

Project Name: WestConnex New M5

Project number:	15.7020.2597
Document number:	M5N-ES-RPT-PWD-0010
Revision date:	04/03/2020
Revision:	04

#### **Document Approval**

Rev.	Date	Prepared by	Reviewed by	Recommended by	Approved by	Remarks
00	24/06/16	CDS-JV				
01	26/07/16	CDS-JV				
02	21/11/16	CDS-JV				
03	22/12/16	CDS-JV				
04	04/03/20	CDS-JV				
Signat	ure:					



#### **Details of Revision Amendments**

#### **Document Control**

The Project Director is responsible for ensuring that this Report is reviewed and approved. The Support Services Director (SSD) is responsible for updating this Report to reflect changes to the Project, legal and other requirements, as required.

#### Amendments

Any revisions or amendments must be approved by the Project Director before being distributed or implemented.

Revision	Details
00	Prepared for submission to DP&E
01	Updated to include HV Power works and revised staging dates
02	Updated to address timing of Local Roads works and tunnelling works
03	Update prior to commencement of Stage 4 (Local Roads) construction activities.
04	Update prior to Local Roads Intersection Amendment (LRIA) works

#### **Revision Details**



#### Contents

1.	Introduction	. 4
1.1	Project description	4
1.2	Purpose	5
1.3	Details of proposed staging and work activities	5
Арр	endix A: Minister's Conditions of Approval Staging	12

#### 1. Introduction

#### 1.1 Project description

WestConnex is Australia's largest road project, linking Sydney's west and south-west with the city, airport and port in a 33 kilometre continuous motorway. It will facilitate economic growth and urban revitalisation by providing new opportunities for residential and commercial development.

The WestConnex Project is being delivered in three stages:

- WestConnex Stage 1: M4 Parramatta to Haberfield (the "M4 East")
- WestConnex Stage 2: M5 Beverly Hills to St Peters ("the New M5"), and
- WestConnex Stage 3: M4-M5 Link Haberfield to St Peters ("Stage 3").

The New M5 Project (New M5, the project) is designated as State Significant Infrastructure (SSI 6788) and is the Stage 2 component of the WestConnex scheme. The proponent for the project is Roads and Maritime Services (RMS) and the project company (WCX M5 AT). WCX M5 AT has engaged the CPB Samsung Dragados Joint Venture (CDS-JV) to deliver the design and construction of the project. The project was approved by the Minister for Planning on 20 April 2016, subject to conditions.

The Project will run from the existing M5 East corridor at Beverly Hills via tunnel to St Peters, providing improved access to the airport, south Sydney and Port Botany precincts. The Project will substantially improve the east - west corridor access between the Sydney CBD, Port Botany and Sydney Airport precincts and the South West growth areas.

The project comprises the following key features:

- Twin motorway tunnels between the existing M5 East Motorway (between King Georges Road and Bexley Road) and St Peters. Each tunnel would be around nine kilometres in length and would be configured as follows:
  - Between the western portals and Arncliffe, the tunnels would be built to be three lanes wide but marked for two lanes as part of the project. Any change from two lanes to three lanes would be subject to future environmental assessment and approval
  - Between Arncliffe and St Peters, the tunnels would be built to be five lanes wide but marked for two lanes as part of the project. Any change from two lanes to any of three, four or five lanes would be subject to future environmental assessment and approval
- Tunnel stubs to allow for a future connection to the M4-M5 Link and a future connection to southern Sydney via a future Southern extension
- Surface road widening works along the M5 East Motorway between east of King Georges Road and the new tunnel portals
- A new road interchange at St Peters, which would initially provide road connections from the main alignment tunnels to Campbell Road and Euston Road, St Peters
- Two new road bridges across Alexandra Canal which would connect St Peters interchange with Gardeners Road and Bourke Road, Mascot
- Closure and remediation of the Alexandria Landfill site, to enable the construction and operation of the new St Peters interchange
- Works to enhance and upgrade local roads near the St Peters interchange
- Ancillary infrastructure and operational facilities for electronic tolling, signage (including electronic signage), ventilation structures and systems, fire and life safety systems, and emergency evacuation and smoke extraction infrastructure
- A motorway control centre that would include operation and maintenance facilities
- New service utilities and modifications to existing service utilities
- Temporary construction facilities and temporary works to facilitate the construction of the project
- Infrastructure to introduce tolling on the existing M5 East Motorway

Surface road upgrade works within the corridor of the M5 East Motorway.



#### 1.2 Purpose

The purpose of this Staging Report is to satisfy Minister's Condition of Approval (CoA) A10, which requires a Staging Report to be submitted prior to the commencement of each proposed stage.

In accordance with Condition A10, this Staging Report provides details of:

- a) how the SSI would be staged, including general details of work activities associated with each stage and the general timing of when each stage would commence; and
- b) details of the relevant conditions of approval, which would apply to each stage and how these will be complied with across and between the stages of the SSI.

#### 1.3 Details of proposed staging and work activities

Roads and Maritime Services (the Proponent), Sydney Motorway Corporation (WCX M5 AT, which is delivering the project) and CPB Dragados Samsung Joint Venture (CDS-JV) has elected to divide the Project into four stages:

- Stage 1, which commenced in July 2016, in accordance with the approved Ancillary Facilities Management Plan (AFMP; M5N-ES-PLN-PWD-0026). Stage 1 is further broken down to:
  - a) Stage 1a which includes establishment of the Kingsgrove construction compounds (C1, C2 and C3),
  - b) Stage 1b which includes establishment of construction compounds C4 C11, and
  - c) Stage 1c which includes provision of high voltage (HV) power supply to construction compounds.
- 2) Stage 2, which commenced August 2016, in accordance with the approved Construction Environmental Management Plan (CEMP; M5N-ES-PLN-PWD-0001) and all associated sub-plans, and will continue until completion of the design and construction phase of the project, which is expected in December 2019. Stage 2 is further broken down to:
  - a) Stage 2(a) which includes surface construction activities in the Kingsgrove construction sites and commenced September 2016;
  - b) Stage 2(b) which includes surface construction activities in the Bexley construction sites and commenced August 2016;
  - c) Stage 2(c) which includes surface construction activities at the Arncliffe construction sites and commenced August 2016;
  - d) Stage 2(d) which includes surface construction activities at the St Peters Interchange (SPI) construction sites and commenced September 2016;
- 3) Stage 3, which commenced November 2016, subsequent to approval of the necessary documentation under the CoA and will also continue until completion of the design and construction phase of the project;
- 4) Stage 4, for which construction activities are expected to commence January 2017, subsequent to approval of the necessary documentation under the CoA and is to include all surface construction activities at the local road upgrade sites. Stage 4 is further broken down to:
  - a) Stage 4(a) which includes establishment of temporary construction compounds for the local roads upgrades (ie compounds C12-C13);
  - b) Stage 4(b) which includes temporary construction activities at the local roads construction compounds and sites;
  - c) Stage 4(c) which includes permanent construction activities and rehabilitation activities at the Euston Road, Bourke Road, Gardeners Road and bridge construction sites, as well as permanent non-drainage works at Campbell Street and Campbell Road construction sites;



- d) Stage 4(d) which includes permanent drainage works and rehabilitation activities at Campbell Street and Campbell Road construction sites, as well as demobilisation at all the local road upgrade sites;
- e) Stage 4(e) includes the Local Roads Intersection Amendment (LRIA) works. This includes permanent utilities relocation works, drainage works, pavement works, and rehabilitation works for additional local road upgrades at Campbell Road, Bourke Road and Gardeners Road sites as well as site demobilisation works.

Details of the construction activities associated with each stage are outlined below (Table 1), along with indicative timing for these activities. In summary, Stage 1 will include demolition and site establishment, as defined under the SSI approval, Stage 2 will include the commencement of surface construction activities at the Kingsgrove, Bexley, Arncliffe and SPI construction compounds and construction sites, Stage 3 will include the commencement of tunnelling activities including roadheader excavation, tunnel fit-out and commissioning activities, and Stage 4 will include the commencement of surface construction activities at the Local Road Upgrade construction compounds and construction sites. Actual timing for each stage will depend on the approvals required for each stage as outlined above and in Appendix A.



#### Table 1: Stages for establishment and construction activities and indicative timing

Item	Area and Activity	Duration	Applicable S	Stage		
number			1	2	3	4
			June 2016	August 2016	November 2016	November 2016
Pre-estab	lishment					
0	Pre-establishment activities at Arncliffe Construction Compound (C7) including installation of frog fencing and environmental controls, frog survey, capture and translocation.	July 2016	$\checkmark$			
Stage 1(a	)			_		
1(a)i	Establishment of the Kingsgrove construction compounds (C1, C2 and C3) including: demolition, vegetation clearing, installation of access and realignment of existing pedestrian and bicycle path, installation of services, fencing and temporary noise barrier on northern boundary, installation of site offices and facilities, installation of environmental and traffic controls.	July to December 2016	~	~		
Stage 1(b	)			_		
1(b)i	Establishment of Bexley construction compounds (C4-C6), including: demolition, vegetation clearing, installation of access and realignment of existing pedestrian and bicycle path, installation of services, fencing and temporary noise barriers, installation of site offices, car parking area and other facilities, installation of environmental and traffic controls.	July to September 2016	~	~		
1(b)ii	Establishment of Arncliffe construction compound (C7), including: dewatering and backfilling of ponds, vegetation clearing, site leveling and installation of access, installation of services, fencing and temporary noise barriers, installation of site offices, car parking area and other facilities, installation of environmental and traffic controls.	July to November 2016	~	~		



Item	Area and Activity	Duration	Applicable St	age		
number			1	2	3	4
			June 2016	August 2016	November 2016	November 2016
1(b)iii	Establishment of St Peters Interchange construction compounds (C8- C11), including: demolition, vegetation clearing, installation of access, installation of services, fencing and temporary noise barriers, installation of carparking, site offices and facilities, installation of environmental and traffic controls.	July 2016 to January 2017	✓	✓		
Stage 1(c)		·				
1(c)i	Provision of HV power to construction compounds C4 including protection and/or relocation of existing services, trenching, pipe-jacking, horizontal directional drilling, cable-pulling, backfilling of trenches, temporary stockpiling and reinstatement/rehabilitation of pavements and surfaces.	July 2016 to November 2016	✓	✓		
1(c)ii	Provision of HV power to construction compounds C3, C4, C7 and C8 including protection and/or relocation of existing services, trenching, pipe-jacking, horizontal directional drilling, cable-pulling, backfilling of trenches, temporary stockpiling and reinstatement/rehabilitation of pavements and surfaces.	July 2016 to November 2016	✓	~		
1(c)iii	Provision of HV power to construction compounds C3, C4, C7 and C8 including protection and/or relocation of existing services, trenching, pipe-jacking, horizontal directional drilling, cable-pulling, backfilling of trenches, temporary stockpiling and reinstatement/rehabilitation of pavements and surfaces.	July 2016 to November 2016	✓	~		
1(c)iv	Provision of HV power to construction compounds C3, C4, C7 and C8 including protection and/or relocation of existing services, trenching, pipe-jacking, horizontal directional drilling, cable-pulling, backfilling of trenches, temporary stockpiling and reinstatement/rehabilitation of pavements and surfaces.	September 2016 to November 2016	✓	~		



