Windsor Bridge Replacement Project (SSI-4951)

Bi-Annual Compliance Tracking Report

January 2020 – June 2020

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File name	Windsor Bridge Compliance Tracking Bi-Annual Report
Report name	Windsor Bridge Compliance Tracking Bi-Annual Report: January 2020 – June 2020
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Plan approved by:

Michael Andrews	Chloe Redman	Gene Gill
Georgiou Project Manager	Georgiou Environment Representative	Transport for NSW Representative

Revision history

Revision	Date	Prepared by	Reviewed by
A	27/07/2020	KR	
B	25/08/2020	KR	CR
C	27/08/2020	KR	GG and TH

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
CoA	Condition of Approval
CSWMP	Construction Soil and Water Management Plan
CTMP	Construction Traffic Management Plan
CTP	Compliance Tracking Program
DPIE	Department of Planning, Infrastructure and Environment (formerly 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 19011:2018, 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.
EES	Department of Environment, Energy and Science (formerly Office of Environment and Heritage)
PESCPs	Progressive Erosion and Sediment Control Plans
Project, the	Windsor Bridge Replacement Project
REMM	Revised Environmental Management Measures
Transport	Transport for NSW (formerly Roads and Maritime Services)
Secretary	Secretary of the NSW Department of Planning and Environment (or delegate)
SPIR	Submissions / Preferred Infrastructure Report

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Appendices

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, Infrastructure and Environment (DPIE, formerly Department of Planning and Environment) on 20 September 2018. An amendment was made to the CTP (Rev E) to provide reporting bi-annually, and this was approved by DPIE on 31 July 2019.

As part of the CTP, Construction Compliance Reports must be prepared at bi-annual 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 bi-annual reporting period from 01 January 2020 to 30 June 2020.

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 Transport for NSW (Transport, formerly Roads and Maritime Services). Georgiou and Transport are jointly responsible for compliance under the CTP.

1.1 Project Approval Documentation

Documentation relevant to this bi-annual 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
- Windsor Bridge Replacement Project – Environmental Assessment Modification (Roads and Maritime Services, September 2019)
- Windsor Bridge Replacement Project – Submissions Report (Transport for NSW, February 2020)
- Infrastructure Approval SSI-4951 (approved by the Minister for Planning and Infrastructure on 30 April 2020)

2. 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, retaining walls and drainage;
- **Pavement**s – 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.

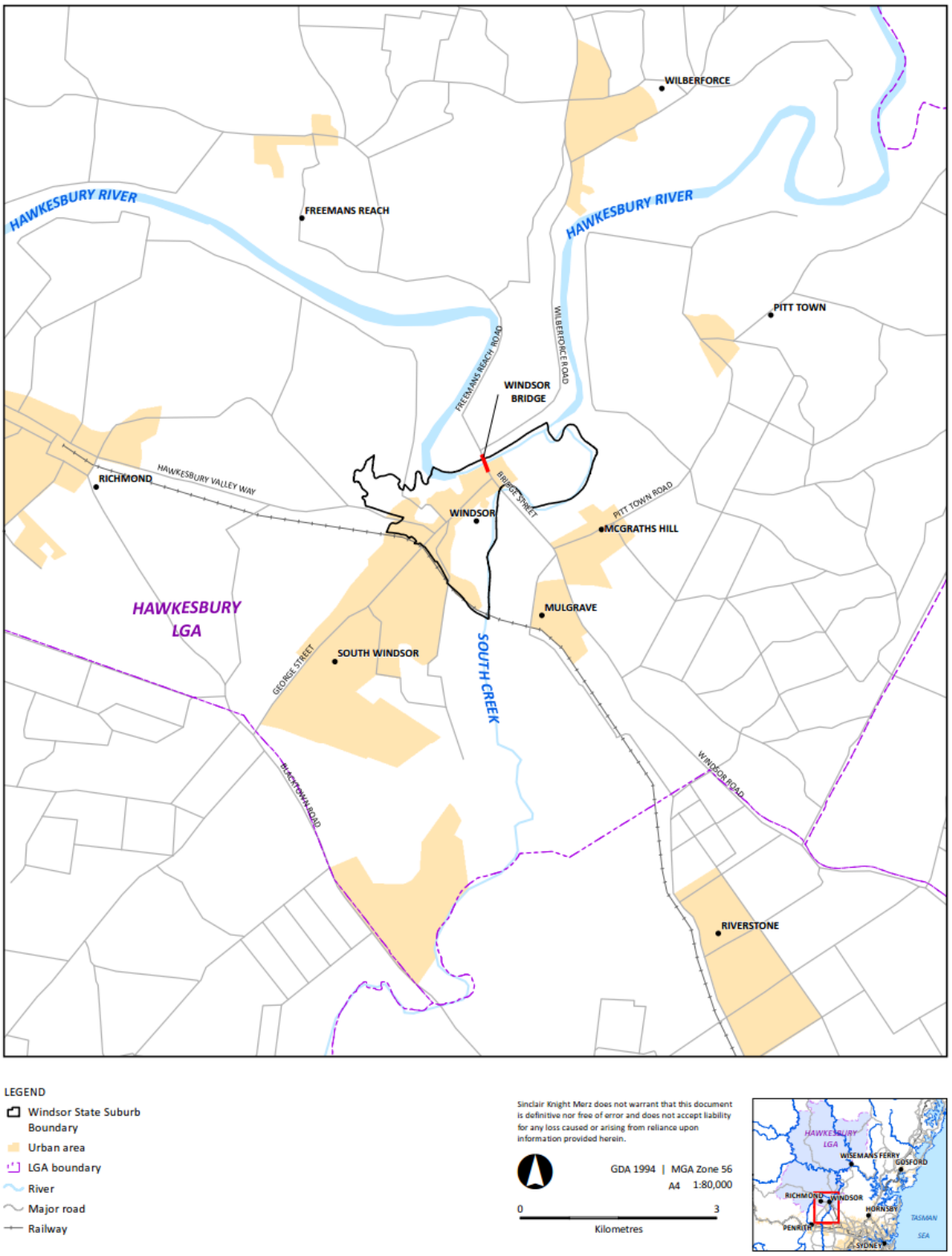

Figure 2-1 - Location of the Windsor Bridge Replacement Project

3. Project Management

The Project is being constructed by Georgiou, with overall project management and supervision of the project by Transport.

Georgiou and Transport 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 bi-annual reporting cycle following the commencement of construction.

4.2 Scope of Activities Undertaken During the Reporting Period

During 1 January 2020 to 30 June 2020, construction for the project has seen the following activities started and progressed towards completion:

- Construction of the new Wilberforce Road alignment
- Construction of the new roundabout at the northern bridge approach
- Resurfacing and asphalting works of the new bridge,
- Traffic switch onto the new Windsor Bridge
- Installation of services and enabling works for the new traffic lights at the George and Bridge Street intersection
- Installation of drainage on Wilberforce Road
- Installation of stormwater drainage on the southern bank
- Commencement of works on Freemans Reach Road, including the installation of services and utilities and excavation for pavements.

4.3 Approvals

The status of approvals achieved for the period January 2020 to June 2020 is provided in Table 4-1.

Table 4-1 - Approvals (January 2020 to June 2020)

CoA	Item	Approval Status
C5	Aboriginal Archaeological Salvage Report	Submitted to DPIE 26 February 2020 Approved by DPIE 21 May 2020
C14	Out of Hours Works 31 (Revised)	Submitted to DPIE 4 May 2020 Approved by DPIE 7 May 2020

CoA	Item	Approval Status
	Out of Hours Works 32 (Revised)	Submitted to DPIE 13 May 2020 Approved by DPIE 19 May 2020
C24	Water Quality Annual Report	Submitted to DPIE for information on 27 February 2020
D5	Updated Construction Noise and Vibration Management Sub-Plan	Submitted to DPIE 26 February 2020 Approved by DPIE 3 March 2020
	Updated Construction Heritage Management Sub-Plan	Submitted to DPIE 26 February 2020 Approved by DPIE 19 March 2020
	Approval to resume work under the Unexpected Finds Procedure	Submitted to DPIE 24 June 2020 Response not received as of 30 June 2020
D6	Compliance Tracking Report #4 (Jul – Dec 2019)	Submitted to DPIE for information on 26 February 2020
	Independent Environmental Audit Report #2	Submitted to DPIE for information on 27 February 2020
	Independent Environmental Audit Report #3	Submitted to DPIE for information on 5 May 2020
D14	Alternate ER Request	Submitted to DPIE 2 June 2020 Approved by DPIE 9 June 2020
-	Response to COVID-19 Plan	Submitted to DPIE for information on 29 May 2020

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;
- Engaging specialist consultants where required
- 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 with clearance given by the Heritage Manager once salvage had been complete in specified areas

- 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 action
- Management of 'high' risk activities through Environmental Work Method Statements (EWMS)

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 and during the reporting period the southern bank curtain has been removed
- Out of Hours Works continue to be planned and executed. The environment team monitor noise levels and provides an environmental surveillance for night works.
- Vibration monitoring on heritage listed buildings is being undertaken in accordance with the Noise and Vibration Management Plan
- Appropriately licensed and qualified animal handler has been engaged to relocate snakes when required
- Ongoing environmental monitoring of works (such as noise, vibration, air quality and water) is being conducted
- Weekly, and pre- and post- rainfall inspections have been conducted across the project as per CEMP and sub plans
- Watercarts and street sweepers are regularly on site and active in minimising dust generation and in disturbed areas
- Soil binders have been used for dust suppression of batters and temporary stockpiles
- The preservation of the timbers for future permanent preservation at a conservation facility.

4.5 Environmental Incidents and Actions Taken

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

No incidents were reported to DPIE under condition D7.

Table 4-2 - Environmental Incidents January 2020 to June 2020

No	Category*	Description of Incident	Date	Action
032	2	Washing out of a concrete hopper did not follow the correct procedure. The spill was contained in the box out for the new road which is to be filled and asphalted at a later date	08/01/2020	Agi drivers have been reminded of correct washout procedures and pump operators reminded to not allow drivers to wash out into their pump hoppers.

No	Category*	Description of Incident	Date	Action
035	2	Approx. 2 L of glyphosate mixed with water and green dye was spilled from the spraying knapsack. The spill occurred away from stormwater drains and open water.	25/03/2020	The spill was contained and cleaned up using materials from the spill kit
040	2	A drum of hydraulic oil was knocked over causing around 3 to 4L of oil to spill onto the DGB ground below. The spill occurred away from stormwater drains and open water.	02/06/2020	The spill was contained and cleaned up using materials from the spill kit
041	1	Approx. 500ml of silicon based corrosion inhibiting solution lead being used on the new bridge seeped through an area that had been repaired and into the river.	09/06/2020	Works stopped, and an alternative method was used
043	1	On two consecutive days, pavement works were not completed by 6pm. This occurred due to the pavement's natural variability.	15/04/2020 16/04/2020	The tonnage of the pavement installation will be reduced in future works. Where this is not possible an OOHW approval will be obtained prior to the works commencing.

*Category determined in accordance with the *RMS Incident and Incident Classification and Reporting Procedure (2018)*

4.6 Independent Environmental Auditing

SNC Lavalin has been employed by Transport and Georgiou to act as the Independent Environmental Auditor (IEA). The IEA has been engaged to conduct bi-annual independent environmental audits of the Project as required by the approved Project Compliance Tracking Program.

The audit was undertaken on the 23 and 24 March 2020 in accordance with *ISO 19011:2014 - Guidelines for Quality and/or Environmental Management Systems Auditing*. The previous audit was undertaken in September 2019.

