub-Plan. Works have been under and Fauna Management

nication has been undertaken with local business.

r consultation and communication with stakeholders is outlined ction 4 and Appendix B of the approved Community regy (CCS) required under condition D13.

undertaken in compliance with the approved CSS.

nication has been undertaken with the Hawkesbury Paddle emporary access changes to Windsor Wharf. This consultation nout construction.

r consultation and communication with stakeholders is outlined ction 4 and Appendix B of the approved Community

egy (CCS) required under condition D13.

undertaken in compliance with the approved CSS.

areas of the Hawkesbury River has been maintained during

been undertaken in accordance with the Land Acquisition Act

riate and visually sensitive screening has been installed reduce visual impacts of construction on the town centre and

tourist attractions have been maintained during construction as of the approved Construction Traffic Management Plan.

ign the supply of materials, plant and subcontractors was the materials, plant and subcontractors are availbale locally or

nstruction will be reinstated and restored as soon as

n is outlined in Chapter 5 of the approved CEMP. nd fauna component of the site induction is outlined in Section Construction Flora and Fauna Management Sub-Plan. ve occoured for all new personnel onsite.

F2 of the approved Construction Flora and Fauna Management

dertaken in compliance with the approved Construction Flora nt Sub-Plan.

Enviror	nmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report	Phase of Project						Compliance Status		
Measur	e	DD	BPC	PC	с	PoC	0	D	-	
FF3	Clearing limits will be accurately and clearly marked including trees/vegetation to be retained including riparian zones.			×					Compliant & Ongoing	Mitigation measure FF3 Sub-Plan. Works have been under and Fauna Management
FF4	• Once construction areas have been surveyed and marked, a suitably qualified and experienced fauna ecologist will undertake a pre-clearing survey to identify any concerns to specific species.			×					Compliant & Ongoing	Detailed in the approved - Mitigation measure FF - Pre-Clearing Survey (A - Pre-clearing Checklist Works have been under and Fauna Management
	\cdot A survey of the existing bridge structure will be undertaken by boat by an ecologist to confirm the bridge is not providing habitat for microchiropteran bats or other roosting bats.			×					Compliant & Ongoing	During the Pre-clearance unlikely that any nests an heavy traffic across the b will be undertaken to ch is required by mitigation Fauna Management Sub-
	• Should the results of the bat survey and roost assessment indicate that the existing bridge occupied by microbats, a bat management plan will be prepared to mitigate the potential impacts on bats. The plan would include details of an appropriate work schedule, any further close inspections that may be required and exclusion and relocation of fauna away from the construction site.			×					Compliant & Ongoing	A Bat Management Plan bats roosting in the exis survey prior to demoliti Construction Flora and
	· WIRES will be made aware of the project and consulted if any injured fauna are encountered or if any fauna are injured as a result of the works.			×					Compliant & Ongoing	Detailed in the approved - Mitigation measure FE - Fauna Handling and Re Works have been under and Fauna Management
	\cdot An ecologist or WIRES representative will be present during the clearing of suspected vegetation that may support a habitat for fauna to manage and/or relocate any fauna present.			×					Compliant & Ongoing	Detailed in the approved - Mitigation measure FF - Pre-clearing Checklist Works have been under and Fauna Management
FF5	Management plans and measures will be developed and implemented to minimise water quality impacts from construction. A discussion on water quality mitigation measures has been provided in Section 7.6.6.			x					Compliant & Ongoing	Refer to mitigation meas Soil and Water Managen
FF6	• Minimise the area of disturbance in riparian zones by clearly marking out work zones in riparian areas and protect areas with para-web fencing or similar material.			×					Compliant & Ongoing	Detailed in the approved - Mitigation measure FF6 - Section 6.1 of the Con - Clearing and Grubbing Works have been under and Fauna Management

F3 of the approved Construction Flora and Fauna Management

dertaken in compliance with the approved Construction Flora nt Sub-Plan.

ved Construction Flora and Fauna Management Sub-Plan:

FF4 (Table 6-1)

(Appendix G)

ist (Appendix A).

dertaken in compliance with the approved Construction Flora nt Sub-Plan.