2(a)i	Area and Activity	Duration	Applicable S	itage		
number			1	2	3	4
			June 2016	August 2016	November 2016	November 2016
Stage 2(a)	Kingsgrove construction – surface works				•	
2(a)i	Temporary surface construction works at Kingsgrove construction sites (including construction compounds C1-C3)	August 2016 to December 2016		✓		
2(a)ii	Permanent surface construction and rehabilitation works at Kingsgrove construction sites	September 2016 to June 2019		~		
2(a)iii	Site demobilisation works at Kingsgrove construction sites	October 2017 to December 2019		✓		
Stage 2(b)	Bexley construction – surface works	·		·		
2(b)i	Temporary surface construction works at the Bexley construction sites (including compounds C4-C6)	August to September 2016		~		
2(b)ii	Permanent surface construction and rehabilitation works at Bexley construction sites	August 2016 to February 2019		✓		
2(b)iii	Site demobilisation works at Bexley construction sites	March 2018 to December 2019		~		
Stage 2(c)	Arncliffe Construction – surface works		l			
2(c)i	Temporary surface construction works at the Arncliffe construction site (compound C7)	August to November 2016		✓		
2(c)ii	Permanent surface construction and rehabilitation works at the Arncliffe construction site (compound C7)	August 2016 to May 2019		~		
2(c)iii	Site demobilisation works at the Arncliffe construction site (compound C7)	January 2018 to December 2019		~		



2(d)i 2(d)ii 2(d)iii	Area and Activity	Duration	Applicable S	itage		
number			1	2	3	4
			June 2016	AugustNovembe20162016		November 2016
Stage 2(d)	St Peters Interchange construction – surface works					
2(d)i	Temporary surface construction works at the SPI construction sites (including compounds C8-C11)	September 2016 to January 2017		$\checkmark$		
2(d)ii	Permanent surface construction and rehabilitation works at the SPI construction sites	August 2016 to June 2019		~		
2(d)iii	Site demobilisation works at the SPI construction sites	August to December 2019		$\checkmark$		
Stage 3 Tu	unnelling					
3	Tunnelling works including excavation using roadheaders, tunnel fit-out and commissioning works.	November 2016 to December 2019			~	
Stage 4 Lo	ocal Roads Upgrades					-
4(a)	Establishment of construction compounds and temporary construction works for the local roads upgrade works (including compounds C12-C13)	November 2016 to May 2017				~
4(b)	Temporary construction works for the local roads upgrade works (including compounds C12-C13)	December 2016 to December 2019				~
4(c)	Permanent construction and rehabilitation works for the local road upgrades at Euston Road, Bourke Road, Gardeners Road and bridge sites. Permanent non-drainage works at Campbell Street and Campbell Road sites.	February 2017 to August 2019				~
4(d)	Permanent drainage works and rehabilitation works for the local road upgrades at Campbell Street and Campbell Road sites as well as site demobilisation works at all local road upgrade sites.	March 2017 to December 2019				✓



Item	Area and Activity	Duration	Applicable Stage						
number			1	2	3	4			
			June 2016	August 2016	November 2016	November 2016			
4(e)	Permanent utilities relocation works, drainage works, pavement works, and rehabilitation works for additional local road upgrades at Campbell Road, Bourke Road and Gardeners Road sites as well as site demobilisation works	May 2020 to December 2020				~			

Appendix A: Minister's Conditions of Approval Staging

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
A1		In addition to meeting the specific performance criteria established under this approval, the Proponent must implement all feasible and reasonable measures to prevent and/or minimise any harm to the environment that may result from the construction or operation of the SSI.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	WCX M5 AT CDS-JV RMS	Specific performance criteria incorporated into the Project Environmental Management compliance with the CEMP a throughout construction and
A2		The Proponent must carry out the SSI in accordance with the conditions of approval and generally in accordance with the:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	Ν	WCX M5 AT CDS-JV RMS	The CEMP and associated su required to undertake the pr The Compliance Tracking Pro
A2	(a)	State significant infrastructure application (SSI 6788);												compliance shall be monitor Compliance details are provi
A2	(b)	New M5 Environmental Impact Statement - Volumes 1A, 1B, 1C, 2A, 2B, 2C, 2D, 2E, 2F, 2G and 2H prepared by AECOM Australia, dated November 2015;												Reports. In accordance with Quarterly Compliance Repor submitted to DP&E to provic Compliance with this conditi
A2	(c)	New M5 Submissions Report - Volumes 1A, 1B and 2 prepared by AECOM Australia, dated March 2016;												
A2	(d)	WestConnex New M5 Addendum to the Submissions and Preferred Infrastructure Report - Temporary Construction Power Enabling Works prepared by RMS, dated April 2016;and												
A2	(e)	Supplementary material provided as an addendum to the New M5 Submissions and Preferred Infrastructure Report.												
A3		In the event of an inconsistency between:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	WCX M5 AT CDS-JV RMS	Noted and shall be impleme with this condition is ongoin Inconsistencies will be identi
A3	(a)	the conditions of this approval and any document listed in condition A2 inclusive, the conditions of this approval will prevail to the extent of the inconsistency; and												Compliance Reports.
A3	(b)	any document listed in condition A2(a) to A2(e) inclusive, the most recent document will prevail to the extent of the inconsistency.												
A4		The Proponent must comply with any reasonable requirement(s) of the Secretary arising from the Department's assessment of:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	Ν	WCX M5 AT CDS-JV RMS	Noted and shall be implement with this condition is ongoin CDS-JV will incorporate any r
A4	(a)	any reports, plans or correspondence that are submitted in accordance with this approval; and												project documentation and s
A4	(b)	the implementation of any actions or measures contained in these reports, plans or correspondence.												
A5		This approval will lapse five years after the date on which it is granted, unless the works of this SSI approval are physically commenced on or before that date.	Y	N	Ν	N	N	N	N	N	Commence works covered by approval	N	CDS-JV	Noted. Establishment works for the Construction works commen
A6		Where requested by the Secretary, the Proponent must provide evidence as to how feasible and reasonable measures were considered and taken into account.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	CDS-JV	Noted and shall be implement with this condition is ongoin
A6		Note: Community expectations must be taken into account but it is not expected that specific community consultation will be required in every instance.												





DRAGADOS



eria and reasonable and feasible measures have been ject's system documentation including the Construction ent Plan (M5N-EN-PLN-PWD-0001; CEMP). Ongoing IP and other associated documents shall be tracked and operation (where applicable).

sub plans include the relevant management measures e project in accordance with the requirements of CoA A2(a-e). Program (CTP) is the document that is used to describe how tored and tracked.

ovided in the Pre- and Quarterly Construction Compliance ith the requirements of condition A14, subsequent ongoing ports and a Pre-Operational Compliance Report will be ovide regular updates on compliance for the project. dition is ongoing throughout the New M5 project works.

nented throughout construction of the project. Compliance bing throughout the New M5 project works. Entified in the CTP and reported quarterly in Construction

mented throughout construction of the project. Compliance oing throughout the New M5 project works. ny reasonable requirements from the Secretary in relation to nd systems.

he project commenced in July 2016. nenced in August 2016.

nented throughout construction of the project. Compliance bing throughout the New M5 project works.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
Α7		This approval does not apply to the establishment of ancillary facilities where establishment has been assessed in accordance with any applicable requirements of the Environmental Planning and Assessment Act 1979 and site establishment works commenced prior to commencement of construction.	Y	Y	Y	Y	Y	Y	Y	Y	Prior to the issue of planning approval	N	WCX M5 AT CDS-JV RMS	No assessment or approvals under parts of the EP&A Act this approval). The establishment of ancillar approved AFMP (M5N-ES-PL Addendum 1 of the AFMP ha power to ancillary facilities.
A8		The Proponent must ensure that all licences, permits and approvals are obtained as required by law and maintained as required throughout the life of the SSI. No condition of this approval removes the obligation for the Proponent to obtain, renew or comply with such licences, permits or approvals.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction	N	WCX M5 AT CDS-JV RMS	The CEMP identifies the legis required licences, permits ar track compliance with all ide Additional approvals obtaine • Environment Protection Li • Environment Protection Li • EPBC Approval, dated 11 J
A9		This approval does not apply to the operation of off-site spoil receiving locations and facilities. The receipt of spoil at these location and facilities must be undertaken in accordance with approvals or licences applying to those locations or facilities.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Tunnelling and Excavation	N	CDS-JV	All spoil management, incluc undertaken in accordance w D51. The Spoil Management Plan
A10		The Proponent may elect to construct and/or operate the SSI in stages. Where staging is proposed, the Proponent must submit a Staging Report to the Secretary prior to the commencement of each proposed stage. The Staging Report must provide details of:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	WCX M5 AT CDS-JV RMS	The Proponent has notified t of this Staging Report. The fi establishment of the constru- to construction compounds; includes continuation of esta-
A10	(a)	how the SSI would be staged, including general details of work activities associated with each stage and the general timing of when each stage would commence; and												activities (excluding local ro includes tunnelling activitie: 2017 and will include the lo broken down into substage: This table supports the Stag
A10	(b)	details of the relevant conditions of approval, which would apply to each stage and how these will be complied with across and between the stages of the SSI.												complied with during all esta
A10		Where staging of the SSI is proposed, these conditions of approval are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s).												
A11		The Proponent must ensure that any strategy, plan, program, or other document, required by the conditions of this approval is submitted to the Secretary no later than one month prior to the commencement of construction or of the relevant stage(s), if the SSI is to be staged, (as identified in the Staging Report), unless otherwise agreed by the Secretary. While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the activities on site are covered by relevant and suitable strategies, plans or programs at all times; and If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction	N	WCX M5 AT CDS-JV RMS	Noted.