The findings from the audit undertaken in March 2020 concluded:

- Site environmental controls were observed to be being implemented effectively.
- The site is operating in an environmentally responsible manner, and in general compliance with the Infrastructure Approval.
- The experienced management team appeared to be effectively managing environmental resources on site.
- Strong evidence on site was observed to indicate that environmental management plans, systems and protocols are being correctly implemented.
- Zero (0) non-conformances were identified during the audit.
- Four (4) non-conformances from the previous Independent Audit Report (Feb 2020) and two (2) non-conformances from the Compliance Tracking Report (Feb 2020) have been included as previous audit actions and the proponent's response to these actions has been addressed.

The following opportunities for improvement were identified during the reporting period.

- Condition C12 – Prior to the commencement of the demolition of the existing bridge, the hydraulics of any new equipment that will be operating over the waterway is tested to minimise risk of a major hydraulic spill.
- Condition C15 – It is recommended that the site induction is updated to explicitly include the hours for activities resulting in impulsive or tonal noise emission (such as rock breaking, rock hammering and pile driving).
- Condition D5 – The site induction is updated to include traffic speed requirements for site.

Further information regarding the close-out of the opportunities for improvement will be provided to DPIE in July 2020 and will be discussed in the next compliance tracking report (July to December 2020)

The next audit is scheduled for September 2020.

4.7 Routine Inspections and Monitoring Outcomes

Regular inspections were undertaken by the ER and Transport Environment Branch representatives. A total of 15 inspections were undertaken between January and June 2020. A summary of the inspections can be seen in Table 4-3.

During these inspections the following environmental matters were identified.

- 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
- 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 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.

The following monitoring occurred during the reporting period, and is outlined in Appendix A and Appendix B.

- Surface and groundwater monitoring
- Weed management
- Noise and vibration monitoring
- Fauna monitoring

Table 4-3 - Environmental Inspections and Outcome January 2020 to June 2020

Date	Total Number	Type	Attendees	Outcome*
January 2020	(3)			
8	-	Transport	Transport (Karina Rubenis, Taryn Woods) Georgiou (Chloe Redman)	Green
22	-	Transport	Transport (Karina Rubenis, Gene Gill, Sean MacGregor, Adele McCaul); Georgiou (Chloe Redman, Wayne Mayo);	Green
30	-	ER	DPIE (Jake Shackleton, Tracy Bellamy); Transport (Karina Rubenis, Gene Gill, Sean MacGregor, Adele McCaul); Georgiou (Chloe Redman, Michael Andrews); Vantage (Toby Hobbs)	Green
February 2020	(2)			
5	-	Transport	Transport (Karina Rubenis, Dom Callaghan, Taryn Woods) Georgiou (Chloe Redman)	Green
24	-	ER	DPIE (Michaela Burgess); Transport (Con Lambous, Karina Rubenis, Dom Callaghan); Georgiou (Michael Andrews, Chloe Redman); Vantage (Toby Hobbs). Close-out meeting with Transport (Gene Gill and Eilin Edisho)	Green

Date	Total Number	Type	Attendees	Outcome*
March 2020	(2)			
4	-	Transport	Transport (Karina Rubenis, Taryn Woods); Georgiou (Chloe Redman)	Green
23	-	ER	Transport (Gene Gill, Karina Rubenis); Georgiou (Niall Hurley, Chloe Redman); Atkins (Richard Peterson, Alex Butler); Vantage (Toby Hobbs)	Green
April 2020	(3)			
2	-	Transport (virtual)	Transport (Karina Rubenis); Georgiou (Chloe Redman)	Green
16	-	Transport (virtual)	Transport (Karina Rubenis); Georgiou (Chloe Redman)	Green
20	-	ER	Transport (Gene Gill, Karina Rubenis), Georgiou (Chloe Redman, Wayne Mayo); Vantage (Toby Hobbs)	Green
May 2020	(2)			
14	-	ER	Transport (Karina Rubenis), Georgiou (Chloe Redman); Vantage (Toby Hobbs)	Green
27	-		Transport (Karina Rubenis, Sean MacGregor, Brenden Wallis); Georgiou (Chloe Redman)	Green

Date	Total Number	Type	Attendees	Outcome*
June 2020	(3)			
6	-	Transport	Transport (Karina Rubenis); Georgiou (Chloe Redman)	Green
15	-	ER	Transport (Graham Standen, Karina Rubenis); Georgiou (Chloe Redman, Michael Andrews); Vantage (Toby Hobbs)	Green
24	-	Transport	Transport (Gene Gill, Karina Rubenis, Brenden Wallis), Georgiou (Chloe Redman, Glen Bolton)	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

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

Table 4-4 - Environmental Complaints January 2020 to June 2020

Month	No. of Community Environmental Complaints	Type Nature
January 2020	3	Unauthorised of residential water supply and minor property damage. Vibration impacts. Traffic management.
February 2020	3	Vibration impacts. Multiple issues regarding flooding addressed to Planning Secretary. Footpath access
March 2020	-	-
April 2020	3	Construction occurring outside of standard construction hours. Vibration impacts. Light spill.
May 2020	2	Closure of Freemans Reach Road and motorists cutting through property. Vibration impacts.
June 2020	1	Closure of Freemans Reach Road and motorists cutting through property.

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 was implemented.

The following non-compliances occurred during the reporting period.

- Non-compliance associated with the Construction Noise and Vibration Management Sub-plan (CoA D5c).
  Works were undertaken past the approved construction time of 6pm, on two consecutive nights (15 and 16 April 2020). This event was reported as Category 1 incident. The incident did not result in actual or potential significant offsite environmental impacts on people or the biophysical environment so therefore it was not reported under condition D7. The impact was not deemed significant as it did not result in sleep disturbance at the closest sensitive receiver. The resident, associated with the complaint, has also since been consulted about other works, and not expressed any further issues.

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 has been reviewed bi-annually and 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 4-5 provides a list of actual training sessions in line with the work fronts and response to current issues.

Table 4-5 - Training provided

Specific Environmental Training	Date	Training Content
Environmental Incident Response Procedure Test	21/2/2020	Incident response procedure.
6 Month Environmental Awareness Refresher	21/2/2020	6 month environmental awareness refresher conducted with all staff and subcontractor personnel on site. Training covered all aspects of environmental management relevant to the project.
EWMS Training – Traffic Switch	14-16/5/2020	Training on Environmental Work Method Statement developed for the Traffic Switch. Environmental considerations included OOHW controls, excavation of Coal Tar Asphalt and working around heritage buildings and vibration monitoring.
EWMS Training – Excavation Works and Unexpected Finds	18/5/2020	Training on Environmental Work Method Statement developed for excavation works on the southern bank where there is a potential to encounter unexpected heritage finds. Training reiterated the Unexpected Finds Procedure.

Specific Environmental Training	Date	Training Content
EWMS Training – Clearing of Trees	26/5/2020	Training on Environmental Work Method Statement 'Clearing and Grubbing'. Specifically for the removal of trees in Thompson Square. Environmental considerations include fauna management, noise, community and OOHW for one tree
6 Month Environmental Awareness Refresher	12/6/2020	6 month environmental awareness refresher conducted with all staff and subcontractor personnel on site. Training covered all aspects of environmental management relevant to the project.

5. Compliance with Project Approvals and REMM

The bi-annual 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
C	Construction
PoC	Post-construction
O	Operation
D	Demolition

Grey text (compliant)

Black text (compliant and on-going)

PART A. ADMINISTRATIVE CONDITIONS		Phase of Project							Compliance Tracking Report: Jan 2020 - June 2020	
									Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
Terms of Approval										
A1.	The Applicant shall carry out the SSI generally in accordance with the: (a) State Significant Infrastructure Application SSI-4951;	x	x	x	x	x	x	x	Compliant & Ongoing	
	(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;	x	x	x	x	x	x	x		The CEMP and sub-plans address all requirements of SSI-4951, the EIS, SPIR and the pre-construction documentation. The modification was approved 30 April 2020. The CEMP and sub-plans are to also incorporate the Modification and Submission report.
	(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 Commitments contained therein;	x	x	x	x	x	x	x		The Construction Heritage Management Plan has been updated to include requirements for archival recording and interpretation of the existing bridge prior to commencing the removal of the bridge. Approval was received 19 March 2020.
	(d) Windsor Bridge replacement project – Environmental assessment modification prepared by Roads and Maritime Services, dated September 2019;				x	x	x	x		The noise and vibration management plan has been updated to include sensitive receivers not included in the EIS. Approval was received 8 April 2020
	(e) Windsor Bridge replacement project – Submissions report prepared by Transport for NSW, dated February 2020;				x	x	x	x		The water quality monitoring program has been updated to refine the sampling regime and parameters for the project. The plan is to be submitted July 2020.
	The Applicant shall submit a Strategic Conservation Management Plan (CMP) to the Planning Secretary 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 Planning Secretary. 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	x	x	x	x	x	x		
	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 Planning Secretary. 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	x	x	x	x		
A2.	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 Planning Secretary 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	x	x	x	x	x	x	Compliant & Ongoing	This condition is noted for the project.

		Phase of Project							Compliance Status	Comments
PART A. ADMINISTRATIVE CONDITIONS										
		DD	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
A3.	The Applicant shall comply with any reasonable requirement(s) of the Planning Secretary arising from the Department's assessment of:	**x**	**x**	**x**	**x**	**x**	**x**	**x**	Compliant & Ongoing	This condition is noted for the project.
	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 Planning Secretary 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**	**x**	**x**	**x**	**x**	**x**	**x**		
	The Archaeological Investigation Program is to be undertaken by an archaeological heritage consultant approved by the Planning Secretary 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**	**x**	**x**	**x**	**x**	**x**	**x**		
Limits on Approval										
A4.	(f) preparation of a Hawkesbury Region Sand Bodies Study to the satisfaction of the Planning Secretary 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 Planning Secretary 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.		**x**	**x**	**x**				Compliant	Consent for the project as granted on 20 December 2013. Archaeological investigations commenced in August 2016.
Staging										
A5.	The Applicant may elect to construct and/or operate the SSI in stages. Where staging is proposed, the Applicant shall submit a Staging Report to the Planning Secretary prior to the commencement of the first proposed stage. The Staging Report shall provide details of:				**x**	**x**	**x**	**x**	Compliant	Roads and Maritime does not propose to construct and/or operate the SSI in stages.
	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 completed, unless otherwise agreed by the Planning Secretary.				**x**	**x**	**x**	**x**		
	(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.				**x**	**x**	**x**	**x**		
	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).				**x**	**x**	**x**	**x**		
	The Applicant shall ensure that an updated Staging Report (or advice that no changes to staging are proposed) is submitted to the Planning Secretary prior to the commencement of each stage, identifying any changes to the proposed staging or applicable conditions.				**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 Planning Secretary no later than one month prior to the commencement of the relevant stages, unless otherwise agreed by the Planning Secretary.				**x**	**x**	**x**	**x**	Compliant	

		Phase of Project							Compliance Status	Comments
PART A. ADMINISTRATIVE CONDITIONS										
		DD	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
Staged Submission of Plans or Programs										
A7.	With the approval of the Planning Secretary, 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 Interpretation Plan required under Condition B1 was approved by DP&E on 11 May 2018. The staged approval of the Construction Heritage Management Plan required under Condition D5(e) was approved by DP&E on 18 September 2018. Other staged submissions of plans/programs will be approved by DP&E as required.
Compliance										
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 Planning Secretary for resolution. The Planning Secretary'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 the project.