ance Survey, no nests were observed in this area and it is s are present due to high noise and vibration disturbance from ne bridge. An additional preclearing survey of Windsor Bridge o check for fauna and nests prior to bridge removal works. This ion measure FF4 of the approved Construction Flora and ub-Plan

an will be prepared to mitigate potential impacts to xisting bridge, in the event they are identified in the ecologist vition. As required by mitigation measure FF4 of the approved and Fauna Management Sub-Plan.

ved Construction Flora and Fauna Management Sub-Plan: FF5 (Table 6-1)

Rescue Procedure (Appendix C).

dertaken in compliance with the approved Construction Flora nt Sub-Plan.

wed Construction Flora and Fauna Management Sub-Plan: FF5 (Table 6-1)

ist (Appendix A).

dertaken in compliance with the approved Construction Flora nt Sub-Plan.

easures SWI, SW2 and SW3 of the approved Construction gement Sub-Plan.

ved Construction Flora and Fauna Management Sub-Plan: FF6 (Table 6-1)

onstruction Flora and Fauna Management Plan

ing Plan (Appendix F).

dertaken in compliance with the approved Construction Flora nt Sub-Plan.

Environmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report			I	hase	of Pro	oject			Compliance Status	
Measure		DD	BPC	PC	С	PoC	ο	D		
	· All works near riparian zones will have adequate sediment and erosion control.			x					Compliant & Ongoing	Mitigation measure FF6 Sub-Plan. Progressive Erosion and developed throughout c
FF7	· Establish a noxious weed management protocol.			×					Compliant & Ongoing	Detailed in the approve - Noxious Weed Manag - Vegetation Managemen Works have been under and Fauna Management
	• All noxious weeds which are cleared as part of the project will be disposed of appropriately.			x					Compliant & Ongoing	Detailed in: - Approved Construction measure FF10) - Noxious Weed Manag - Vegetation Management Works have been under and Fauna Management
	• Inspection/maintenance procedures will be implemented to reduce the carriage of weed material on machinery.			×					Compliant & Ongoing	Detailed in: - Approved Construction measure FF10) - Noxious Weed Manage - Vegetation Management Works have been under and Fauna Management
FF8	· A monitoring program (including a weekly checklist) will be developed to check that all proposed impact mitigation measures have been effectively implemented.			×					Compliant & Ongoing	Detailed in the approve - Mitigation measure FF - Section 7 of the approve Vegetation Management Works have been under and Fauna Management
	• In the event that impact mitigation measures do not perform effectively, the management program will be adjusted with further appropriate measures.			×					Compliant & Ongoing	Detailed in the approve - Mitigation measure FF - Review and Improvem Works have been under and Fauna Management
FF9	• While no substantial trees with hollows were identified during the survey, if trees with hollows are found, their removal will be avoided where practicable. Where this is not possible, the tree will be maintained intact as far as possible and placed on the ground in adjoining vegetation.			x					Compliant & Ongoing	No hollow bearing trees however, it was noted in for bird and bat species Windsor Bridge.
	• Habitat trees will be inspected for fauna by ecologist or WIRES carer and habitat trees will be felled carefully to minimise impact.			x					Compliant & Ongoing	Detailed in the approve - Mitigation measure FF -Clearing and Grubbing Works have been under and Fauna Management

6 of the approved Construction Flora and Fauna Management

nd Sediment Control Plans have been (and will continue to be) construction.

ved Construction Flora and Fauna Management Sub-Plan: agement Protocol (Appendix E)

ent Plan (CEMP Appendix B11).

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

tion Flora and Fauna Management Sub-Plan (Mitigation

agement Protocol (Appendix E)

nent Plan (CEMP Appendix BII).

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

tion Flora and Fauna Management Sub-Plan (Mitigation

agement Protocol (Appendix E)

nent Plan (CEMP Appendix BII).

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

ved Construction Flora and Fauna Management Sub-Plan:

FFII (Table 6-1)

roved Construction Flora and Fauna Management Plan ent Plan (CEMP Appendix B11).

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

ved Construction Flora and Fauna Management Sub-Plan: FFII (Table 6-1)

ment (Section 8).