DRAGADOS



als were obtained for establishment of ancillary facilities Act other than Part 5.1 State significant infrastructure (i.e.

illary facilities is being undertaken in accordance with the -PLN-PWD-0026).

P has been approved by DPE, and includes the provision of HV 25.

egislative and other requirements of the Project, including s and approvals. The CTP and associated compliance reports identified approvals. hined to date include: n Licence (EPL 20772), n Licence (EPL 4627),

1 July 2016.

cluding approvals checks for receiving sites, will be e with the Project Spoil Management Plan, as required by CoA

an was approved by DP&E on 23/11/2016.

ed the Secretary that they intend to stage the project, by way e first stage commenced in July 2016 and included site struction compounds (C1 – C11) and installation of HV power ds; the second stage commenced in August 2016 and establishment activities as well as surface construction roads); the third stage commenced in November 2016 and ties. The fourth stage is expected to commence in January local road upgrade works. Each of the four stages is further ges as described in the Staging Report. aging Report and identifies how the conditions will be

aging Report and identifies how the conditions will be establishment and construction stages.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
A12		The Proponent will be responsible for any breaches of the conditions of approval resulting from the actions of all persons that it invites onto the site, including contractors, sub-contractors and visitors.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction	N	CDS-JV	All CDS-JV employees, subco inductions, training and awa CEMP. Ongoing and regular inspect project are undertaken in ac compliance with all approva Any breaches of conditions o quarterly construction comp
A13		In the event of a dispute between the Proponent and another public authority in relation to an applicable requirement in this approval, either party may refer the matter to the Secretary for resolution. The Secretary's determination of any such dispute will be final and binding on the parties unless further statutory approval is required.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	WCX M5 AT CDS-JV RMS	Disputes will be managed in Strategy (M5N-CS-PLN-PWD
A14		The Proponent must prepare and implement a Compliance Tracking Program to track compliance with the requirements of this approval. The Compliance Tracking Program must be submitted to the Secretary for approval prior to the commencement of construction and operate for a minimum of 24 months following commencement of operation, subject to the Secretary's review of the outcomes of the Independent Environmental Audit Report required by condition E51. The operation of the program may be extended if the Secretary determines that there has been unsatisfactory compliance. The Compliance Tracking Program must include, but not be limited to:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	Y	CDS-JV WCX M5 AT RMS	A Compliance Tracking Progr compliance with the condition Section 2.1 of the CTP addree Section 2.2 addresses the per Section 2.3 addresses the per Section 2.4 addresses the re- Section 2.5 addresses the re- Section 2.6 addresses the re- Section 2.7 addresses training The Construction Compliance project requirements throug The CTP was submitted to Di 25/07/2016.
A14	(a)	provision for the notification of the Secretary prior to the commencement of construction and prior to the commencement of operation of the SSI (including prior to each stage, where works are being staged);	N	N	N	Y	N	N	Y	N		N	CDS-JV WCX M5 AT RMS	
A14	(b)	provision for periodic review of the compliance status of the SSI against the requirements of this approval and the environmental management measures committed to in the document referred to in condition A2(c);	Y	Y	Y	Y	Y	Y	Y	Y		N	CDS-JV WCX M5 AT RMS	
A14	(c)	provision for periodic reporting of compliance status to the Secretary, including but not limited to –												
A14	(c)	(i) a Pre-Construction Compliance Report prior to the commencement of construction;	Y	Ν	N	N	N	N	N	N		Ν	CDS-JV WCX M5 AT RMS	
A14	(c)	(ii) quarterly Construction Compliance Reports, for the duration of construction, and	Y	Y	Y	Y	Y	Y	Y	Y		Ν	CDS-JV WCX M5 AT RMS	
A14	(c)	a Pre-Operation Compliance Report prior to the commencement of operation; and six monthly operational compliance reports	Ν	Ν	Ν	N	N	N	Y	N		N	CDS-JV WCX M5 AT RMS	
A14	(d)	a program for independent environmental auditing in accordance with AS/NZS ISO 19011:2014 - Guidelines for Auditing Management Systems;	Y	Y	Y	Y	Y	Y	Y	Y		N	CDS-JV WCX M5 AT RMS	





DRAGADOS



ocontractors and visitors are required to attend project wareness sessions in accordance with Element 7 of the

ections, monitoring and audits of works associated with the accordance with Element 12 of the CEMP to verify ovals, legal and other requirements. ns or other project requirements will be documented in the mpliance reports required by condition A14.

I in accordance with the Community Communications VD-0008) and this condition.

ogram (CTP) has been developed by CDS-JV to track litions of approval and other project requirements. dresses notification requirements.

- periodic review of compliance status.
- periodic reporting of compliance status.
- vironmental auditing.
- recording and reporting of environmental incidents. management of non-conformances.
- ining and awareness requirements for the project.
- ance Reports provide a summary of compliance with all bughout the construction period.
- DP&E on 8/06/2016 and was approved by DP&E on

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
A14	(e)	mechanisms for recording environmental incidents during construction and actions taken in response to those incidents;	Y	Y	Y	Y	Y	Y	Y	Y		N	CDS-JV WCX M5 AT RMS	
A14	(f)	provision for reporting environmental incidents to the Secretary during construction, in accordance with conditions A15 and A16;	Y	Y	Y	Y	Y	Y	Y	Y		N	WCX M5 AT CDS-JV RMS	
A14	(g)	procedures for rectifying any non-compliance identified during environmental auditing, review of compliance or incident management; and	Y	Y	Y	Y	Y	Y	Y	Y		N	CDS-JV WCX M5 AT RMS	
A14	(h)	provision for ensuring all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities	Y	Y	Y	Y	Y	Y	Y	Y		N	CDS-JV WCX M5 AT RMS	
A15		The Proponent must notify the EPA in relation to any pollution incident in carrying out the SSI as required by the Protection of the Environment Operations Act 1997. The Proponent must provide the Secretary with a record of any such notification.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	WCX M5 AT CDS-JV RMS	Where required in accordan Management Plan (M5N-HS will be undertaken for any n pollution incidents. The Secretary will also be pr in Element 9 of the CEMP.
A16		The Proponent must notify the Secretary (using the contact name and phone number notified by the Department from time to time) of any incident (other than those relating to the Protection of the Environment Operations Act 1997) with actual, or potential, significant off-site impacts on people or the biophysical environment immediately of becoming aware of the incident on weekdays, or the following business day on weekends, public holidays and site shutdown. The Proponent must provide full written details of the incident to the Secretary within seven days of the date on which the incident occurred.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	WCX M5 AT CDS-JV RMS	CDS-JV will notify the Secret Act) with actual or potential environment in accordance CDS-JV will provide the Secre EPA.
A17		The Proponent must meet the requirements of the Secretary or relevant public authority (as determined by the Secretary) to address the cause or impact of any incident, as it relates to this approval.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	WCX M5 AT CDS-JV RMS	Incidents will be investigated requested by the Secretary of be incorporated into the inv
B1		The ventilation outlets must be constructed at the locations specified in Appendices A, B and C.	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	Detailed design for the venti constructed in accordance w
B2		Unless otherwise approved by the Secretary, the ventilation outlets must be constructed at an approximate height of:	N	N	N	N	N	N	Y	N	Construction	Ν	CDS-JV	Detailed design for the vent constructed in accordance w
B2	(a)	the Kingsgrove ventilation outlet: RL 53 metres (AHD) being a height of 30 metres above the ground in the location shown in Figure 1 in Appendix A;	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	
B2	(b)	the Arncliffe ventilation outlet: RL 39 metres (AHD) being a height of 35 metres above the ground in the location shown in Figure 2 in Appendix B; and	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	
B2	(c)	the St Peters ventilation outlet: RL 25.5 metres (AHD) being a height of 20 metres above the ground in the location shown in Figure 3 in Appendix C.	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	

WestConnex New M5



DRAGADOS



lance with the EPL (EPL 20772 & EPL 4627), the Incident HS-PLN-PWD-0004) and the POEO Act, notification to the EPA y non-conformances with the conditions of the EPL and

provided with a record of any such notifications, as detailed

retary of any incident (other than those relating to the POEO cial significant off-site impacts on people or the biophysical ce with Element 9 of the CEMP.

ecretary with records of any notification of incidents to the

ted as detailed in Section 9 of the CEMP, and where ry or relevant public authority, additional requirements will investigation.

entilation outlets is progressing and outlets will be e with this Condition.

entilation outlets is progressing and outlets will be e with this Condition.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B3		The ventilation outlet exit plane must have a minimum exit velocity or variable velocity, as detailed in the WestConnex New M5 Air Quality Assessment Report (RMS, 2015) (a component of the documents listed in condition A2), to be determined in the Tunnel Ventilation, Incident Response and Traffic Management Systems Integration Protocol required under condition B7. This is unless an equivalent or better environmental outcome than presented in the Proponent's most up to date air assessment can be demonstrated to the Secretary, in consultation with the EPA.	N	N	N	N	N	N	Y	N	Detailed Design	N	CDS-JV	Ventilation outlets will be de
B4		The tunnel ventilation system must be designed, constructed and operated to only release emissions from the ventilation outlets referred to in condition B2, and to avoid emissions from the portals and/or the emergency smoke extraction facilities at Bexley and Arncliffe. Emissions from the emergency smoke extraction facilities are excepted for emergency smoke management purposes in the event of a fire in the tunnel and periodic testing of the system as defined in the Operation Environmental Management Plan required under condition E31(g).	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV WCX M5 AT	Ventilation outlets will be de
B5		The tunnel must be designed and constructed so as to allow for future modification of the ventilation system if required. The Proponent must submit a report to the Secretary demonstrating how this will be allowed for prior to finalising detailed design	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	Noted. The tunnel will be de modification of the ventilation The Ventilation Design Repo will be submitted to the Secu
B6		The Proponent must install ventilation outlet emission sampling points and associated safe access thereto, during construction of the ventilation outlet. The sampling points must be designed and located in accordance with the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (EPA, 2007, or as updated), or an equivalent methodology approved by the Secretary in consultation with the EPA.	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	The tunnel shall be designed ventilation system. This shall Installation of emission samp compliance report.
Β7		Prior to operation, the Proponent must prepare and implement a Tunnel Ventilation, Incident Response and Traffic Management Systems Integration Protocol in consultation with the Transport Management Centre. The Tunnel Ventilation, Incident Response and Traffic Management Systems Integration Protocol must be reviewed by a suitably qualified and experienced independent ventilation specialist to confirm that, before the tunnel is open to traffic, the ventilation/traffic management systems would operate together to ensure that the conditions of this approval are met. The Protocol should include a commissioning procedure to be completed before the tunnel is opened to traffic. The Protocol must be submitted to the Secretary for approval at least six months prior to the operation of the SSI.	N	N	Ν	N	N	N	Y	N	Prior to operation	Y	CDS-JV	The Tunnel Ventilation, Incid Integration Protocol will be p operation compliance report
Β7		Note: Tunnel ventilation design and operation, incident response triggers and procedures, and traffic management, should be fully integrated in accordance with the primary objective of ensuring the safety of motorists in the tunnel.												