PART B. PRE-CONSTRUCTION		Phase of Project							Compliance Tracking Report: Jan 2020 - June 2020	
									Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	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 been undertaken to minimise the heritage impact of the works. Given the nature of the approved bridge project, it is not possible to fully mitigate or eliminate heritage impacts. An Archaeological Investigation Program (historic, maritime and Aboriginal heritage) was undertaken between August and October 2016. The following reports have been prepared to date: - SCMP - Detailed Archival Recording - Archaeological Research Designs - Aboriginal Test Excavation Report - Historical Test Excavation Report - Maritime Test Excavation Report - Interpretation Strategy and Interpretation Plan (Stage 1) - Heritage input to the Urban Design and Landscape Plan (UDLP). The Interpretation Stategy (Stage 2) is currently in development, and due for submission July 2020.
	(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 Investigation Program was undertaken between August and October 2016. A salvage archaeological excavation commenced in late 2017. Further archaeological salvage and monitoring has occoured during construction. An Interpretation Plan (Stage 1) has been prepared and interpretation will be implemented as a part of this project. Stage 2 of the Interpretation Plan is in preparation.
	(c) To conduct archival recording and further research of the Thompson Square Conservation Area;		x	x	x			x	Compliant & Ongoing	A Detailed Archival Recording has been prepared. The SCMP Volume 1 provides a highly detailed, in-depth history of Thompson Square and the study area and a more detailed significance assessment. The Construction Heritage Management Plan has been updated to include requirements for archival recording and interpretation of the existing bridge prior to commencing the removal of the bridge. Approval was received 19 March 2020.
	(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 physical impact on the heritage items identified in Table 1 of Appendix 1, with the exception of the lower parkland areas (Item 3) and Windsor Bridge (Item 20). The visual amenity of the heritage items will be unavoidably impacted upon by the approved bridge project. The height of the new bridge has been lowered as far as technically feasible to reduce visual impact. The southern bridge abutment will be the subject of interpretive masonry treatment to reduce visual impact. These works have commenced. While there will be impacts to the upper parkland area from the new bridge, the WBRP presents the opportunity to reshape and reconfigure the two reserves of Thompson Square, consolidating the upper and lower sections and reinstating the unified nature of Thompson Square's formative years. An Interpretation Plan (Stage 1) has been prepared for the study area, which aims to interpret the history and significance of Thompson Square and Windsor Bridge. Stage 2 of the Interpretation Plan is in preparation, and due for submission July 2020.
	(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 Design Compliance Report prepared under Condition B8.

	PART B. PRE-CONSTRUCTION	Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
Cultural Heritage										
B1.	The Applicant shall submit a Strategic Conservation Management Plan (CMP) to the Planning Secretary 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 Planning Secretary. 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 Management Plan (January 2018) was approved by DP&E on 23 February 2018 which includes the following volumes: - Vol 1: Site ID, Historical and Heritage Status, Rev 4.4 - Vol 2: Physical analysis and Policy, Rev 3.7 - Vol 3: Specific Information Rev 3.5 - Vol 4: Consultation Report (Issue 2, February 2018).
	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 Planning Secretary. 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 (Rev 3 February 2017) was submitted to DP&E for information on 28 March 2017. The Interpretation Plan (Stage 1) (version 10.0, May 2018) was approved by DP&E on 11 May 2018. Stage 2 of the Interpretation Plan is in preparation, and due for submission July 2020.
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 Planning Secretary 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 Archival Recording (Rev 6, 12 February 2018) was approved by DP&E on 16 February 2018.
Archaeology										
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 Planning Secretary 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 Archaeological Research Design and Excavation Methodology (v3, 5 July 2016) was approved by DP&E on 13 July 2016. The Historical and Maritime Archaeological Research Design (4 October 16) was approved by on DP&E 20 June 16.

		Phase of Project							Compliance Status	Comments
PART B. PRE-CONSTRUCTION		**DD**	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
	The Archaeological Investigation Program is to be undertaken by an archaeological heritage consultant approved by the Planning Secretary 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 DP&E as the Heritage consultant to prepare the Archaeological Program on 22 March 2016. Anita Yousif, Matthew Kelly, Graham Wilson were approved by DP&E as the co-excavation Directors on the 11 May 2016, 30 May 2016 and 24 August 2016 respectively.
	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 Planning Secretary, 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 value of each site, and to enhance and preserve the archaeology of historical non-Aboriginal 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 – Historical Archaeology (24 May 2017), the Test Excavation Report – Aboriginal Heritage (version A, 23 May 2017), and the Detailed Salvage Strategy for Aboriginal and Historical Archaeological Heritage (v 2.5, 13 November 2017) were approved by DP&E on 1 December 2017. The Maritime Archaeological Testing Report and Detailed Salvage Strategy for Maritime Archaeological Excavation (version F, March 2018) was approved by DP&E on 23 March 2018. OEH were consulted on the development of all documents.
	(f) preparation of a Hawkesbury Region Sand Bodies Study to the satisfaction of the Planning Secretary 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 Planning Secretary 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.		x						Compliant	Alan Williams was approved by DP&E as the Sand Bodies Expert on 22 March 2016. The Hawkesbury Region Sand Body Study - Research Design and Action Plan (v 4, 16 June 2016) was approved by DP&E on 8 August 2017. The Hawkesbury Region Sand Bodies Study (v 1.4, 1 November 2017) was approved by DP&E on1 December 2017. OEH were consulted on the development of the Sand Bodies Study.

PART B. PRE-CONSTRUCTION		Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
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 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)		x						Compliant	As per Condition B3 Combined documents for B3 & B4
Hydrology										
B5.	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 completed, unless otherwise agreed by the Planning Secretary.			x					Compliant	The Hydrological Mitigation Report (Rev F, 15 November 2017) was submitted to DP&E for information 17 November 2017. No 'at property' mitigation works are required under the Hydrological Mitigation Report.
Urban Design & Landscape Plan										
B6.	Terracing is not approved as part of landscaping for the SSI.	x							Compliant	The detailed design removed the terracing which was proposed at Thompson Square during 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 Landscape Detailed Design Report (September 2017) was submitted to DP&E for information on 13 October 2017. The Urban Design and Landscape Plan Submissions Report (September 2017) was submitted to DP&E for information on 13 October 2017.
Revised Design										
B8.	The project is to be revised to incorporate the following amendments. The new design of the SSI shall be provided to the Planning Secretary 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 1 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 Planning Secretary; (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 Planning Secretary.		x						Compliant	The CoA B8 Design Compliance Report (version 5, 26 April 2018) was approved by DP&E on 25 May 2018. No further design amendments have been required as a consequence of compliance with conditions B1 to B7.

		Phase of Project							Compliance Tracking Report: Jan 2020 - June 2020	
									Compliance Status	Comments
PART C. ENVIRONMENTAL PERFORMANCE		**DD**	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
Heritage Impacts										
C1.	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 prepared in accordance with conditions B1 to B8 have been incorporated into construction management documentation where 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, required under condition B3(f), has been included as Appendix G to the approved Construction Heritage Management Sub-Plan 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 Planning Secretary, and/or the NSW Police Force		**x**	**x**	**x**				Compliant & Ongoing	Procedures for handling human remains are outlined in the approved Construction 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 Procedure – Unexpected Archaeological Finds. Construction works are being undertaken in compliance with the approved Construction Heritage Management Sub-Plan.
C4.	Prior to the commencement of pre-construction works the Applicant shall nominate, for the approval of the Planning Secretary, 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 Planning Secretary 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 Consultant Team was approved by DPIE on 1 May 2018. The key personnel are as follows: ○ Heritage Manager: David Marcus (AAJV) ○ Heritage Consultant Team: - Maritime archaeology: Cosmos Coroneos (Cosmos Archaeology) - Engineering: Bruno Della Palma (Jacobs) - CMP: MacLaren North (AAJV). The Alternative Heritage Manager MacLaren North (AAJV) was approved by DPIE on 6 November 2018.

		Phase of Project							Compliance Status	Comments
PART C. ENVIRONMENTAL PERFORMANCE										
		DD	**BPC**	**PC**	**C**	**PoC**	**O**	**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 Planning Secretary, 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 Planning Secretary. (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**			Compliant & Ongoing	The Aboriginal Heritage, and the Non-Aboriginal Salvage Excavation Reports are to be completed within 12 months of completing works undertaken in accordance with Detailed Salvage Strategy (conditions B3 and B4). The Aboriginal Archaeological Salvage report was submitted 12 May 2020, and approved 21 May 2020.
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 the approved Construction Air Quality Management Sub-Plan: ○ Table 6-1 (various mitigation measures) ○ Section 7.2 (Training) ○ Section 7.3 (Monitoring). Construction works are being undertaken in compliance with the approved Construction Air Quality Management Sub-Plan. A range of measures have been implemented to minimise dust including water carts, covered trucks, spraying polymer or covering soil stockpiles.
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 Table 6-1 (AQ12, AQ13, AQ15) of the approved Construction Air Quality Management Sub-Plan. Construction works are being undertaken in compliance with the approved Construction Air Quality Management Sub-Plan.

	PART C. ENVIRONMENTAL PERFORMANCE	Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
Ancillary Facilities										
C8	Unless otherwise approved by the Planning Secretary, 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. The location of the ancillary facilities shall be identified in the Construction Environment Management Plan.			x	x			x	Compliant & Ongoing	Location of the main ancillary facility has been evaluated against these criteria. As the facility does not meet criteria C8(a), C8(f) and C8 (k), an Ancillary Facility Assessment (AFA) was prepared and submitted to DPIE. The AFA was approved by DPIE on 8 August 2018. The location of the main and minor ancillary facilities are included in Section 2.3 of the CEMP. An addendum to the AFA, for the use of an additional ancillary facility, was approved by DPIE on 10 May 2019. The CEMP has been updated to reflect this inclusion. The Addendum AFA was amended for a small boundary modification, and was approved by DPIE 10 December 2019.
C9	Ancillary sites that do not meet the criteria set out in this consent shall be approved by the Planning Secretary 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) demonstrated overall consistency with the approved project. The Applicant shall demonstrate to the satisfaction of the Planning Secretary that there will be no additional significant adverse impact from that Ancillary Facility's construction or operation.			x	x			x	Complaint	The Ancillary Facility Assessment (AFA) for the main compound site was approved by DPIE on 8 August 2018. An addendum to the AFA, for the use of an additional ancillary facility, was approved by DPIE on 10 May 2019. The Addendum AFA was amended for a small boundary modification, and was approved by DPIE on 10 December 2019.

		Phase of Project							Compliance Status	Comments
PART C. ENVIRONMENTAL PERFORMANCE										
		DD	**BPC**	**PC**	**C**	**PoC**	**O**	**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 & Ongoing	The potential locations for the minor Ancillary Facilities are shown in Section 2.3 of the CEMP. Section 3.7.2 of the CEMP outlines the process of approval by the Environmental Representative for minor Ancillary Facilities.
C11.	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 end of construction. This requirement is noted in Section 4.5 of the Ancillary Facility Assessment (AFA).
Hazards and Risks										
C12.	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 11Oo/o 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 extent of the inconsistency.				**x**			**x**	Complaint	This requirement is provided in Table 6-1 (mitigation measure SW45) of the approved Construction Soil and Water Management Sub-Plan.
Noise 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**	Non-compliant	The construction hours are provided in Table 8-1 (mitigation measure NV2) of the approved Construction Noise and Vibration Management Sub-Plan. Construction works are being undertaken in compliance with the approved Construction Noise and Vibration Management Sub-Plan. Any out of hours works are to be undertaken in accordance with the Out of Hours Works Protocol (Appendix B of the sub-plan). However on 15 and 16 April works were undertaken past 6pm without prior approval.
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 of standard hours are documented in the approved Construction Noise and Vibration Management Sub-Plan: ○ Table 8-1 (mitigation measure NV2) ○ Appendix B: Out of Hours Works Protocol. Any out of hours works are to be undertaken in accordance with the Out of Hours Works Protocol (Appendix B of the sub-plan).