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

ees or logs were identified during the pre-clearing survey; d in the pre-clearance survey that potential habitat may exist es amongst the girders and pylons underneath the existing

ved Construction Flora and Fauna Management Sub-Plan: FF5 (Table 6-1)

ng Plan (Appendix F).

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

Environ	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report	Phase of Project						Compliance Status		
Measur	e	DD	BPC	PC	с	PoC	ο	D	-	
FFIO	·In-stream and riparian disturbance will be minimised during construction through clearly delineated working areas.			×					Compliant & Ongoing	Mitigation measure FF7 Sub-Plan. Works have been under and Fauna Management
	·Removal of instream woody snags (>3 m in length and >300 mm diameter) will be avoided where practicable. Any woody snags that require removal during construction will be relocated insitu.			x					Compliant & Ongoing	Mitigation measure FF8 Sub-Plan. Works have been under and Fauna Management
FFII	·In-stream disturbance from dredging will be managed and mitigated as appropriate to minimise impacts. Appropriate measures will include insitu measures to limit the risk of sediment plumes and increased turbidity, such as silt curtains (or similar).			x					Compliant & Ongoing	Mitigation measure FF9 Sub-Plan. Works have been under and Fauna Management
FF12	• Areas disturbed as a result of the project will be stabilised and rehabilitated through a progressive landscaping program that takes advantage of optimal growing conditions and is appropriate to the final land use.			x					Compliant & Ongoing	Mitigation measure FF12 Management Sub-Plan. Vegetation Management Works have been under and Fauna Management
	·Where possible riparian zone rehabilitation will include appropriate native species.			×					Compliant & Ongoing	Vegetation Management Windsor Bridge Replace Works have been under
AIR QU	JALITY		1				1	1		
AQI	Dust control measures will be included in the Construction Environmental Management Plan to minimise the risk of impacts on sensitive receivers. Dust environmental management measures will include: • Covering of all materials transported to and from the construction site. • Covering of or spraying water on stockpiles of soil or other erodible materials, particularly during dry or windy conditions. • Suppressing dust on unsealed surfaces, temporary roadways, and other exposed areas using water trucks, hand held hoses, temporary vegetation or other appropriate practices. • Imposing work vehicle speed limits on unsealed surfaces. • Locating stockpiles as far away from residences as practically possible. • Minimising the extent of disturbed areas as far as practicable. • Rehabilitating disturbed areas as quickly as possible. • Modifying or stopping dust generating activities during very windy conditions. • Operating and maintaining vehicles and equipment in accordance with manufacturer's specifications. • Visual monitoring of air quality to verify the effectiveness of controls and enable early intervention. • Installing wheel wash facilities to reduce tracking of mud and soil off-site. • A procedure to receive, respond and monitor complaints about air quality and other environmental issues.		x	×	×				Compliant & Ongoing	These management mean Air Quality Management Works have been under Quality Management Plan A range of measures hav covered trucks, spraying

7 of the approved Construction Flora and Fauna Management

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

8 of the approved Construction Flora and Fauna Management

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

9 of the approved Construction Flora and Fauna Management

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

12 of the approved Construction Flora and Fauna

nt Plan (CEMP Appendix B11).

lertaken in compliance with the approved Construction Flora nt Sub-Plan.

nt Plan (CEMP Appendix BII)

cement 100% Landscape Design Drawings.

lertaken in compliance with the Vegetation Management Plan.

easure is included in Table 6-1 of the approved Construction ent Plan.

lertaken in compliance with the approved Construction Air Plan.

nave been implemented to minimise dust including water carts, ng polymer or covering soil stockpiles.

Enviror	Environmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		P	hase	of Pro	ject			Compliance Status	
Measure		DD	BPC	РС	С	PoC	ο	D		
AQ2	 Demolition of existing bridge structures containing lead based paints will be undertaken in accordance with the following: Australian Standard AS 4361.1 – 1995 - Guide to lead paint management, Part 1: Industrial applications. Australian Standard AS 4361.2 – 1998 - Guide to lead paint management, Part 2: Residential and commercial buildings. Australian Standard AS 2601 – 2001 - The demolition of structures. 							×	Compliant & Ongoing	This management measur Management Plan as mitig Demolition works will be Standards.

asure is included in the approved Construction Air Quality nitigation measure AQ28.