DRAGADOS



e designed and constructed in accordance with this Condition.

e designed and constructed in accordance with this Condition.

designed and constructed so as to allow for potential future ation system.

port will demonstrate compliance with this condition and ecretary prior to finalising the detailed design.

ned and constructed so as to allow for sampling of the hall be detailed in the In-stack Air Monitoring Report. ampling points will be reported on in the relevant quarterly

ncident Response and Traffic Management Systems be prepared prior to operation and reported on in the presort.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B8		Prior to operation, the Proponent must install permanent signage at each tunnel entrance and use variable messaging signage provided at regular intervals throughout the tunnel to instruct tunnel users to close windows and turn on recirculated air. Relevant information about this instruction is to be provided on a website, operated by the Proponent, which is maintained throughout operation of the SSI.	N	Ν	N	N	N	N	Y	N	Prior to operation	N	CDS-JV WCX M5 AT	Signage will be specified and Compliance with this condit report.
B9		Prior to finalising the detailed design of the SSI and establishing the ambient air quality monitoring stations required under condition E10 the Proponent must establish an Air Quality Community Consultative Committee (AQCCC) to provide input prior to and during the operation of the SSI. The AQCCC must:	N	Ν	Ν	Y	Y	Y	Y	Y	During design	Y	WCX M5 AT CDS-JV RMS	The AQCCC will be set up pr monitoring stations and will
В9	(a)	be comprised of -												
В9		<ul> <li>two representatives from the Proponent and tunnel operator;</li> </ul>												
B9		<ul> <li>(ii) one representative from each of the relevant councils, whose attendance is only required when considering matters relevant to their respective local government area;</li> </ul>												
В9		(iii) three representatives from the local community adjacent to the St Peters ventilation facility or three representatives from the local community adjacent to the Kingsgrove ventilation facility or three representatives adjacent to the Arncliffe ventilation facility whose attendance is only required when considering matters relevant to their respective local area, and whose appointment has been <b>approved</b> by an expression of interest process conducted by the Proponent in <b>consultation</b> with the Secretary, and												
B9		a Chair who is an independent party put forward by the Proponent and <b>approved</b> by the Secretary;												
В9	(b)	meet at least four times a year, or as otherwise agreed by the chair and the Secretary;												
B9	(c)	review and provide advice on the location of the air quality monitoring stations required under condition E10, operation environmental management plans and other operation stage documents, compliance tracking reporting, audit reports, or complaints as they relate to air quality; and												
В9	(d)	provide advice on the dissemination of monitoring results and other information on air quality issues												
В9		The AQCCC must operate for up to two years after commencement of operation, or as otherwise approved or directed by the Secretary, in consultation with the Chair.												



DRAGADOS



and installed in accordance with this Condition. dition will be reported on in the pre-operation compliance

prior to the establishment of the ambient air quality vill be operated in accordance with this condition.

Re	f Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B10	)	The Proponent must offset the entire community of the Environmental Protection and Biodiversity Conservation Act 1999 listed Cooks River/Castlereagh Ironbark Forest Critically Endangered Ecological Community located at the site adjacent to Rosebank Avenue between Beverly Grove and Canterbury Golf Course. Construction works involving impacts to the listed community must not commence until the offsets required have been fully identified and evidence provided that they should be achievable. All ecosystem credits proposed to provide biodiversity offsets for this community must be generated by native vegetation meeting the definition of this ecological community under the Environment Protection and Biodiversity Conservation Act 1999. Calculation of the credits required for that part of the community not directly impacted by the project (approximately 0.4 hectares) is to be calculated using a pro-rata assessment (i.e. approximate 0.4 hectares divided by area of community directly impacted).	N	N	Ν	Y	Ν	Ν	Ν	Ν	Construction	Ν	CDS-JV	A Biodiversity Offset Package Biodiversity Offset Strategy i River/Castlereagh Ironbark F (approximately 1.8 hectares) described in Section 6.4 of th Plan (M5N-ES-PLN-PWD-000 A progress report was submi progress toward securing off
B1:	L	The Proponent must offset impacts to the Paperbark Swamp Forest and Green and Golden Bell Frog in accordance with the requirements of the Framework for Biodiversity Assessment.	N	N	N	N	N	N	N	N	Construction	N	WCX M5 AT CDS-JV	Impacts to the Paperbark Sw in accordance with the meth included in Appendix T of the Biodiversity Assessment. Thi accordance with condition B
B12	2	The Proponent must prepare a report which details the progress made towards securing the offsets described in the Biodiversity Offset Strategy presented in the document referred to in condition A2(b) and required by conditions B10 and B11. The report must be submitted to the Secretary for approval prior to the commencement of any works that may impact on the vegetation communities and Green and Golden Bell Frog and its habitat.	Ν	Ν	N	Y	N	N	N	N	Construction	Y	WCX M5 AT CDS-JV	An offset report that details B11 has been approved by th towards securing offsets for Biodiversity Offset Strategy a
B1:	3	Within 12 months of the commencement of construction, unless otherwise agreed by the Secretary, the Proponent must develop and submit to the Secretary for approval, a Biodiversity Offset Package. The Package must be prepared in consultation with OEH and DoE and confirm how the impacts of the SSI will be offset. The Package must be consistent with the biodiversity offset strategy requirements of the NSW Biodiversity Offsets Policy for Major Projects (OEH, 2014). The Package must include, but not necessarily be limited to:	Ν	Ν	N	N	N	N	N	N	Detailed Design, Operation	Y	WCX M5 AT CDS-JV	A Biodiversity Offset Package consultation with OEH and D Biodiversity Offset Strategy of Cooks River/Castlereagh Iror will be developed in accorda DP&E within 12 months of th
B13	3 (a)	identification of the number of biodiversity credits required to offset the impacts of the SSI;												
B13	3 (b)	details on the biodiversity credits identified to offset the impacts of the SSI and evidence that they can be attained and secured in accordance with the NSW Biodiversity Offsets Policy for Major Projects; and												
B13	3 (c)	for offsets not secured through the retirement of biodiversity credits, details on the supplementary measures that would be implemented to offset the residual impacts, in accordance with Appendix B of the NSW Biodiversity Offsets Policy for Major Projects and the Framework for Biodiversity Assessment (OEH, 2014).												



DRAGADO



Tage is being developed generally in accordance with the gy included in Appendix T of the EIS. The entire Cooks rk Forest Critically Endangered Ecological Community res) will be offset, in accordance with this condition. This is of the approved Construction Flora and Fauna Management 0007).

omitted to DP&E on 27/07/2016 (refer CoA B12) to describe offsets for this Critical EEC.

Swamp Forest and Green and Golden Bell Frog will be offset ethodology outlined in the Biodiversity Offset Strategy the EIS, which is in accordance with the Framework for This will be detailed in the Biodiversity Offset Package in n B13.

ills progress on securing the offsets as per conditions B10 and y the Secretary, DP&E on 31/05/2016 that describes progress for the two ecological communities described in the gy and the Green and Golden Bell Frog and its habitat.

Tage is under development and is being prepared in d DoE. The Package is being prepared in accordance with the gy outlined in Appendix T of the EIS. Total offsets for the Ironbark Forest Critically Endangered Ecological Community, rdance with condition B10. The Package will be submitted to of the commencement of construction.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B13		All required offsets must be secured within two years of the commencement of construction unless otherwise agreed by the Secretary, in consultation with the OEH and DoE. The Proponent must submit to the Secretary and DoE a copy of the credit retirement report issued by the OEH once the offsets are secured, within one month of receiving the report.												
B13		Should supplementary measures be proposed, the Package must also provide details on:												
B13	(a)	the management and monitoring requirements for compensatory habitat works and other biodiversity offset measures proposed to ensure the outcomes of the package are achieved, including:												
B13		<ul> <li>the monitoring of condition of species and the ecological communities at offset (including translocation) locations,</li> </ul>												
B13		<ul> <li>(ii) the methodology for the monitoring program(s), including the number and location of offset monitoring sites, and the sampling frequency at these sites;</li> </ul>												
B13		(iii) provisions for the annual reporting of the monitoring results to the Department, OEH and DoE and the public for a set period of time, as determined in consultation with OEH and DoE;												
B13		timing and responsibilities for the implementation of the supplementary measures; and												
B13	(b)	processes and/or measures that would be implemented to ensure that any land offsets are protected and managed in perpetuity.												
B13		The supplementary measures must be implemented by the Proponent according to the timeframes set out in the Biodiversity Offset Package, unless otherwise agreed by the Secretary.												
B14		The Proponent must prepare and submit to the Secretary for approval an updated Green and Golden Bell Frog Plan of Management for the Arncliffe population of Green and Golden Bell Frog prior to commencing construction at the Arncliffe construction compound. The Plan must be developed from the Green and Golden Bell Frog Management Plan presented in the document referred to in condition A2(b), by a suitably qualified and experienced frog specialist, in consultation with OEH. The updated Plan must include, but not necessarily be limited to:	N	Ν	N	Ν	Y	N	N	Ν	Pre-construction Construction	Y	WCX M5 AT	The updated Green and Go Secretary, DP&E on 17 May The Plan was developed in condition. The Plan is being Pre-establishment activities Compound Sub-plan (MSN- for management of the Gre
B14	(a)	an adaptive monitoring program to assess the effectiveness of the construction and operational mitigation measures and ongoing survival of the Arncliffe population at the Kogarah Golf Course. The monitoring program must –												
B14		<ul> <li>detail the monitoring that would be undertaken during construction to ascertain the effectiveness of the on-site management and mitigation measures at limiting impacts on the Green and Golden Bell Frogs, NSW Government Department of Planning and Environment</li> </ul>												



DRAGADOS



Golden Bell Frog Plan of Management was approved by the Nay 2016.