PART C. ENVIRONMENTAL PERFORMANCE		Phase of Project							Compliance Status	Comments
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C15.	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 documented in the approved Construction Noise and Vibration Management Sub-Plan: ○ Table 8-1 (mitigation measure NV4 and NV5) ○ Appendix B: Out of Hours Works Protocol. Construction works are to be undertaken in compliance with the approved Construction Noise and Vibration Management Plan Management Sub-Plan.
C16.	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 NV26) of the Construction Noise and Vibration Management Sub-Plan. It is noted in Section 6.1 that impact piling shall only be used for non-terrestrial piling, bored piling shall be used for terrestrial works. Construction works are being undertaken in compliance with the approved Construction Noise and Vibration Management Plan Management Sub-Plan.
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 have been installed at residential properties, as required by the EIS/Submissions Report. One resident declined the offer.
C18.	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 NV6) of the approved Construction Noise and Vibration Management Sub-Plan. Construction works are being undertaken in compliance with the approved Construction Noise and Vibration Management Plan Management Sub-Plan
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 Noise and Vibration Management Plan.
C20.	Unless otherwise agreed by the Planning Secretary, within 6 months of commencing construction, the Applicant shall, in consultation with the EPA, prepare and submit for the approval of the Planning Secretary, 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 was submitted to the DPIE for approval within 6 months of commencing construction, and was approved 15 August 2019.

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C21.	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 NV9) of the approved Construction Noise and Vibration Management Sub-Plan. It is noted that nearest educational facility is approximately 850m distant and is not anticipated to be impacted by noise or vibration. Educational institutions have been consulted in compliance with the approved 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 of not exceeding the road noise criteria outlined in the NSW Road Noise Policy (DECCW, 2011).
Soil and Water Quality										
C23	Soil and water management measures consistent with Managing Urban Stormwater - Soils and Construction Vol 1 (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 consistent with Managing Urban Stormwater - Soils and Construction Vol 1 (Landcom, 2004) are outlined in the approved Construction Soil and Water Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Soil and Water Management Plan.
C24	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 will be assessed, having regard to the Australian and New Zealand Guidelines for Fresh and Marine 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 Planning Secretary; (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 Planning Secretary for approval 6 months prior to the commencement of construction of the project, or as otherwise agreed by the Director-General. A copy of the Program shall be submitted to the OEH, EPA, DPI (Fishing and Aquaculture) and NOW prior to its implementation.		x	x	x	x	x	x	Compliant	The Water Quality Management Program (WQMP)(Rev 0, June 2017) was approved by DPIE on 2 Aug 17. Water quality monitoring has been undertaken as per the Water Quality Management Program. The annual monitoring report was submitted to DPIE on 27 February 2020 for the period September 2018 - September 2019. The findings of the monitoring report have prompted an update to the Water Quality Monitoring Program. This will be submitted July 2020.

	PART C. ENVIRONMENTAL PERFORMANCE	Phase of Project							Compliance Status	Comments
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C25	Prior to the commencement of site preparation and excavation activities, or as otherwise agreed by the Planning Secretary, 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 Planning Secretary. Note: Terms used in this condition have the same meaning as in the Contaminated Land Management Act 1997.			x	x	x			Compliant	A Stage 2 detailed site investigation was undertaken on 28 May 2012 as part of the EIS and only a low risk of contamination was identified. As such, a site audit report and audit statement was not required under CoA C25.
Hydrology and Flooding										
C26	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 F, 15 November 2017) was submitted to DP&E for information on17 November 2017.
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, 15 November 2017) was submitted to DP&E for information on17 November 2017.
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 Planning Secretary. 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 works are required under the Hydrological 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 Planning Secretary, 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 works are required under Hydrological 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 during the development of the Hydrological Mitigation Report, and were provided a copy of the final report.

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		DD	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
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 SES will be continually informed during a flood event. Mitigation measures (F17 and F39) are provided in Table 5-1 of the Flood Warning and Evacuation Plan (FWEP) to address this requirement. On 9 February 2020, a flood occurred on the Hawkesbury River, where the FWEP was followed.
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 Planning Secretary prior to operation.	**x**				**x**			Compliant	Council and OEH have been consulted regarding the design and location of the flood warning signs. Transport obtained approval from DPIE for the flood warning signs on 15 August 2019.
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 discharges upstream of an existing outlet structure on the northern bank of the river, which means water is not being directly discharged to the Hawkesbury River from the basin. As this is the case, the Guideline is not applicable.
Biodiversity										
C34	A riparian corridor consisting of vegetation from the relevant local native vegetation communities shall be established along the Hawkesbury River bank areas disturbed by the project with the exception of those areas required for scour protection for the safety of the bridge. The riparian corridor is to be consistent with the Controlled Activities on Waterfront Land: Guidelines for Riparian Corridors on Waterfront Land (NSW Office of Water, July 2012).				**x**	**x**			Compliant & Ongoing	Refer Section 3 of the Vegetation Management Plan (Rev 0, June 18) and the Urban Design and Landscape Detailed Design Report (September 2017).
C35	A Vegetation Management Plan (VMP) is to be prepared consistent with the Controlled Activities on Waterfront Land: Guidelines for Vegetation Management Plan on Waterfront Land (NSW Office of Water, July 2012) that demonstrates the protection of remnant native riparian vegetation and the rehabilitation of the riparian corridor. The VMP must be complied with.				**x**	**x**			Compliant & Ongoing	The Vegetation Management Plan (Rev 0, June 18) was submitted to DPIE for information on 4 June 18.
C36	Seed sources used for the rehabilitation of the riparian corridor are to be from local native botanical provenance where possible.				**x**	**x**			Compliant & Ongoing	Seed sources are considered in: ○ Table 6-1 (mitigation measure FF14) in the Construction Flora and Fauna Management Sub-Plan. ○ Section 6 of the Vegetation Management Plan (Rev 0, June 18).
C37	A minimum two year monitoring and maintenance period is required for the riparian zone commencing after final planting, or until such time as a minimum 80 per cent survival rate of each species planted and a maximum 5 per cent weed cover for the treated riparian corridor is achieved. The monitoring program is to include weed control monitoring.					**x**	**x**		Compliant & Ongoing	Refer Section 7.5 of the Flora and Fauna Management Plan and Section 9 and 11 of the Vegetation Management Plan (Rev 0, June 18).
Waste Management										
C38	The Applicant shall maximise the reuse and/or recycling of waste materials generated on site as far as practicable, to minimise the need for treatment or disposal of those materials off site.		**x**	**x**	**x**			**x**	Compliant & Ongoing	Refer Section 5.4 and Table 6.1 (mitigation measure WM7) of the approved Construction Waste Management Sub-Plan. The works are being conducted in compliance with the approved Construction Waste Management Sub-Plan.
C39	All waste materials removed from the site shall only be directed to a waste management facility or premises lawfully permitted to accept the materials.		**x**	**x**	**x**			**x**	Compliant & Ongoing	Refer Section 5.6 and Table 6.1 (mitigation measure WM23) of the Construction Waste Management Sub-Plan. The works are being conducted in compliance with the approved Construction Waste Management Sub-Plan.
C40	All liquid and/or non-liquid waste generated on the site shall be assessed and classified in accordance with Waste Classification Guidelines (Department of Environment, Climate Change and Water, 2009), or any superseding document.		**x**	**x**	**x**			**x**	Compliant & Ongoing	Refer Section 5.3 and Table 6.1 (mitigation measure WM8) of the Construction Waste Management Sub-Plan. The works are being conducted in compliance with the approved Construction Waste Management Sub-Plan.

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PART C. ENVIRONMENTAL PERFORMANCE										
		DD	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
Utilities and Services										
C41	Utilities, services and other infrastructure potentially affected by construction and operation of the SSI shall be identified prior to construction to determine requirements for access to, diversion, protection, and support. Consultation with the relevant owner and/or provider of services that are likely to be affected by the SSI shall be undertaken to make suitable arrangements for access to, diversion, protection, and/or support of the affected infrastructure as required. The cost of any such arrangements shall be borne by the Applicant, or carried out in accordance with existing agreements.			x					Compliant & Ongoing	All relevant utility service providers were consulted during the detailed design process. Utilities relocation has been undertaken and will be an ongoing task during construction.
C42	The cost of repairing any damage to existing utilities or services shall by borne by the Applicant.			x	x			x	Compliant & Ongoing	This condition is noted.
C43	The existing 50mm rising sewer main that is attached to the existing Windsor Bridge that services Hawkesbury City 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	Compliant & Ongoing	This condition has been considered in the detailed design.
Transport and Access										
C44	The SSI shall be designed with the objective of minimising adverse changes to existing access and services for other transport modes and, where feasible, and reasonable facilitate an improved level of access and service to other transport modes compared to the existing situation.	x							Compliant	The new bridge will provide improved access for all transport modes, including but not limited to: an additional lane, greater lane widths, improved approaches and a shared use pathway.
C45	Access to private property shall be maintained during construction unless otherwise agreed with the property owner in advance. A landowner's access that is physically affected by the SSI shall be reinstated to at least meet the relevant Australian standard, in consultation with the property owner.				x			x	Compliant & Ongoing	Access to private property shall be maintained during construction, as outlined in Section 5.5 of the approved Construction Traffic Management Sub-Plan. The works are being conducted in compliance with the approved Traffic Management Sub-Plan.
C46	Any proposed closure of the right turn movement from Bridge Street southbound into George Street shall be sequenced to occur outside business hours (9:00am to 5:00pm Monday to Friday). Hawkesbury City Council shall be provided with a minimum one month notice of any planned closure in writing.				x				Compliant & Ongoing	This closure has been considered during preparation of the Construction Traffic Management Sub-Plan.
Urban Design and Landscaping										
C47	The Urban Design and Landscape Plan referred to in condition B7 must be prepared and implemented and the works approved by that Plan must be completed within 12 months of the commissioning of the project. The Plan shall be prepared in consultation with the OEH, and Hawkesbury Council and shall be consistent with the CMP referred to in condition B1 and include, but not necessarily be limited to: (a) the proposed landscaping of Thompson Square Conservation Area, as shown on the map in Appendix 2 Strategic Conservation Management Plan study area; (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 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:		x		x	x			Compliant & Ongoing	The Urban Design and Landscape Detailed Design Report (September 2017) was submitted to DPIE for information on 13 October 2017. Consultation on the Urban Design and Landscape Plan was undertaken and outcomes of the consultation is provided in the Urban Design and Landscape Plan Submissions Report (September 2017), which was submitted to DPIE for information on 13 October 2017.