l be undertaken in accordance with the relevant Australian

Environ	mental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report			Phase (of Pro	oject			Compliance Status	
Measure		DD	BPC	PC	С	PoC	0	D	1	
AQ3	The options for the management of lead based paints during the demolition of the existing bridge structure (based on the respective Australian standards) are as follows: · Containment – this option will involve the implementation of a high level of containment to prevent dust and debris spreading beyond the immediate works site during demolition. · Paint stabilisation – paint stabilisation will require the existing surfaces to be stabilised with another non- hazardous covering. During both stabilisation and structure removal, a moderate level of containment will be required. · Paint removal – paint removal will require the existing painted surfaces to be removed prior to demolition. During paint removal, a high level of containment will be required. Little to no containment will be required to manage the demolition of the structure following removal of the lead based paints.							×	Compliant & Ongoing	An EWMS for bridge de bridge.
AQ4	Regardless of the implementation of either of these options, the management of lead based paints will entail: · Containment of the work area and implementation of procedures and systems to prevent dust and debris spreading beyond the immediate work area. · Exclusion of the public from the work area · Regular clean-up and disposal of debris during the work period.							×	Compliant & Ongoing	An EWMS for bridge de bridge.
AQ5	In the unlikely event that asbestos is discovered, the subject works will be carried out in accordance with the Guide to the Control of Asbestos Hazards in Buildings and Structures (NOHSC, 1988) and Code of Practice for the Safe Removal of Asbestos (NOHSC, 2002). An employer must ensure that air monitoring is carried out if a risk assessment as described by the Occupational Health and Safety Regulation 2001 indicates the need for one.				×				Compliant & Ongoing	Mitigation measure CLM Management Plan. Asbestos has been found asbestos assessment wa and appropriate manage
CLIMAT		1						1		
ССІ	The potential for increased scour of bridge piers, bridge abutments and increased frequency of inundation of flood affected properties will be considered in the detailed design process.	x							Compliant	Scour protection and in design: - Southern River Bank S - Hydrological Mitigatior
GREEN	HOUSE GASES	1						1		
GHGI	Construction material selection will include recycled material and local materials where possible including: · Concrete with a greater proportion of flyash. Higher flyash content would lower the carbon footprint of the mix. · Recycled steel as opposed to virgin steel. · Sourcing local materials.				×				Compliant & Ongoing	Mitigation measure WM Plan. Works have been under Sub-Plan.
GHG2	Fuel efficient plant and equipment will be selected, where practicable.				×				Compliant & Ongoing	Mitigation measure WM Plan. Works have been under Sub-Plan.
GHG3	Biofuels will be used where practicable.				x				Compliant & Ongoing	Mitigation measure WM Plan. Works have been under Sub-Plan.

demolition will be prepared prior to demolition of the exiting

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CLM7 in the approved Construction Contaminated Land

und during construction. Works ceased in the area and an was conducted by a suitably qualified environmental consultant agement actions were undertaken.

l inundation of properties were considered during detailed

k Stability and Scour Protection - Detailed Design Report. tion Report has been prepared under condition B5.

VM35 of the approved Construction Waste Management Sub-

dertaken in compliance with the approved Waste Management

VM36 of the approved Construction Waste Management Sub-

dertaken in compliance with the approved Waste Management

VM37 of the approved Construction Waste Management Sub-

dertaken in compliance with the approved Waste Management

Environmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report Measure			F	hase	of Pro	oject		Compliance Status		
		DD BPC PC		С	PoC C		D	1		
GHG5	Where practicable, waste materials will be reused on site such as general fill, rock, aggregate and mulch from cleared vegetation.				x				Compliant & Ongoing	Mitigation measure WM3 Plan. Works have been undert Sub-Plan.
GHG6	Use of LED or other energy efficient lighting will be investigated during detailed design. This has the potential to reduce electrical energy consumption. Appropriate energy efficient lighting would only be used where the standard of lighting can meet AS/NZS lighting design standards for major roads and pedestrians.						x		Compliant & Ongoing	The use of energy efficier detailed design.

/M38 of the approved Construction Waste Management Sub-

lertaken in compliance with the approved Waste Management

cient and other energy efficient lighting was addressed in the