in consultation with OEH and in accordance with this sing implemented during the construction phase. ties as described in the approved Arncliffe Construction 5N-ES-PLN-ARN-0001; refer condition D58) were undertaken

Green and Golden Bell Frog prior to site establishment.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B14		(ii) include provision for ongoing monitoring of the Arncliffe population during operation of the SSI until such time as the use and effectiveness of the proposed mitigation measures can be demonstrated to have been achieved over a minimum of three generations of frogs, unless otherwise agreed by the Secretary in consultation with OEH												
B14		(iii) nominate the performance criteria against which the ongoing survival of the Arncliffe population at the Kogarah Golf Course will be measured during construction and operation of the SSI, and the timing and responsibilities for monitoring during construction and operation,												
B14		<ul> <li>(iv) include goals and performance indicators to measure the effectiveness of the mitigation measures that are specific, measurable, achievable, realistic and timely (SMART),</li> </ul>												
B14		(v) provide details of contingency measures and corrective actions that would be implemented in the event of reductions in population numbers, habitat usage and distribution and movement of the Green and Golden Bell Frog, and												
B14		address densities, distribution and habitat use;												
B14	(b)	evidence of consultation with the OEH and how its comments have been addressed in the updated Plan;												
B14	(c)	mechanisms for the ongoing monitoring, review and amendment of this Plan; and												
B14	(d)	mechanisms for annual reporting of the monitoring results to the Secretary and publication of the annual report on the Proponent's website.												
B14		The Green and Golden Bell Frog Management Plan must be implemented.												
B15		The Proponent must prepare and submit to the Secretary for approval within three months of the commencement of construction of the SSI, unless otherwise agreed by the Secretary, an updated Habitat Creation and Captive Breeding Plan. The Plan must be developed from the Habitat Creation and Captive Breeding Plan - Green and Golden Bell Frog at Arncliffe presented in the document referred to in condition A2(c), by a suitably qualified and experienced frog specialist, in consultation with OEH. The updated Plan must include, but not necessarily be limited to:	N	N	N	Ν	N	N	Y	Y	Construction	Y	WCX M5 AT	An update to the Habitat Cr Frog at Arncliffe, included ir established within 12 month with the Plan, once approve
B15	(a)	an adaptive monitoring program to assess the success of the habitat creation and survival and breeding of the released Green and Golden Bell Frog population at the created Marsh Street habitat area. The monitoring program must include –												
B15		<ul> <li>details on the monitoring that would be undertaken to ascertain the effectiveness of the breeding plan, colonisation of the Marsh Street habitat and connectivity with the Kogarah Golf Course;</li> </ul>												
B15		<ul> <li>(ii) provision for ongoing monitoring of the Green and Golden Bell Frog population, including densities, distribution and habitat use;</li> </ul>												



DRAGADOS



t Creation and Captive Breeding Plan - Green and Golden Bell ed in the EIS, is being finalised. The Marsh Street habitat will be onths of the commencement of construction in accordance roved.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B15		<ul> <li>(iii) the performance criteria against which the ongoing survival of the frog population will be measured;</li> </ul>												
B15		<ul> <li>(iv) performance indicators that are specific, measurable, achievable, realistic and timely (SMART);</li> </ul>												
B15		<ul> <li>(v) details on the timing and responsibilities for monitoring, and</li> </ul>												
B15		details of contingency measures and corrective actions that would be implemented in the event of reductions in population numbers, habitat usage and distribution and movement of the Green and Golden Bell Frog;												
B15	(b)	details on the husbandry protocols that would be implemented including the experts involved and facility that would conduct the captive breeding program;												
B15	(c)	adherence to the Guidelines for minimising disease risks associated with captive breeding, raising and restocking programs for Australian frogs (Murray et al, 2011);												
B15	(d)	processes to ensure that frogs are also available for release at the breeding ponds at the Kogarah Golf Course in the event that the existing population becomes extinct;												
B15	(e)	detailed disease and predator protocols for the released frogs;												
B15	(f)	processes for certifying that imported landscaping materials are disease free;												
B15	(g)	ongoing maintenance and management procedures for the Marsh Street habitat and Green and Golden Bell Frog Population, including timing and responsibilities; and												
B15	(h)	evidence of consultation with the OEH and how its comments have been addressed in the updated Plan;												
B15	(i)	responsibilities for the timing and implementation of the Plan;												
B15	(j)	mechanisms for the ongoing monitoring, review and amendment of this Plan; and												
B15	(k)	mechanisms for annual reporting of the monitoring results to the Secretary and publication of the annual report on the Proponent's website.												
B15		The Habitat Creation and Captive Breeding Program must be implemented and the Marsh Street habitat area established within'12 months of the commencement of construction, unless otherwise agreed by the Secretary.												
B16		Where the results of monitoring undertaken in accordance with condition B14(i) indicates that the implemented mitigation measures at the Kogarah Golf Course are ineffective or adverse changes to the population have occurred, the Proponent must provide the Secretary, within one month of recording the changes, notification of the adverse changes and details of the corrective actions/management measures that are proposed to be implemented. The corrective actions/management measures must be developed in consultation with the OEH.	N	Ν	Ν	N	Y	Ν	N	N	Construction	N	WCX M5 AT CDS-JV	Monitoring will be undertal of Management (approved performance indicators der adverse changes are occurr condition will be undertake



DRAGADOS



ertaken in accordance with the Green and Golden Bell Frog Plan ved by the Secretary on 17/05/16). Where the nominated demonstrate management measures are being ineffective or curring, notification and corrective actions as required by this taken.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B16		For the purpose of this condition, an 'adverse change' means an observed change in the abundance, growth or structure of the Arncliffe population of Green and Golden Bell Frogs. This includes, but is not limited to:												
B16	(a)	a decrease in the overall abundance of Green and Golden Bell Frogs in the Arncliffe population;												
B16	(b)	a shift in the population structure, such as a proportional decrease in the number of sexually mature males or females;												
B16	(c)	a change in the population growth, such as the documented loss of cohorts of adults and/or juveniles from the [Arncliffe] population; and/or												
B16	(d)	an increase in the occurrence of a known threat to the survival of individuals of this species at each life stage, including but not limited to the presence of Plague Minnow (Gambusia affinis) and/or Chytrid Fungus (Phylum chytridiomycota).												
B17		If, after 12 months, the corrective actions/mitigation measures are shown to be unsuccessful, the Proponent must submit to the Secretary, for approval, a further offset for the impacts to that part of the Arncliffe population occurring at the Kogarah Golf Course. The approved offset must be in place within 12 months of the Secretary's approval, unless otherwise agreed by the Secretary. The offset must require the retirement of Green and Golden Bell Frog species credits calculated in accordance with the Framework for Biodiversity Assessment, from a BioBanking agreement that includes a breeding site for this species.	N	Ν	N	Ν	Y	N	N	N	Construction & Operation if triggered	Y	WCX M5 AT	Further offsets will be provid
818		In the event that the existing Arncliffe population at the Kogarah Golf Course becomes extinct, in addition to the additional offset requirements of condition B17, the Proponent must prepare and implement a program for the release of Green and Golden Bell Frogs from the captive breeding program (undertaken in accordance with condition B15) into the Kogarah Golf Course. The release program must be developed in consultation with the OEH and submitted to the Secretary for approval within 12 months of the local extinction being recorded and before the frogs are released. The release program must be implemented.	Ν	Ν	N	N	Y	N	Ν	Ν	Construction &, Operation if triggered	Y	WCX M5 AT	A program for the release of required by this condition sh
B19		In the event that the release of Green and Golden Bell Frogs from the captive breeding program is unsuccessful, the Proponent must investigate translocation from an alternate population. Any translocation would require licensing under the National Parks and Wildlife Act 1974.	N	N	N	Ν	Y	N	N	N	Construction, operation	N	WCX M5 AT	Options for translocation wi Bell Frogs be required in the
B20		Except as may be provided by an EPL, the SSI must be constructed and operated to comply with section 120 of the Protection of the Environment Operations Act 1997, which prohibits the pollution of waters.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction, construction	Ν	CDS-JV	The project will be designed Soil and Water Quality Sub- approved as part of the CEN CSWQSP includes environme (Section 7). The Project has obtained EP be in accordance with the N 0035) to meet the limits set Notification to the EPA will b required by the EPLs.

WestConnex New M5



DRAGADOS



ovided in accordance with this condition if required.

e of Green and Golden Bell Frogs will be developed as should the existing population become extinct.

will be investigated should the release of Green and Golden the case of condition B18 being unsuccessful.

ed and constructed to avoid water pollution. A Construction b-Plan (CSWQSP, M5N-ES-PLN-PWD-0005) has been EMP and will be implemented during construction. The imental measures to control and manage construction water

EPLs (#20772 and #4627) and all discharge to waterways will e Manage Soil and Water Procedure (M5N-ES-PRC-PWD-set in the EPLs.

ill be undertaken in the event of a pollution incident as

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B21		All activities taking place in, on or under waterfront land, as defined in the Water Management Act 2000 should be conducted generally in accordance with the Guidelines for Controlled Activities on Waterfront Land (DPI, 2012).	Y	Y	Y	Y	Y	N	Y	Y	Pre-construction, construction	N	CDS-JV	This requirement has been a the approved CSWQSP (M5N Compliance with this condition
B22		Watercourse crossings, including temporary work platforms, waterway crossings and/or coffer dams, where feasible and reasonable, must be consistent with the NSW Guidelines for Controlled Activities Watercourse Crossings (DPI, 2012), Why do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (Fairfull and Witheridge, 2003), Policy and Guidelines for Fish Friendly Waterway Crossings (NSW Fisheries February, 2004), and Policy and Guidelines for Fish Habitat Conservation and Management (DPI Fisheries, 2013). Where multiple cell culverts are proposed for crossings of fish habitat streams, at least one cell must be provided for fish passage, with an invert or bed level that mimics watercourse flows.	N	N	N	Y	Y	Y	N	Y	Construction	N	CDS-JV	This requirement has been a the approved CSWQSP (M5N work platforms / temporary with the referenced docume
B23		A Flood Mitigation Strategy must be prepared and implemented in respect of the flood prone land and overland flow paths for the waterways and catchments in the vicinity of the SSI. The Flood Mitigation Strategy must be designed to ensure that the SSI, where feasible and reasonable, does not worsen existing flooding characteristics in the vicinity of the SSI during construction and operation. The Flood Mitigation Strategy must include but not be limited to:	Y	Y	Y	Y	Y	Y	Y	Y	Prior to commencement of works which have been identified in the documents listed in condition A2(b) and A2(c) as potentially increasing flood levels or as otherwise agreed by the Secretary	Ν	CDS-JV	A Flood Mitigation Strategy ( approach to flood mitigation to the DPI (Water), OEH, Syd - City of Sydney - Hurstville - Inner West - Bayside - Canterbury-Bankstown The FMS will be supported bi outcomes and specific mitiga this condition. These plans w works and will be submitted commencement of the relevant The FMS was submitted to D comments.
B23	(a)	the identification of flood risks to the SSI and adjoining areas, including further modelling and the consideration of local drainage catchment assessments, and climate change implications on rainfall and drainage characteristics. This must consider blockages of waterway structures from floating debris in its flood level modelling;												
B23	(b)	a floor level survey to verify whether inundation would be above the floor levels of residential, commercial and/or industrial buildings;												
B23	(c)	the identification of design and mitigation measures that would be implemented to protect proposed operations;												
B23	(d)	not worsen existing flooding characteristics within and in the vicinity of the SSI boundary during construction and operation, including soil erosion and scouring;												
B23	(e)	consideration of limiting flooding characteristics to the following levels:												
B23		(i) a maximum increase in inundation time of one hour in a 1 in 100 year ARI rainfall event;												
B23		<ul> <li>a maximum increase of 10 mm in inundation at properties where floor levels are currently exceeded in a 1 in 100 year ARI rainfall event;</li> </ul>												