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	(i) function (ability to withstand heavy vehicle usage and public setting); (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; (l) 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: <http://council.hawkesburv.nsw.00v.au/masterviewui/modules/documentmaster/qetdocument.aspx?docsetid=3701656>; (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 strategy prior to its finalisation.									As above
C47A	Within 6 months of the date of the Modification 1 approval, or as otherwise agreed by the Planning Secretary, a Windsor Wharf Reserve Landscape Plan must be prepared in consultation with Council and submitted to the Planning Secretary. The plan must as a minimum consider the requirements identified in Condition C47 (as relevant). Within 12 months of commission of the project, the landscaping embellishment work at Windsor Wharf Reserve must have been carried out, unless otherwise agreed by the Planning Secretary.				**x**	**x**			Compliant & Ongoing	The modification was approved 30 April 2020. The Windsor Wharf Reserved Landscape Plan is currently in development in consultation with Council. The Plan is to be submitted October 2020, unless otherwise agreed by the Planning Secretary.
C48	External Lighting shall comply with AS4282: 1997 Control of the Obtrusive Effects of Outdoor Lighting. Upon installation of External Lighting, but before it is finally commissioned, the Applicant shall submit to the Certifying Authority, in consultation with the relevant Council, evidence from an independent qualified practitioner demonstrating compliance in accordance with this condition.				**x**				Compliant & Ongoing	Independent certification will be produced once the street lights are installed by the contractor but prior to commissioning.

	PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	Phase of Project							Compliance Tracking Report: Jan 2020 - June 2020	
									Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
Environmental Management										
D1	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 dilapidation report must: (i) compare 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 Planning Secretary.		x	x		x			Compliant & Ongoing	Pre-construction dilapidation reports have been prepared for the project and submitted to the DPIE for approval where owner consent was obtained.
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 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 testing has been undertaken for the project.
D3	The Applicant shall bear the cost of all repair works to Hawkesbury City Council's property damaged ~~during the course~~ as a result of the construction of the SSI.				x				Compliant & Ongoing	This condition is noted for the project.
Construction 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 including approvals, consultations and agreements required from agencies and key legislation and policies. Evidence of consultation 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 involved in the construction of the project including relevant training and induction provisions for ensuring that 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	The Construction Environmental Management Plan (Rev H, August 2018) was approved by DPIE on 14 Sept 2018. Works are being undertaken in compliance with the approved Construction Environmental Management Plan. The annual review of the CEMP and management plans was undertaken in December 2019. The following mangement plan required changes beyond a "minor amendement" was submitted to DPIE for approval. • CEMP Appendix B3: Construction Noise and Vibration Management Sub Plan. Approval was received 8 April 2020

PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING		Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
	(e) an environmental risk analysis to identify the key environmental performance issues associated with the construction phase 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;									The Construction Heritage Management Plan was updated to include requirements for archival recording and interpretation of the existing bridge prior to commencing the removal of the bridge. Approval was received 19 March 2020. The modification was approved 30 April 2020. The CEMP and sub-plans are to also incorporate the Modification and Submission report.
	(vii) measures to monitor and manage hazard and risks including emergency management; and (viii) the issues identified in condition D7; (f) details of community involvement and complaints handling procedures during construction, consistent with the requirements of conditions D1 1 to D13; (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 Planning Secretary no later than one month prior to the commencement of construction, or within such period otherwise agreed by the Planning Secretary. Construction works shall not commence until written approval has been received from the Planning Secretary.									As above

		Phase of Project							Compliance Status	Comments
PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING										
		DD	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
D5	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, and 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.			**x**	**x**			**x**	Compliant & Ongoing	The Construction Traffic Management Sub Plan (Rev E, Sept 2018) was approved by DPIE on 14 Sept 2018. An updated sub plan was approved by DPIE on 15 March 2019. Works are being undertaken in compliance with the approved Construction Traffic Management Sub-Plan.
	(b) a Construction **Flora and Fauna Management Sub-plan** to detail how construction impacts on ecology will be minimised 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 anticipated to be encountered within the project corridor including re-location, translocation and/or management and protection measures; (v) a procedure for dealing with unexpected EEC/threatened species identified during construction including cessation of work and notification of the OEH, determination of appropriate mitigation measures in consultation with the OEH (including relevant re-location measures); and (vi) mechanism for the monitoring, review and amendment of this sub-plan;			**x**	**x**			**x**	Compliant & Ongoing	The Construction Flora and Fauna Management Sub Plan (Revision 0, August 2018) was approved by DPIE on 14 Sept 2018. Works are being undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.

PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING		Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	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 Planning Secretary 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 dealing with and responding to noise complaints; and (vii) a program for construction noise and vibration monitoring clearly indicating monitoring frequency, location, how the results of this monitoring would be recorded and, procedures to be followed where significant exceedences of relevant noise and vibration goals are detected;			x	x			x	Non-compliant	The Construction Noise and Vibration Management Sub Plan (Revision I, Sept 2018) was approved by DPIE on 19 Sept 2018. An updated plan was approved by DPIE 8 April 2020 Works are being undertaken in compliance with the approved Construction Noise and Vibration Management Sub-Plan, except for when works were undertaken past the approved construction time of 6pm, on two consecutive nights (15 and 16 April 2020).
	(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 sulfate soils, including procedures for the investigation, handling, treatment and management of such soils and water seepage;			x	x			x	Compliant & Ongoing	The Construction Soil and Water Quality Management Sub Plan (Revision 1, Sept 2018) was approved by DPIE on 14 Sept 2018. Works are being undertaken in compliance with the approved Construction Soil and Water Management Sub-Plan.

PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING		Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
	(v) a tannin leachate management protocol to manage the stockpiling of mulch and use of cleared vegetation and mulch filters for 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									As above
	(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 Planning Secretary 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 impacts against the approved impacts of the project, and notification to the Department, and the OEH for 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 consultation and involvement.			x	x			x	Compliant	The Heritage consultant(s) preparing the HMP was approved by DPIE 13 Jul 2018. The Construction Heritage Management Sub Plan (Revision H, Sept 2018) was approved by DPIE on 18 Sept 2018. The plan was updated and approved by DPIE 19 March 2020 Works are being undertaken in compliance with the approved Construction Heritage Management Sub-Plan.

	PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
Reporting										
D6	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 Planning Secretary 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 Planning Secretary 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 Planning Secretary 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 Planning Secretary during construction and operation; and (f) procedures for rectifying any non-compliance identified during environmental auditing, review of compliance or incident management.			x	x	x	x	x	Compliant	The Compliance Tracking Program (rev C, Sept) was approved by DPIE on 20 Sept 2018. The program included a compliance check at least one month prior to the commencement of construction. TfNSW advised the Secretary and Hawkesbury City Council of the commencement of works, in writing prior, to the commencement of construction. This Compliance Report is prepared based on a review of the MCoA and EMM of the SSI for the last 6 months (Jul to Dec 2019). Independent environmental audits will be completed on a bi-annual basis (twice per year) during construction with the last audit scheduled was undertaken in March 2020. Zero (0) non-conformances were identified during the audit. There were three (3) opportunities for improvement identified. The next audit is to be scheduled for September 2020.
D7	The Applicant shall notify the Planning Secretary 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 Planning Secretary 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.		x	x	x	x		x	Compliant & Ongoing	This requirement is outlined Section 2.5 of the approved Compliance Tracking Program and Section 7 of the CEMP. During this reporting period there were no incidents with actual or potential off-site environmental impacts.
D8	The Applicant shall meet the requirements of the Planning Secretary or relevant government agency (as determined by the Planning Secretary) 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 Planning Secretary may require.		x	x	x	x		x	Compliant & Ongoing	This requirement is outlined in the Compliance Tracking Program and Section 7 of the CEMP.

	PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
Auditing										
Operational Noise										
D9	Within 12 months of the commencement of operation of the project, or as otherwise agreed by the Planning Secretary, the Applicant shall undertake operational noise monitoring to compare actual noise performance of the project against noise 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; (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 Planning Secretary and the EPA. The Applicant shall provide the Planning Secretary 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 Planning Secretary.						x		Compliant & Ongoing	Operational noise monitoring will be undertaken within 12 months of the commencement of operation.
Community Information and Involvement										
Provision of Electronic Information										
D10	Prior to the commencement of construction, the Applicant shall establish and maintain a new website, or dedicated pages within an existing website, for the provision of electronic information associated with the project. The Applicant shall, subject to confidentiality, publish and maintain up-to-date information on the website or dedicated pages including, but not necessarily limited to: (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; (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.			x	x			x	Compliant & Ongoing	Project website has been established for the project: rms.nsw.gov.au/windsorbridge TfNSW has and will continue to place all relevant documents onto the project website, as required.
Complaints and Enquiries Procedure										
D11	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 construction and 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	Compliant & Ongoing	A telephone number, the postal address and the email address have been provided for the project and are available on the project website. Enquiries and Complaints Management is outlined in Section 5.2 of the approved Community Communication Strategy required under condition D13. The project telephone number, postal address and email address was published in the local paper prior to construction commencing.

	PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
D12	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 Planning Secretary on request.			x	x			x	Compliant & Ongoing	Construction Complaints Management System has been prepared and implemented for the project. This requirement is outlined in Section 5.2 and Appendix D of the Community Communication Strategy required under condition D13.
Community Involvement										
D13	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; and (e) procedures and mechanisms that would be implemented to resolve issues/ disputes that may arise between parties on the matters relating to environmental management and the delivery of the project. This may include the use of an appropriately qualified and experienced independent 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) heritage matters; (iii) landscaping/urban design 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 Planning Secretary prior to the commencement of construction.			x	x			x	Compliant & Ongoing	The Community Communication Strategy (version 5, Sept 2018) was approved by DP&E on 14 Sept 2018. Regular notifications on project progress were prepared and distributed to the community during this reporting period (January to June 2020). Project notifications were prepared and distributed in advance of each event or activity that significantly impacted, or had the potential to significantly impact, the local community or businesses (e.g. night time works).

	PART D. ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING	Phase of Project							Compliance Status	Comments
		DD	BPC	PC	C	PoC	O	D		
Environmental Representative										
D14	Prior to the commencement of construction, or as otherwise agreed by the Planning Secretary, the Applicant shall nominate for the approval of the Planning Secretary 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 Planning Secretary. 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 Environmental Representative (ER), Toby Hobbs (Vantage Environmental Management Pty Ltd) was approved by DP&E on 6 April 2016. Alternate ER, Cameron Weller (Hutchinson Weller) was approved by DP&E on 26 June 18. Alternate ER, Susannah Price (Vantage) was approved by DPIE on 9 June 2020. The ER has undertaken regular site inspections since the commencement of construction and has prepared monthly reports outlining the relevant information for the month.
Operational Management System										
D15	Prior to the commencement of operation, the Applicant shall incorporate the project into its existing environmental management systems.					x			Compliant & Ongoing	This condition will 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
C	Construction
PoC	Post-construction
O	Operation
D	Demolition

Grey text (compliant)

Black text (compliant and on-going)

Environmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		**Phase of Project**							**Compliance Tracking Report: Jan 2020 - June 2020**	
									Compliance Status	**Comment**
Measure		**DD**	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
HISTORIC HERITAGE										
HH1	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 roundabout has been designed in accordance with the Austroads Guide to Road Design (AGRD).
HH2	Opportunities to relocate above-ground utilities underground will be investigated during detailed design.	x							Compliant	Opportunities to relocate utilities underground were considered during the detailed design process.
HH3	Measures will be undertaken to ensure that the landscape scheme for the Thompson Square parkland area retains its informal character.			x		x			Compliant & Ongoing	The landscape scheme for Thompson Square was considered in the Strategic Conservation Management Plan (SCMP) required under condition B1 and the Urban Design and Landscape Plan prepared for the project under condition B7.
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 dilapidation reports have been prepared for the project and submitted to the DPIE for approval where owner consent was obtained.
HH5	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 training and induction are outlined in the Construction Heritage Management Sub-Plan: ○ Section 8.2 (Training) ○ Appendix A – Heritage Education and Training Package. Heritage training and induction has been undertaken for all new project personnel. The heritage induction has been updated regarding the unexpected finds procedure in response to a heritage related incident.
HH6	All heritage items within the study area will be clearly identified on construction plans to minimise the risk of inadvertent impacts.		x	x	x				Compliant & Ongoing	Heritage items are identified on the Sensitive Area Plans included in Appendix A4 of 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 NV1 and NV2 below.
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 Construction Noise and Vibration Management Sub-Plan.
HH9	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 for noise mitigation have been installed at residential properties, as outlined in the EIS and Submissions Report. One resident declined the offer.
HH10	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 Archaeological Research Design and Excavation Methodology (v 3, 5 July 2016) was approved by DPIE on 13 July 2016 under condition B3. The Historical and Maritime Archaeological Research Design (4 October 16) was approved by DPIE on 20 June 16 under condition B3. The above research design methodologies were prepared in consultation with heritage agency stakeholders.

Environmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		**Phase of Project**							**Compliance Status**	**Comment**
Measure		**DD**	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
HH11	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.							x	Compliant & Ongoing	Archival recording of the bridge was included in the Detailed Photographic Archival Recording report (Rev 6, 12 February 2018) required under condition B2. The approved Construction Heritage Management Sub-Plan was updated with the requirements for the removal of Windsor Bridge, including possible salvage, archival recording and interpretation. The Sub-Plan was approved by DPIE 19 March 2020.
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.			x					Compliant & Ongoing	Consultation with utility providers has been undertaken. Some utilities have been relocated to the existing road cutting to avoid excavation in areas with potential 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 Photographic Archival Recording (DAR) has been undertaken and was approved by DP&E on 16 February 2018, under condition B2. The DAR was undertaken in accordance with the Heritage Council guidelines. The approved Construction Heritage Management Sub-Plan was updated with the requirements for the removal of Windsor Bridge, including possible salvage, archival recording and interpretation. The Sub-Plan was approved by DPIE 19 March 2020.
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 Photographic Archival Recording (DAR) under condition B2 was undertaken in accordance with the Heritage Council guidelines. Consultation with the Heritage Branch, Hawkesbury Museum and Council has commenced regarding the interpretation and preservation of heritage items. This will be outlined in Stage 2 of the Interpretaiton Plan requried under condition B1.
HH15	Archival recording prior to, during demolition and construction of the project and after completion of the project will be undertaken.		x	x	x				Compliant & Ongoing	The Detailed Photographic Archival Recording was approved by on DP&E on 16 February 2018. Further archival recording of the bridge will be undertaken during to demolition.
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	Strategic Conservation Management Plan (SCMP) required under condition B1. Urban Design and Landscape Plan prepared for the project under condition B7.
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.			x					Compliant	Consultation with Hawkesbury City Council, relevant heritage agencies and the community was undertaken during preparation of the Urban Design and Landscape Detailed Design Report (September 2017), required under condition B7. The outcomes of consultation are contained in the Urban Design and Landscape Plan Submissions Report (September 2017).

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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 is outlined in the Urban Design and Landscape Detailed Design Report (September 2017), required under condition B7.
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 Landscape Detailed Design Report (September 2017), required under condition B7. The Vegetation Management Plan (Rev 0, June 18) required under condition C35.
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 Strategy was prepared and submitted to DPIE for information on 28 March 2017. The Interpretation Stategy (Stage 2) is currently in development, and due for submission July 2020.
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 (Stage 1) was approved by DP&E as required under condition B1. The Interpretation Stategy (Stage 2) is currently in development, and due for submission July 2020.
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	Salvage of the existing bridge elements for re-use as public art forms part of the project's approved heritage interpretation strategy. This is currently being considered as part of Stage 2 of the heritage interpretation planning.
MARITIME ARCHAEOLOGY										
MH1	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 excavations have been undertaken. These works were undertaken in accordance with: ○ Historical and Maritime Archaeological Research Design approved by DP&E 20 June 16. ○ Maritime Archaeological Testing Report and Detailed Salvage Strategy for Maritime Archaeological Excavation approved by DP&E 23 March 2018.
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 currently being prepared following completion of the salvage excavations, as required under condition C5. It is due for submission in early 2020.
MH3	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.		x						Compliant & Ongoing	Results of the maritime excavation will be used in on-site interpretation of maritime history which will be outlined in the Interpretation Plan (Stage 2) required under the staged approval of condition B1. The Interpretation Stategy (Stage 2) is currently in development, and due for submission July 2020.
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 the punt landing on the northern side of the river is outside the limit of construction works (including scour protection). Under the Detailed Salvage Strategy the area is subject to the unexpected find procedure if construction was to extend into this area.

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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 & Ongoing	The results of the maritime archaeological monitoring are outlined in the following documents: ○ Test Excavation Report – Historical Archaeology approved by DPIE 1 December 2017. ○ Maritime Archaeological Testing Report and Detailed Salvage Strategy for Maritime Archaeological Excavation approved by DPIE 23 March 2018. These documents have been submitted to OEH. A salvage report is currently being prepared following completion of the salvage excavations, as required under condition C5.
ABORIGINAL HERITAGE										
AH1	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	x				Compliant	The Detailed Salvage Strategy for Aboriginal and Historical Archaeological Heritage prepared under Condition B3 was prepared in consultation with OEH and approved by DPIE on 1 December 2017. This strategy was prepared and is being overseen by the specialist heritage consultants who have been approved under CoA B3 & C4.
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 the cultural materials is yet to be determined. Initial discussions indicate a preference to submit the cultural material to a museum or repository for future care, with the Windsor Museum mentioned. However, final curation of the cultural material will be determined in consultation with the RAPs at the completion of the post-excavation analysis and reporting.
AH3	A written archaeological excavation report will be provided to RMS within a reasonable time following the completion of the archaeological program.		x	x					Compliant & Ongoing	An Archaeological Salvage Excavation report (Aboriginal Heritage) will be prepared following completion of the salvage excavations, as required under condition C5. The Aboriginal Archaeological Salvage report was submitted to DPIE 12 May 2020, and approved 21 May 2020.

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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 Aboriginal cultural heritage salvage program has now been completed. As such, the site is considered to have been cleared of constraints associated with Aboriginal cultural heritage and no additional Aboriginal salvage works are considered required during construction unless further excavation works are to occur outside of the construction buffer zone which is detailed in Figure 16 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	x					Compliant & Ongoing	The Detailed Salvage Strategy (DSS) prepared under Condition B3 outlines the known Aboriginal heritage sites and the area to undergo salvage excavation. Sensitive Area Plans identifying Aboriginal Heritage sites are included in Appendix A4 of the CEMP.
AH6	Registered Aboriginal stakeholders will be provided with the opportunity to assist with the salvage excavation.		x						Compliant	Registered Aboriginal stakeholders assisted in the Aboriginal salvage operations in Area 1.
AH7	Incident reporting procedures for the project will cover incidents involving Aboriginal heritage.		x	x	x			x	Compliant & Ongoing	An Incident Reporting Procedure (CEMP Appendix A6) has been developed for the project and covers incidents involving Aboriginal and non-Aboriginal heritage. There have been no incidents involving Aboriginal Heritage this reporting period.
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			x	Compliant & Ongoing	The approved Construction Heritage Management Sub-Plan outlines the procedure to follow in the event of discovery of human remains during construction works (RMS Standard Management Procedure – Unexpected Archaeological Finds).
AH9	The buffer zone would be reduced to 1m along its entire length (as marked in green on Figure 6-6b) and turned into a solid boundary through the use of temporary fencing to enforce a hard barrier which would not be crossed under any circumstances in order to increase the distance from construction areas to Aboriginal sensitivity;			x	x				Compliant & Ongoing	Temporary fencing has been established to ensure that it is not crossed
AH10	With the exception of shallow excavation (<300mm) no direct impact would be permitted within the buffer zone; and			x	x				Compliant & Ongoing	All excavation in this area has been <300mm
AH11	Indirect impacts must be appropriately managed (e.g. surface protection for heavy vehicles).								Compliant & Ongoing	Heavy vehichles have not crossed this area
TRAFFIC AND TRANSPORT										
T1	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 Management Sub-Plan was approved by DP&E on 14 Sept 2018. An update was approved by DPE on 15 March 2019.

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T2	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 Traffic Control Plans (TCP) are outlined in Section 7 of the approved Construction Traffic Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Traffic Management Sub-Plan.
T3	Traffic control schemes will be inspected regularly and modified if required.		x	x	x				Compliant & Ongoing	This mitigation measure is addressed in Sections 9.3 and 10.1 of the approved Construction Traffic Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Traffic Management Sub-Plan.
T4	Drivers and construction workers will be inducted in the requirements of the traffic management plan.		x	x	x				Compliant & Ongoing	This mitigation measure is addressed in Section 1.4 of the approved Construction Traffic Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Traffic Management Sub-Plan.
T5	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 is addressed in Section 5.1.2 of the approved Construction Traffic Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Traffic Management Sub-Plan.
T6	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 is addressed in Section 5.1.6 of the approved Construction Traffic Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Traffic Management Sub-Plan.
T7	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, as a result of the SSI, will be repaired .			x	x	x			Compliant & Ongoing	Pre-construction road dilapidation reports have been submitted to the DPIE for approval.
T8	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	x				Compliant & Ongoing	This mitigation measure is addressed in Section 9.2 of the approved Construction Traffic Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Traffic Management Sub-Plan.
T9	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 is addressed in Section 5.6 of the approved Construction Traffic Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Traffic Management Sub-Plan.
T10	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	x	x				Compliant & Ongoing	This mitigation measure is addressed in Section 5.8 of the approved Construction Traffic Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Traffic Management Sub-Plan.
T11	Consultation with Maritime operations will be undertaken so that impacts are minimised.		x	x	x			x	Compliant & Ongoing	Consultation with maritime operations has commenced and will continue throughout construction.
T12	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.						x		Compliant & Ongoing	Traffic levels and delays will be monitored during operation.

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VISUAL IMPACT, URBAN DESIGN, AND LANDSCAPING										
V1	· 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.			x					Compliant & Ongoing	The Urban Design and Landscape Detailed Design Report was submitted to DPIE for information on 13 October 2017. The Interpretation Plan (Stage 2) is currently in preparation and will outline interpretation requirements for the project including interpretation on the new bridge abutment. The Interpretation Stategy (Stage 2) is currently in development, and due for submission July 2020.
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 Landscape Detailed Design Report was submitted to DPIE for information on 13 October 2017. The Urban Design and Landscape Plan Submissions Report was submitted to DPIE for information on 13 October 2017. The Urban Design and Landscape Plan was developed in consultation with Hawkesbury City Council.
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.			x					Compliant & Ongoing	The Urban Design and Landscape Detailed Design Report was submitted to DPIE for information on 13 October 2017. The Urban Design and Landscape Plan Submissions Report was submitted to DPIE for information on 13 October 2017. The Urban Design and Landscape Plan was developed in consultation with Hawkesbury City Council.
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 Landscape Detailed Design Report was submitted to DPIE for information on 13 October 2017. The Urban Design and Landscape Plan Submissions Report was submitted to DPIE for information on 13 October 2017. The Urban Design and Landscape Plan was developed in consultation with Hawkesbury City Council.