DRAGADOS



n addressed in detailed design and Sections 5.7 and 7.1 of 15N-ES-PLN-PWD-0005).

dition will be reported in quarterly compliance reports.

n addressed in detailed design and Sections 5.7 and 7.1 of ISN-ES-PLN-PWD-0005). All proposed watercourse crossings, ary crossings or coffer dams will be designed in accordance ments.

gy (FMS) has been prepared that outlines the project ion in accordance with this condition. The FMS was provided Sydney Water and the following councils for consultation:

d by separate Flood Mitigation Plans that detail the design tigation measures to be applied to individual sites to meet ns will be prepared for temporary works and for permanent ted to DPE in a staged approach, and prior to the levant stage.

o DPE on 25/05/16 and is being updated in response to DPE

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B23		(iii) a maximum increase of 50 mm in inundation at properties where floor levels would not be exceeded in a 1 in 100 year ARI rainfall event; and												
B23		(iv) no inundation of floor levels which are currently not inundated in a 1 in 100 year ARI rainfall event,												
B23		or else provide alternative flood mitigation solutions consistent with the intent of these limits;												
B23	(f)	the processes and actions committed to in the mitigation measures referred to in conditions A2(b) and A2(c);												
B23	(g)	the identification of measures to be implemented to minimise scour and dissipate energy at locations where flood velocities are predicted to increase as a result of the SSI and cause localised soil erosion or scour;												
B23	(h)	reconsideration of the proposed flood storage along Marsh Street with the intent of incorporating the flood storage requirements of the SSI into the proposed flood storage for the Cooks Cove development												
B23	(i)	identification of drainage system upgrades including those upgrades considered as mitigation measures and identified during the processes outlined in condition B29; and												
B23	(j)	identification of the timing and maintenance responsibility of any necessary works.												
B23		The Flood Mitigation Strategy must be prepared by a suitably qualified and experienced person in consultation with directly affected landowners, Sydney Water, OEH, and relevant councils.												
B23		The Flood Mitigation Strategy must be peer reviewed and confirmed as meeting the requirements of this condition by a suitably qualified and experienced independent hydrological engineer.												
B23		The Flood Mitigation Strategy must be submitted to the Secretary and the relevant council(s) prior to the commencement of works which have been identified in the documents listed in condition A2(b) and A2(c) as potentially increasing flood levels, or as otherwise agreed by the Secretary												
B24		All relevant information must be provided 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 SSI.	N	Ν	Ν	Y	Y	Y	Y	Y	Construction	N	CDS-JV	The Flood Mitigation Strate NSW State Emergency Serv • City of Sydney, • Georges River Council, • Inner West Council, • City of Botany Bay Counc • Rockdale City Council, • Canterbury-Bankstown C
B25		Unless otherwise agreed by the Secretary, a Flood Review Report(s) must be prepared within three months after the first defined flood event for any of the following flood magnitudes – the 5 year ARI event, 20 year ARI event, 100 year ARI event and probable maximum flood - to assess the actual flood impact against those predicted in Appendix P of the document referred to in condition	Y	Y	Y	Y	Y	Y	Y	Y	Subsequent to first defined flood	N	CDS-JV	This condition will be comp be reported on in the relev yet been triggered.



DRAGADOS



ategy and relevant flood information will be provided to the ervice and the following councils, once finalised:

ıncil,

n City Council.

mplied with subsequent to the identified flood event and will levant construction compliance report. This condition has not

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
		A2(b). The Flood Review Report(s) must be prepared by an appropriately qualified person(s) and include:												
B25	(a)	identification of the properties and infrastructure affected by flooding during the reportable event;												
B25	(b)	a comparison of the actual extent, level, velocity and duration of the flooding event against the impacts predicted in Appendix P of the document referred to in condition A2(b), or as otherwise altered by the Flood Mitigation Strategy; and												
B25	(c)	where the actual extent and level of flooding exceeds the predicted level with the consequent effect of adversely impacting of property(ies), structures and infrastructure, identification of the measures to be implemented to reduce future impacts of flooding related to the SSI works including the timing and responsibilities for implementation.												
B25		Flood mitigation measures must be developed in consultation with the affected property/structure/infrastructure owners, OEH and the relevant council.												
B25		A copy of the Flood Mitigation Report(s) must be submitted to the Secretary and relevant council(s) within one month of finalising the report(s).												
B26		The Proponent must take all feasible and reasonable measures to limit operational groundwater inflows into each tunnel to no greater than one litre per second across any given kilometre.	N	N	N	N	N	N	Y	N	Prior to finalisation of tunnel design Operation	Ν	CDS-JV	Tunnels are being designed Compliance with this condit report.
B27		The Proponent must undertake further modelling of groundwater drawdown, tunnel inflows and saline water migration prior to finalising the design of the tunnel and undertaking any works that would impact on groundwater flows or levels. The modelling must be undertaken in consultation with DPI (Water) and include the results of at least 12 months of current baseline groundwater monitoring data. The results of the modelling must be documented in a Groundwater Modelling Report. The Groundwater Modelling Report must be finalised in accordance with the Australian Groundwater Modelling Guidelines (National Water Commission, 2012) and prepared in consultation with DPI (Water). The Groundwater Modelling Report must include, but not be limited to:	N	N	N	N	N	N	Y	Ν	Prior to finalisation of tunnel design	N	CDS-JV	The Groundwater Modelling condition and in consultatio
B27	(a)	justification for layer choice;												
B27	(b)	specification of matrix hydraulic and storage parameters for each layer												
B27	(c)	statistical evaluation of the model's calibration;												
B27	(d)	details of the groundwater monitoring data inputs (levels and quality);												



DRAGADOS



ed and will be constructed in accordance with this Condition. ndition will be reported on in the pre-operation compliance

ling report has been prepared in accordance with this ition with DPI (Water).

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B27	(e)	details of the proposed groundwater model update and validation as additional data is collected;												
B27	(f)	assessment of impacts of groundwater drawdown, taking into consideration the NSW Aquifer Interference Policy (DPI, 2012), including potential impacts on licensed bores and groundwater dependent ecosystems;												
B27	(g)	a comparison of the results with the modelling results detailed in the document referred to in condition A2(b); and												
B27	(h)	documentation of any additional measures that would be implemented to manage and/or mitigate groundwater impacts not previously identified or identified but at a smaller scale.												
B27		A copy of the Groundwater Modelling Report must be submitted to the Secretary prior to finalising the tunnel design. The Groundwater Modelling Report must include details of consultation with DPI (Water)												
B28		A Water Quality Plan and Monitoring Program must be prepared and implemented to monitor and avoid or mitigate impacts on surface and groundwater quality and resources, during construction and operation. The Water Quality Plan and Monitoring Program must be developed in consultation with DPI (Water), Sydney Water and relevant councils, and must include, but not be limited to:	N	Ν	N	Y	Y	Y	Y	Y	Prior to construction	Y	CDS-JV	A Water Quality Plan and Ma has been prepared for the co following stakeholders for co DPI (Water) Inner West Council City of Sydney Council Hurstville Council City of Botany Bay Council Rockdale City Council Canterbury City Council Sydney Water (provided 12) The WQP&MP was submittee subject to further consultatii Baseline Report. The WQP& and resubmitted to DP&E (9)
B28	(a)	identification of works and activities during construction and operation of the SSI, including tunnel discharge, runoff, emergencies and spill events, that have the potential to impact on groundwater quality, levels or potentiometric pressure (in confined aquifers), and surface water quality of potentially affected watercourses and riparian land;												
B28	(b)	a risk management framework for evaluation of the risks to groundwater and surface water resources and dependent ecosystems as a result of groundwater inflows to the tunnels or discharges to surface water receiving environments, including definition of trigger values for contingency and ameliorative measures;												
B28	(c)	the identification of environmental management measures that would be implemented to manage impacts to surface waters and groundwater during construction and operation, including water treatment, erosion and sediment control and stormwater management measures consistent with Water Sensitive Urban Design measures, where relevant, and consistent with the measures detailed in the documents listed in conditions A2(b) and A2(c);												



DRAGADOS



Monitoring Program (WQP∓ M5N-ES-PLN-PWD-0027) e construction phase of works and has been provided to the r consultation on 3/5/2016:

#### d 14/06/16)

itted to DP&E on 8/06/2016 and was approved on 3/08/2016, ation with DPI Water and submission of the Groundwater P&MP and Groundwater Baseline Report have been revised 5 (9/12/16 and 14/12/16 respectively).