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V5	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 the consultation during preparation of the Urban Design and Landscape Plan for the project.
V6	Construction facilities will be contained within the construction works zone boundary and occupy the minimum area practicable.				x				Compliant & Ongoing	Construction facilities are contained within the construction works zone boundary and occupy the minimum area practicable.
V7	During construction, suitable barriers will be provided to screen views from adjacent areas.				x				Compliant & Ongoing	Construction screening has been provided where required.
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	x				Compliant & Ongoing	This requirement is addressed in Section 4.5 of the approved Ancillary Facility Assessment. Decommissioning (including any necessary rehabilitation) will be considered for any new site compounds prior to approval of the compound.
V9	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 mitigation measures are provided in the approved Construction Air Quality Management Plan. A range of measures have been implemented to minimise dust including water carts, covered trucks, spraying polymer or covering soil stockpiles.
V10	Footpaths that will be affected by construction activities would be temporarily diverted to maintain suitable alternative access routes for pedestrians.		x	x	x				Compliant & Ongoing	Footpaths will be temporarily diverted if affected by construction activities, as outlined in Section 5.4 of the approved Construction Traffic Management Plan.
V11	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 addressed in the approved Construction Flora and Fauna Management Plan.
V12	Temporary lighting will be screened or diverted to reduce unnecessary light spill.		x	x	x				Compliant & Ongoing	Security lighting has been installed at the main ancillary facility. Lighting is directed away from residential properties to ensure any light spill impact is minimised, as outlined in Section 5.8 of the approved Ancillary Facility Assessment. Any lighting required for night works is considered in the 'Out of Hours Work Protocol' in Appendix B of the Construction Noise and Vibration Management Plan.
V13	Material used for temporary land reclamation will be removed once the works are complete.				x				Compliant & Ongoing	There will be no temporary land reclamation during the project.
V14	Additional tree planting along the parkland edge of Bridge Street should be considered, in consultation with Hawkesbury City Council, if additional visual separation is required between the parkland and the road.				x				Compliant & Ongoing	Considerations will be made to this during the finalisation of the landscaping.
NOISE AND VIBRATION										
NV1	A Construction Noise and Vibration Management Plan (CNVMP) will be prepared and will include general controls such as:								Compliant & Ongoing	The Construction Noise and Vibration Management Sub-Plan was approved by DP&E on 19 Sept 2018. It was updated during the annual review of the CEMP and management plans, resulting in changes that require approval from DPIE. This was submitted, and approval was received 8 April 2020.
	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 approved Construction Noise and Vibration Management Sub-Plan.
	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				Non-compliant	Mitigation measure NV7 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan, except on 15 and 16 April when works were undertaken past 6pm without prior approval.

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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	x				Non-compliant	Mitigation measure NV8 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan, except on 15 and 16 April when works were undertaken past 6pm without prior approval or consultation with the affected receiver.
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	x	x				Compliant	Construction Noise and Vibration Management Sub-Plan: ○ Mitigation measure NV10 ○ Out of Hours work protocol (Appendix B).
Where noisy works are required outside of standard construction hours, negotiated agreements will be sought with affected sensitive receivers.		x	x	x				Non-compliant	Construction Noise and Vibration Management Sub-Plan: ○ Mitigation measure NV10 ○ Out of Hours work protocol (Appendix B). Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan, except on 15 and 16 April when works were undertaken past 6pm without prior approval or consultation with the affected receiver.
Where possible, the use of noisy plant simultaneously and/or close together will be avoided.		x	x	x				Compliant & Ongoing	Mitigation measure NV17 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
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 NV18 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
Equipment will be maintained in efficient working order.		x	x	x				Compliant & Ongoing	Mitigation measure NV19 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
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 NV20 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
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 NV21 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
All noise complaints will be investigated and appropriate mitigation measures implemented where practicable to minimise further impacts.		x	x	x				Compliant & Ongoing	Mitigation measure NV22 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
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 NV23 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.

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	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 dilapidation reports have been prepared for the project and submitted to the DP&E for approval where owner consent was obtained. Mitigation measure NV24 of the approved Construction Noise and Vibration 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 NV25 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
	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 NV27 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
	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 NV28 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
	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 NV30 of the approved Construction Noise and Vibration Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Noise and Vibration Management Sub-Plan.
NV2	Architectural treatments for noise mitigation would be identified by appropriate qualified professional and installed in consultation with property owners.			x	x				Compliant	Architectural treatments were installed by appropriately qualified professionals, who consulted with residents.
SOIL AND WATER										
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	x	x				Compliant & Ongoing	The approved Construction Soil and Water Management Plan contains: ○ Progressive erosion and sediment control (Section 1.3.2) ○ Table 6-1: Mitigation measure SW2 ○ Primary Sediment and Erosion Control Plans (Appendix H). Works have been undertaken in accordance of the approved Construction Soil and Water Management Sub-Plan.
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 Construction Soil and Water Management Plan contains: ○ Table 6-1: Mitigation measure SW9. Works have been undertaken in accordance of the approved Construction Soils and Water Management Sub-Plan.
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 Construction Soil and Water Management Plan contains: ○ Table 6-1: Mitigation measure SW5 ○ Water Quality Management Program (Appendix A). Works have been undertaken in accordance of the approved Construction Soils and Water Management Sub-Plan.

Environmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		**Phase of Project**							**Compliance Status**	**Comment**
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SW4	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 quality controls have been proposed: · An end of pipe net type Gross Pollutant Trap (GPT) connected to the stormwater outlet on the southern side of the Hawkesbury River has been considered in the earlier development of the design for the outlet. However, following extensive consultation with RMS and Hawkesbury Council a "Continuous Deflection Separation type of GPT (Rocla CDS0708) has been proposed in lieu of the net type. · To mitigate the potential impact of spills of hazardous liquids, two lockable shut-off valves (Penstock Valves) have been proposed at main following outlets: - Southern bank outlet: At pit 1.11 just upstream of the outlet. Refer to Drawing No NB98005-ECC-DG-0320 and DG-0322. - Northern bank outlet: At the water quality basin outlet structure; Pit 18.01. Refer to Drawing No NB98005-ECC-DG-0314. · A wet permanent basin with an underflow baffle arrangement has been considered in the earlier development of the design for the on the northern bank to provide accidental spill capture. However, following consultation with TfNSW environmental representatives a biofiltration water quality basin was preferred and therefore has been proposed. As a result, an underflow baffle arrangement is not suitable for a dry 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 SW24 of the approved Construction Soil and Water Management Sub-Plan.
SW6	Debris and rubble will be prevented from entering the river.							**x**	Compliant & Ongoing	Works have been undertaken in accordance with the approved Construction Soils and Water Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Soils and Water Management Sub-Plan.
SW7	Disturbance or turbidity will be contained by installing self-containment equipment such as silt curtains.							**x**	Compliant & Ongoing	Mitigation measure SW9 of the approved Construction Soil and Water Management Sub-Plan. A silt curtain has been used where required
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 Monitoring Program (WQMP) has been prepared and approved under condition C24. Mitigation measures SW41, SW54 of the approved Construction Soil and Water Management Plan. Monitoring has been undertaken in accordance with the approved WQMP. The annual report was completed and submitted to DPIE 27 February 2020 for the period September 2018 - September 2019. The findings of the monitoring report have prompted an update to the Water Quality Monitoring Program. This will be submitted July 2020.
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 SW27 of the approved Construction Soil and Water Management Sub-Plan. Demolition activities will be undertaken in compliance with the approved Construction Soil and Water Management Sub-Plan.
SW10	During excavations, soil and fill material will be visually monitored to identify the potential contaminated material or soils.		x	x	x				Compliant & Ongoing	Mitigation measure CLM2 of the approved Construction Contaminated Land Management Sub-Plan. Works have been undertaken in accordance of the approved Construction Contaminated Land Management Sub-Plan.

Environmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		**Phase of Project**							**Compliance Status**	**Comment**
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SW11	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 CLM3 of the approved Construction Contaminated Land Management Sub-Plan. Unexpected Finds Procedure (Appendix B) Construction Contaminated Land Management Sub-Plan.
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 materials or soils be present on site a Remediation Action Plan will be prepared as outlined in the Unexpected Finds Procedure is provided as Appendix B to the approved Construction Contaminated Land Management Sub-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 Response Management Plan is provided as Appendix B12 to the approved CEMP. Mitigation measures SW8 and SW45, SW46, SW48 of the approved Construction Soil and Water Management Sub-Plan. Works have been undertaken in accordance with the approved Construction Soil and Water Management Sub-Plan.
SW14	Detailed waste management measures and procedures will be included in the CEMP for the project.		x	x	x				Compliant & Ongoing	Detailed waste management measures are outlined in the approved Construction Waste Management Sub-Plan. Works have been undertaken in accordance with the approved Construction Waste Management Sub-Plan.
SW15	Waste management measures will be based upon the philosophy of reduce, reuse, recycle and appropriate disposal.		x	x	x				Compliant & Ongoing	Mitigation measure WM7 and Section 7.3 (Training) of the approved Construction Waste Management Sub-Plan. Works have been undertaken in accordance with the approved Construction Waste Management Sub-Plan.
SW16	The project induction will cover waste management measures in the CEMP.		x	x	x				Compliant & Ongoing	Mitigation measure WM1 and Section 7.3 (Training) of the approved Construction Waste Management Sub-Plan. Works have been undertaken in accordance with the approved Construction Waste 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 WM8 and Section 5.1 (Classification of waste streams) of the approved Construction Waste Management Sub-Plan. Works have been undertaken in accordance with the approved Construction Waste Management Sub-Plan.
SW18	Procurement and waste management strategies will be based upon the philosophy of reduce, reuse, recycle and appropriate disposal.		x	x	x				Compliant & Ongoing	Mitigation measure WM3-WM8 of the approved Construction Waste Management Sub-Plan. Works have been undertaken in accordance with the approved Construction Waste 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	x				Compliant & Ongoing	Section 5.2 of the approved Construction Waste Management Sub-Plan. Works have been undertaken in accordance with the approved Construction Waste Management Sub-Plan.
SW20	Further acid sulfate soils investigations would be undertaken during detailed design of the project.	x							Compliant	Acid sulfate soils investigations were undertaken by Jacobs during detailed design. Refer to the Geotechnical Factual Report - Windsor Bridge Replacement Detailed Design (Jacobs 2017).
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	x				Compliant & Ongoing	A Construction Acid Sulfate Soil Materials Management Sub-Plan has been prepared for the project and approved by DP&E. Works have been undertaken in accordance with the approved Construction Acid Sulfate Soil Materials Sub-Plan.

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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		x	x	Compliant & Ongoing	A Water Quality Monitoring Program for the project was prepared and approved by DP&E under condition C24. The WQMP is to be updated. This will be submitted July 2020. Mitigation measure SW39 of the approved Construction Soil and Water Management Plan. Works have been undertaken in accordance with the approved Construction Soil and Water Management Sub-Plan and the approved WQMP.
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.							x	Compliant & Ongoing	Mitigation measure AQ28 of the approved Construction Air Quality Management Plan. An EWMS for bridge demolition will be prepared prior to demolition of the exiting bridge.
HYDROLOGY										
H1	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 demolition will be prepared prior to demolition of the exiting 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, the time between completion of construction of the replacement bridge and demolition of the existing bridge has been minimised as far 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 Evacuation Plan has been prepared for the project which outlines when construction infrastructure will be removed from the river channel 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	x				Compliant & Ongoing	A Flood Warning and Evacuation Plan has been prepared for the project. For incident response to pollution incidents (including spills) the Pollution Incident Response Plan (Appendix B12 of the CEMP) has been prepared.
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	x				N/A	Strikethrough text reflects changes made under the submissions report and PIR
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.			x					Compliant	Strikethrough text reflects changes made under the submissions report and PIR. A Hydrological Mitigation Report has been prepared under condition B5 during detailed design. No 'at property' mitigation works are required under this report.