Ref	<sup>:</sup> Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B28	(d)	details of construction water treatment plants and the operational water treatment plants, including treatment processes, discharge water quality criteria (taking into consideration any water uses and proposed rehabilitation measures downstream of the discharge locations), discharge locations and rates (and justification for their location), treatment capacity, and any proposed on-site storage of flows;												
B28	(e)	commitment to designing discharge points into watercourses affected by the SSI to emulate a natural stream system, where feasible and reasonable, or where emulation cannot be achieved, adequate scour protection measures are to be implemented;												
B28	; (f)	consideration of any naturalisation or rehabilitation programs occurring upstream or downstream of waterways or drainage lines intersected by the SSI, including the Wolli Creek Riparian Corridor Management Plan;												
B28	; (g)	the presentation of water quality objectives, standards, environmental values and parameters against which any changes to water quality will be assessed, based on the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (Agriculture and Resource Management Council of Australia and New Zealand and the Australian and New Zealand Environment and Conservation Council, 2000). Where alternate guidelines are used to establish water quality objectives (including the levels for protection of aquatic ecosystems in receiving waters), justification for this must be provided. In particular, justification must be provided for the classification of waterways as 'highly disturbed' versus 'slightly to moderately disturbed' receiving environments;												
B28	; (h)	details on the current water quality, including at least 12 months of representative background monitoring data (including but not limited to representative data collected by the relevant councils, agencies and organisations where readily available) for surface and groundwater quality, levels and potentiometric pressures (in confined aquifers), to establish baseline water conditions prior to the commencement of construction;												
B28	(i)	monitoring of the quality of discharges from construction and operational water treatment plants;												
B28	; (j)	identification of construction and operational phase surface water and groundwater monitoring locations including watercourses and waterbodies which are representative of the potential extent of impacts from the SSI, including the relevant analytes and frequency of monitoring;												
B28	; (k)	groundwater monitoring must be able to demonstrate that groundwater discharge quality is consistent with supporting the water quality objectives defined in accordance with B28(g) and include, but not be limited to -												
B28		(iii) sites in the vicinity of Bardwell Park (to confirm groundwater quality),												

WestConnex New M5



DRAGADOS



Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B28		(iv) inside and outside the cut-off wall at the Alexandria Landfill,												
B28		(v) monitoring of groundwater levels at Stotts Reserve, southern bank of Wolli Creek behind the Wolli Creek station and forested areas along Bardwell Creek to ascertain potential impacts on groundwater dependent ecosystems, and												
B28		monitoring of drawdown along the alignment of the tunnels;												
B28	(I)	details on the condition and status of licensed bores likely to be impacted by the SSI;												
B28	(m)	commitment to a minimum monitoring period of three years following the completion of construction or until the affected waterways and/or groundwater resources are certified by a suitably qualified and experienced independent expert as being rehabilitated to an acceptable condition, unless otherwise approved or directed by the Secretary. The monitoring must also confirm the establishment of operational water control measures (such as sedimentation basins and vegetation swales);												
B28	(n)	details of how the potential impact of discharges on receiving waters would be avoided or minimised, including design and operational measures incorporated into the SSI to protect water quality and, where feasible and reasonable, enhance water quality over time;												
B28	(0)	contingency and ameliorative measures in the event that adverse impacts to water quality or groundwater flows, levels or potentiometric pressures (in confined aquifers) are identified, with reference to the impact triggers defined in accordance with B28(b);												
B28	(p)	identification of and commitment to 'make good' provisions for groundwater users to be implemented in the event of a decline in water supply levels, quality and quantity from existing bores associated with groundwater changes from either construction and/or ongoing operational dewatering caused by the SSI;												
B28	(q)	procedures for monitoring of streambed fracturing;												
B28	(r)	procedures for monitoring and annual reporting of extracted groundwater volumes to DPI (Water) for a minimum monitoring period of three years following completion of construction, unless otherwise approved or directed by the Secretary; and												
B28	(s)	procedures for annual reporting of the monitoring results to the Secretary, DPI (Water), and the relevant councils.												
B28		The Water Quality Plan and Monitoring Program must be submitted to the Secretary for approval prior to the commencement of construction of the SSI, unless otherwise agreed by the Secretary. A copy of the Water Quality Plan and Monitoring Program must be submitted to the DPI (Water), Sydney Water and relevant councils prior to its implementation.												

WestConnex New M5



DRAGADOS



Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B28		Nothing in this condition prevents the Proponent from preparing separate Water Quality and Monitoring Programs for the construction and operational stages of the SSI. Where a separate Water Quality and Monitoring Program is prepared for the operation of the SSI, this must be submitted to the Secretary for approval at least six months prior to the commencement of operation of the SSI.												
B29		The Proponent must undertake further hydrological and hydraulic modelling based on the detailed design of the SSI to determine the ability of the receiving drainage systems to effectively convey pavement drainage from the SSI once operational. The modelling must be undertaken in consultation with the relevant council(s) and the outcomes documented in a Stormwater Drainage Report. The Stormwater Drainage Report must:	Y	Y	Y	Y	Y	Y	Y	Y	Prior to drainage works	N	CDS-JV	The Stormwater Drainage R stakeholders and will be sub The Stormwater Drainage R commencement of any new
B29	(a)	confirm the location, size and capacity of all drainage basin structures associated with the operation of the SSI;												
B29	(b)	assess the potential impacts of pavement drainage discharges from the SSI drainage systems on the receiving environment including the hydrology (water quality and quantity) of receiving waterways, riparian vegetation, aquatic ecology and property;												
B29	(c)	identify all feasible and reasonable mitigation measures to be implemented where pavement drainage from the SSI drainage systems is predicted to adversely impact on the receiving environment;												
B29	(d)	where pavement drainage from the SSI flows to a council stormwater drainage system, confirm the location of the cross drainage point and, where available, use drainage information obtained from the relevant council, to –												
B29	(d)	<ul> <li>(i) confirm the capacity of the council's drainage system and its ability to receive and convey the flows,</li> </ul>												
B29	(d)	<ul> <li>(ii) identify any consequent upstream and downstream impacts on cross drainage infrastructure capacity,</li> </ul>												
B29	(d)	(iii) assess the impacts on the receiving environment at the final outflow point resulting from any additional flow volume (including, but not limited to, scour, flooding, water quality impacts, and impacts on riparian vegetation, aquatic ecology and property), and												
B29	(d)	identify all feasible and reasonable mitigation measures to be implemented where increased flows through cross drainage systems adversely impact on council drainage infrastructure and the receiving environment; and												
B29	(e)	set out a clear time frame for the implementation of mitigation measures.												
B29		The Stormwater Drainage Report must be submitted to the Secretary prior to the commencement of any new operational drainage works, modifications to existing stormwater drainage works, or construction of hard surfaces associated with the operation of the SSI that would result in runoff to existing or new stormwater drainage systems, unless otherwise agreed by the Secretary.												

WestConnex New M5



DRAGADOS



e Reports are being developed in consultation with relevant submitted in stages.

Reports will be submitted to DP&E prior to the

ew or modified operational drainage works.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B30		The Proponent must prepare a Water Reuse Strategy which sets out feasible and reasonable options for the reuse of collected stormwater and groundwater during construction and operation of the SSI. The Water Reuse Strategy must include, but not be limited to:	N	N	N	N	N	N	Y	N	Prior to tunnelling works	Y	CDS-JV	The Water Reuse Strategy is operation. The Water Reuse Strategy fo to the commencement of tur be submitted to DP&E at lease
B30	(a)	evaluation of all feasible and reasonable reuse options;												
B30	(b)	details on the preferred reuse option(s), including volumes of water to be reuse, proposed reuse locations and/or activities, proposed treatment (if required), and any additional licences or approvals that may be required; and												
B30	(c)	a time frame for the implementation of the preferred reuse option(s).												
B30		Justification must be provided in the event that it is concluded that no feasible or reasonable reuse options prevail.												
B30		A copy of the Water Reuse Strategy must be submitted to the Secretary for approval prior to commencement of tunnelling works.												
B30		Nothing in this condition prevents the Proponent from preparing separate Water Reuse Strategies for the construction and operational phases of the SSI. Where a separate Strategy is prepared for the operation of the SSI, this must be submitted to the Secretary for approval at least six months prior to the commencement of operation of the SSI.												
B31		Prior to the commencement of any activities that would result in the disturbance of land and/or soil, or as otherwise agreed by the Secretary, in areas identified as having a moderate to high risk of contamination, a <b>Soil</b> <b>Contamination Report</b> must be prepared by a suitably qualified person(s) in accordance with the requirements of the Contaminated Land Management Act 1997 and associated guidelines, detailing the outcomes of Phase 2 contamination investigations within these areas. The Soil Contamination Report must detail, where relevant, whether the land is suitable (for the intended land use) or can be made suitable through remediation and/or outline the potential contamination risks from the SSI to human health and receiving waterways.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	Ν	CDS-JV	Soil Contamination Reports a Pty Ltd in accordance with th associated guidelines to mee Where remediation is requir RAPs are being reviewed to p auditor. No ground is being disturbed where required RAPs comple
B31		For land to be disturbed by the SSI, where the investigations identify that the site is suitable for the intended operations and that there is no need for a specific remediation strategy, measures to identify, handle and manage potential contaminated soils, materials and groundwater must be identified in the Soil Contamination Report and incorporated into the Construction Environmental Management Plan, unless otherwise agreed by the Secretary. Should a remediation strategy be required, the Soil Contamination Report must include a <b>Remediation Action Plan</b> for addressing the disturbed area, and how the environmental and human health risks will be managed during the disturbance, remediation and/or removal of contaminated soil or groundwater.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	Ν	CDS-JV	



DRAGADOS



y is to be submitted in 2 stages, ie construction and

y for construction was approved by DP&E on 3/11/2016 prior tunnelling. The operational phase Water Reuse Strategy will least six months prior to the commencement of operation.

ts are being progressively completed by Golder Associates h the Contaminated Land Management Act 1997 and neet the requirements of condition B31.

uired Remediation Action Plans (RAP) are being undertaken. to produce site audit statements by an accredited site

bed until Soil Contamination Reports are complete and pplete.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B31		If remediation is required, the Soil Contamination Report must be accompanied by a Site Audit Statement(s), prepared by an accredited Site Auditor under the Contaminated Land Management Act 1997, verifying that the disturbed area has been or can be remediated to a standard consistent with the intended land use. Where land is remediated, a final <b>Site Audit</b> <b>Statement(s)</b> must be prepared by an accredited Site Auditor, certifying that the contaminated disturbed areas have been remediated to a standard consistent with the intended land use. The final Site Audit Statement must be submitted to the Secretary and relevant councils prior to operation of the SSI, unless otherwise agreed to by the Secretary.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-operation	N	CDS-JV	
B32		The Proponent must submit a copy of the final <b>Landfill</b> <b>Closure Management Plan</b> to the Secretary prior to the commencement of any closure or construction works at Lot 2 DP 1168612, 10-16 Albert Street, St Peters (the Alexandria Landfill). The Plan must be accompanied by a statement which sets out where the following have been addressed in the Landfill Closure Management Plan:	N	Y	N	N	N	Y	Y	N	Pre-Construction	N	CDS-JV	A Landfill Closure Managem The plan was reviewed and required statement was sub
B32	(a)	the environmental and monitoring framework to be implemented following the cessation of waste disposal and material recycling activities at the Alexandria Landfill and associated waste recycling and transfer facility;												
B32	(b)	existing operational consents and approvals for use of the site as a waste storage and recycling facility;												
B32	(c)	the proposed future use of the site;												
B32	(d)	the closure and stabilisation of the site including details of final capping designs and future landform;												
B32	(e)	a groundwater monitoring bore network, to monitor the movement of groundwater within and immediately outside the cut-off wall;												
B32	(f)	material tracking;												
B32	(g)	occupational health and safety requirements;												
B32	(h)	community engagement processes;												
B32	(i)	specific measures for the management, monitoring and reporting of;												
B32		(i) dust and odour;												
B32		(ii) asbestos;												
B32		(iii) leachate and gases;												
B32		stormwater; and												
B32	(j)	any outstanding clean-up notices, and												
B32	(k)	evidence that the EPA has reviewed the Landfill Closure Management Plan and has no outstanding concerns.												
B32		Where any of the above details have not been included in the final Landfill Closure Management Plan, then the Proponent must provide the details in the statement accompanying the plan required by this condition.												