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H7	Suitable scour protection would be provided to protect the bridge abutments, piers and banks during construction and operation.				x				Compliant & Ongoing	Suitable scour protection has been provided, as outlined in the Volume 9 Scour Protection of the detailed design. The placement of scour protection at the bridge abutments was near completed during this reporting period, with the remaining area to be completed once the existing bridge is removed.
LANDUSE, PROPERTY AND SOCIOECONOMIC										
SE1	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			x	Compliant & Ongoing	Early and ongoing consultation/communication has been undertaken with residents and local business during the before pre-construction, pre-construction and construction activities. This will continue during the construction phase and demolition works. The requirements for consultation and communication with stakeholders is outlined in the Section 3.4, Section 4 and Appendix B of the approved Community Communication Strategy (CCS) required under condition D13. Consultation has been undertaken in compliance with the approved CSS.
SE2	Affected local business owners will be consulted prior to construction to identify appropriate measures to manage potential impacts.		x	x	x			x	Compliant & Ongoing	Consultation/communication has been undertaken with local business. The requirements for consultation and communication with stakeholders is outlined in the Section 3.4, Section 4 and Appendix B of the approved Community Communication Strategy (CCS) required under condition D13. Consultation has been undertaken in compliance with the approved CSS.
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			x	Compliant & Ongoing	Consultation/communication has been undertaken with the Hawkesbury Paddle Wheeler regarding temporary access changes to Windsor Wharf. This consultation will continue throughout construction. As a result, the Project has facilitated the temporary relocation of the paddlewheeler to a nearby Council jetty, to improve accessibilty and safety of its patrons. The requirements for consultation and communication with stakeholders is outlined in the Section 3.4, Section 4 and Appendix B of the approved Community Communication Strategy (CCS) required under condition D13. Consultation has been undertaken in compliance with the approved CSS.
SE4	Public access will be maintained to key areas of the Hawkesbury River during existing planned events.			x					Compliant & Ongoing	Public access to key areas of the Hawkesbury River has been maintained during 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 been undertaken in accordance with the Land Acquisition Act 1991.
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 and visually sensitive screening has been installed wherever possible to reduce visual impacts of construction on the town centre and 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 tourist attractions have been maintained during construction as outlined in Chapter 5 of the approved Construction Traffic Management Plan.

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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 & Ongoing	During the detail design the supply of materials, plant and subcontractors was considered. Materials, plant and subcontractors are sourced locally or in adjacent regions where possible.
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 construction will be reinstated and restored as soon as practicable.
FLORA AND FAUNA										
FF1	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 outlined in Chapter 5 of the approved CEMP. Details on the flora and fauna component of the site induction is outlined in Section 7.2 of the approved Construction Flora and Fauna Management Sub-Plan. Project inductions have occoured for all new personnel onsite.
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 of the approved Construction Flora and Fauna Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
FF3	Clearing limits will be accurately and clearly marked including trees/vegetation to be retained including riparian zones.			x					Compliant & Ongoing	Mitigation measure FF3 of the approved Construction Flora and Fauna Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
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.			x					Compliant & Ongoing	Detailed in the approved Construction Flora and Fauna Management Sub-Plan: - Mitigation measure FF4 (Table 6-1) - Pre-Clearing Survey (Appendix G) - Pre-clearing Checklist (Appendix A). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
	· 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.			x					Compliant & Ongoing	During the Pre-clearance Survey, no nests were observed in this area and it is unlikely that any nests are present due to high noise and vibration disturbance from heavy traffic across the bridge. An additional preclearing survey of Windsor Bridge will be undertaken to check for fauna and nests prior to bridge removal works. This is required by mitigation measure FF4 of the approved Construction Flora and Fauna Management Sub-Plan
	· 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.			x					Compliant & Ongoing	A Bat Management Plan will be prepared to mitigate potential impacts to bats roosting in the existing bridge, in the event they are identified in the ecologist survey prior to demolition. As required by mitigation measure FF4 of the approved Construction Flora and Fauna Management Sub-Plan.
	· 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.			x					Compliant & Ongoing	Detailed in the approved Construction Flora and Fauna Management Sub-Plan: - Mitigation measure FF5 (Table 6-1) - Fauna Handling and Rescue Procedure (Appendix C). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.

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	· 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.			x					Compliant & Ongoing	Detailed in the approved Construction Flora and Fauna Management Sub-Plan: - Mitigation measure FF5 (Table 6-1) - Pre-clearing Checklist (Appendix A). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
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 measures SW1, SW2 and SW3 of the approved Construction Soil and Water Management Sub-Plan.
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.			x					Compliant & Ongoing	Detailed in the approved Construction Flora and Fauna Management Sub-Plan: - Mitigation measure FF6 (Table 6-1) - Section 6.1 of the Construction Flora and Fauna Management Plan - Clearing and Grubbing Plan (Appendix F). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
	· All works near riparian zones will have adequate sediment and erosion control.			x					Compliant & Ongoing	Mitigation measure FF6 of the approved Construction Flora and Fauna Management Sub-Plan. Progressive Erosion and Sediment Control Plans have been (and will continue to be) developed throughout construction.
FF7	· Establish a noxious weed management protocol.			x					Compliant & Ongoing	Detailed in the approved Construction Flora and Fauna Management Sub-Plan: - Noxious Weed Management Protocol (Appendix E) - Vegetation Management Plan (CEMP Appendix B11). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
	· All noxious weeds which are cleared as part of the project will be disposed of appropriately.			x					Compliant & Ongoing	Detailed in: - Approved Construction Flora and Fauna Management Sub-Plan (Mitigation measure FF10) - Noxious Weed Management Protocol (Appendix E) - Vegetation Management Plan (CEMP Appendix B11). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
	· Inspection/maintenance procedures will be implemented to reduce the carriage of weed material on machinery.			x					Compliant & Ongoing	Detailed in: - Approved Construction Flora and Fauna Management Sub-Plan (Mitigation measure FF10) - Noxious Weed Management Protocol (Appendix E) - Vegetation Management Plan (CEMP Appendix B11). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
FF8	· A monitoring program (including a weekly checklist) will be developed to check that all proposed impact mitigation measures have been effectively implemented.			x					Compliant & Ongoing	Detailed in the approved Construction Flora and Fauna Management Sub-Plan: - Mitigation measure FF11 (Table 6-1) - Section 7 of the approved Construction Flora and Fauna Management Plan Vegetation Management Plan (CEMP Appendix B11). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.

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	· In the event that impact mitigation measures do not perform effectively, the management program will be adjusted with further appropriate measures.			x					Compliant & Ongoing	Detailed in the approved Construction Flora and Fauna Management Sub-Plan: - Mitigation measure FF11 (Table 6-1) - Review and Improvement (Section 8). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
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 or logs were identified during the pre-clearing survey; however, it was noted in the pre-clearance survey that potential habitat may exist for bird and bat species amongst the girders and pylons underneath the existing 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 approved Construction Flora and Fauna Management Sub-Plan: - Mitigation measure FF5 (Table 6-1) -Clearing and Grubbing Plan (Appendix F). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
FF10	· In-stream and riparian disturbance will be minimised during construction through clearly delineated working areas.			x					Compliant & Ongoing	Mitigation measure FF7 of the approved Construction Flora and Fauna Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
	· 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 of the approved Construction Flora and Fauna Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
FF11	· 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 of the approved Construction Flora and Fauna Management Sub-Plan. Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
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 of the approved Construction Flora and Fauna Management Sub-Plan. Vegetation Management Plan (CEMP Appendix B11). Works have been undertaken in compliance with the approved Construction Flora and Fauna Management Sub-Plan.
	· Where possible riparian zone rehabilitation will include appropriate native species.			x					Compliant & Ongoing	Vegetation Management Plan (CEMP Appendix B11) Windsor Bridge Replacement 100% Landscape Design Drawings. Works have been undertaken in compliance with the Vegetation Management Plan.
FF13	The proposed batter located between the proposed road alignment and the Araucaria cunninghamii tree will be undertaken via one of the following methods, unless otherwise approved by TfNSW: - Option 1: All proposed work is located at least three metres from the subject tree (measured from the edge of the trunk). This option would not require further root investigation or assessment by the project arborist. The design of the modification has adjusted the batters to reduce the extent of excavation in the vicinity of the tree; or - Option 2: The proposed work falls within three metres of the subject tree (measured from the edge of the trunk). This option would require further root investigation (by nondestructive methods) under supervision of the project arborist. Any proposed excavations that fall within 2.5 metres of the tree are not recommended and are likely to cause impacts that cannot be mitigated through the use of tree protection measures and/or tree sensitive construction techniques;			x	x				Compliant & Ongoing	Boundary flagging has been installed around the tree to ensure that all work and all construction vehicles remains at least 3m away from the Araucaria cunninghamii tree

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FF14	Ensure the overhanging canopy of the Araucaria cunninghamii tree is protected and retained as its shape is important for its aesthetic appearance.			x	x				Compliant & Ongoing	Boundary flagging has been installed around the tree to ensure that the overhanging canopy of the Araucaria cunninghamii tree is protected
AIR QUALITY										
AQ1	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	x	x				Compliant & Ongoing	These management measure is included in Table 6-1 of the approved Construction Air Quality Management Plan. Works have been undertaken in compliance with the approved Construction Air Quality Management Plan. A range of measures have been implemented to minimise dust including water carts, covered trucks, spraying polymer or covering soil stockpiles.
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.							x	Compliant & Ongoing	This management measure is included in the approved Construction Air Quality Management Plan as mitigation measure AQ28. Demolition works will be undertaken in accordance with the relevant Australian Standards.
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.							x	Compliant & Ongoing	An EWMS for bridge demolition will be prepared prior to demolition of the exiting 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.							x	Compliant & Ongoing	An EWMS for bridge demolition will be prepared prior to demolition of the exiting bridge.

Environmental Management Measures from the Environmental Impact Statement (EIS) and Submissions Report		**Phase of Project**							**Compliance Status**	**Comment**
Measure		**DD**	**BPC**	**PC**	**C**	**PoC**	**O**	**D**		
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.				x				Compliant & Ongoing	Mitigation measure CLM7 in the approved Construction Contaminated Land Management Plan. Asbestos has been found during construction. Works ceased in the area and an asbestos assessment was conducted by a suitably qualified environmental consultant and appropriate management actions were undertaken.
CLIMATE CHANGE										
CC1	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 inundation of properties were considered during detailed design: - Southern River Bank Stability and Scour Protection - Detailed Design Report. - Hydrological Mitigation Report has been prepared under condition B5.
GREENHOUSE GASES										
GHG1	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.				x				Compliant & Ongoing	Mitigation measure WM35 of the approved Construction Waste Management Sub-Plan. Works have been undertaken in compliance with the approved Waste Management Sub-Plan.
GHG2	Fuel efficient plant and equipment will be selected, where practicable.				x				Compliant & Ongoing	Mitigation measure WM36 of the approved Construction Waste Management Sub-Plan. Works have been undertaken in compliance with the approved Waste Management Sub-Plan.
GHG3	Biofuels will be used where practicable.				x				Compliant & Ongoing	Mitigation measure WM37 of the approved Construction Waste Management Sub-Plan. Works have been undertaken in compliance with the approved Waste Management Sub-Plan.
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 WM38 of the approved Construction Waste Management Sub-Plan. Works have been undertaken in compliance with the approved Waste Management 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					x		Compliant & Ongoing	The use of energy efficient and other energy efficient lighting was addressed in the detailed design.