WestConnex New M5



DRAGADOS



ement Plan has been prepared by Golder Associates Pty Ltd. nd endorsed by the EPA on 27 May 2016. The Plan and submitted to DPE on 31 May 2016.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B33		The Proponent must not destroy, modify or otherwise physically affect any heritage items, including human remains, outside of the SSI footprint. This approval does not allow the Proponent to harm, modify, or otherwise impact human remains uncovered during the construction and operation of the SSI.	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	CDS-JV	Measures to prevent damage of the Construction Heritage include: • heritage items to be shown • delineation of heritage iten • avoiding or monitoring use
B34		The Proponent must salvage sections of the laminated timber from the Rudders Bond Store prior to demolition of the building and assess options for its reuse within the project area at St Peters and maximise its use within the operational facilities. The sections to be salvaged must be determined in consultation with the Heritage Council of NSW (or its delegate). The Proponent must submit to the Secretary written advice from the Heritage Council of NSW that it is satisfied with the proposed level of salvage, prior to the building being demolished.	N	N	N	N	N	Y	N	N	Construction	Y	CDS-JV	This requirement is addresse Management Plan (M5N-ES- The Heritage Council of NSW salvage requirements. OEH ( approach outlined for salvag project (letter dated 19/09/2 CDS-JV will use heritage expe demolition. Items to be reuse incorporated into the Urban
B35		The Proponent must salvage items and materials from heritage items as advised by an independent heritage consultant. The list of items and materials to be salvaged must be developed in <b>consultation</b> with the relevant council(s) and submitted to the Secretary for consideration prior to demolition of any heritage items. How the items are reused in the project is to be detailed in the Urban Design and Landscape Plan required by condition B61. Any residual items and materials are to be made available, through a process to be developed by the Proponent in <b>consultation</b> with the relevant council(s), to property owners within the locality from where the material originated.	N	N	Ν	N	N	N	N	Y	Pre-construction Construction	Y	CDS-JV	The requirement to salvage I Appendix B of the Constructi Reuse of items will be descri Relevant councils are being o reuse of residual items by pr Salvage reports have been su materials to be salvaged on S
B36		Except for necessary stabilisation or maintenance works agreed in consultation with the Secretary, the Proponent must not destroy, modify or otherwise physically affect the Service Garage located at 316 Princes Highway, St Peters	N	Y	Y	N	N	Y	N	N	Pre-construction Construction	N	CDS-JV	The property is being protect Section 6 and Appendix B of PLN-PWD-0006), including no required.
B37		Identified impacts to heritage items and heritage conservation areas must be minimised through both detailed design and construction. The measures for ensuring this are to be detailed in the Construction Heritage Management Plan required by condition D68(c).	N	N	N	Y	Y	Y	Y	Y	Construction	N	CDS-JV	This requirement has been a Section 6.2 and Appendix B o PLN-PWD-0006). All impacts avoided where possible in bo
B38		Prior to conducting acoustic treatment at any heritage items in accordance with this approval, the Proponent must obtain and implement the advice of an appropriately qualified and experienced heritage expert to ensure such work is carried out in a manner sympathetic to the heritage values of the item.	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	CDS-JV	This requirement is addresse Heritage Management Plan ( items will be sympathetic to project's heritage specialists,
B39		Any buildings or structures identified as potential heritage items in the documents listed in conditions A2(b) and A2(c) or identified during detailed design or construction of the SSI, must be dealt with as though they are a locally listed heritage item.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	CDS-JV	Potential heritage items wer considered during any furthe design phase. Section 6.1.4 c PLN-PWD-0006) provides that as locally listed items.
B40		The Proponent must prepare a <b>Heritage Interpretation</b> <b>Plan</b> which identifies and interprets the key heritage values and stories of heritage items and heritage conservation areas impacted by the SSI. The Heritage Interpretation Plan must include, but not be limited to:	N	N	N	N	N	Y	N	Y	Construction	N	CDS-JV	This requirement is addresse Plan (M5N-ES-PLN-PWD-000 and will be submitted to the



DRAGADOS



age to heritage items have been incorporated into Section 6 ge Management Plan (M5N-ES-PLN-PWD-0006). These

wn on Site Environment Plans (SEPs), tems/areas on site,

use of vibratory equipment in proximity to heritage items.

ssed in Section 6.2 of the Construction Heritage ES-PLN-PWD-0006).

SW (OEH as delegate) has been consulted in regards to H (as delegate) have provided their satisfaction with the vage and reuse of items from the Rudders Bond Store for the 9/2016).

xperts to assess and identify elements for salvage during eused within the project area at St Peters will be an Design and Landscape Plan.

ge heritage items/materials is addressed in Section 6.2 and action Heritage Management Plan (M5N-ES-PLN-PWD-0006). acribed in the Urban Design and Landscape Plan. Ing consulted regarding salvage and the process to enable property owners in the respective areas.

n submitted to DP&E that document the list of items and on 8/11/16 and 15/12/16.

ected from indirect damage through measures outlined in of the Construction Heritage Management Plan (M5N-ESg no-go zone fencing and vibration monitoring where

n addressed through detailed design and is also addressed in B of the Construction Heritage Management Plan (M5N-ESts on heritage items and conservation areas have been both the construction and operational footprint and design.

ssed in Section 6 and Appendix B of the Construction an (M5N-ES-PLN-PWD-0006). Acoustic treatments of heritage to their heritage values, and are being guided by the sts, Extent Heritage.

rere considered in the New M5 EIS and will also be ther heritage inspections conducted during the detailed 4 of the Construction Heritage Management Plan (M5N-ESthat all identified potential heritage items will be dealt with

ssed in Section 6 of the Construction Heritage Management 2006). The Heritage Interpretation Plan is being developed the relevant councils and agencies as required.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B40	(a)	a discussion of the key interpretive themes, stories and messages proposed to interpret the history and significance of the affected heritage items and sections of heritage conservation areas including, but not limited to, St Peters Brickpit Geological site, the Alexandra Canal, Terraces at 28-44 and 82 Campbell Street and the Rudders Bond Store; and												
B40	(b)	identification and confirmation of interpretive initiatives implemented to mitigate impacts to archaeological relics, heritage items and conservation areas affected by the SSI.												
B40		The Heritage Interpretation Plan must be prepared in <b>consultation</b> with the NSW Heritage Council and the relevant local councils. A copy of the Plan must be provided to the NSW Heritage Council, the relevant local councils and the Secretary at least six months prior to the operation of the SSI.												
B41		The Proponent must compile photographic records of those parts of the Alexandra Canal to be impacted by the construction of stormwater drainage works both prior to and post the works being undertaken. The photographs taken prior to the works must be included in the Construction Heritage Management Plan required under condition D68(c) and referred to when reinstating the bricks of the canal embankment to ensure that they are correctly replaced. The pre- and post-works photographs must be made available to the Heritage Council of NSW and the Secretary on request.	Ν	N	Ν	Ν	N	N	N	Y	Pre-construction Construction	Ν	CDS-JV	This requirement is addresse Management Plan (M5N-ES- prior to any impact from dra included in an update to the Subsequent records will also reinstatement.
B42		The Proponent shall appoint an appropriately qualified and experienced heritage expert to oversee the removal and reinstatement of sections of the embankment wall of the Alexandra Canal affected by the construction of stormwater drainage points.	N	N	N	N	N	N	N	Y	Construction	N	CDS-JV	This requirement is addresse Management Plan (M5N-ES- Heritage have been engaged Alexandra Canal.
B43		The SSI is to be designed with the objective of improving, on balance, and not adversely impacting on:	Y	Y	Y	Y	Y	Y	Y	Y	Design	N	WCX M5 AT	Current design is being unde including the requirement to arrangements.
B43	(a)	the performance of the road network for all road users, including but not limited to vehicles, freight, public transport and active transport; and												
B43	(b)	existing access arrangements and services for all road users, including consideration of speed and reliability of public transport services.												
B44		The SSI must be designed to not preclude delivery of the King Street Gateway Project. <b>Consultation</b> with the relevant council(s) must be undertaken during detailed design of the SSI to facilitate integration of the two projects. Current traffic modelling and assessment, and the result of the Road Network Performance Review Plan as required in condition E40 where applicable, must be provided to the relevant authority and used in the development of the King Street Gateway Project.	Y	Y	Y	Y	Y	Y	Y	Y	Design	Ν	WCX M5 AT	Consultation with Councils is Network Performance Revie and report on the requireme councils.
B45		Where bus stops are required to be temporarily closed during construction, such closure must not occur until:	N	Ν	N	Y	Y	Y	N	Y	Design	N	CDS-JV	This condition will be implem temporarily closed during co
B45	(a)	for bus stops identified for relocation in the documents referred to in condition A2(b), relocated bus stops are functioning, have similar capacity and are relocated												for implementation of this co

WestConnex New M5



DRAGADOS



essed in Section 6.2 of the Construction Heritage ES-PLN-PWD-0006). Photographic records will be obtained drainage works on Alexandra Canal. These records will be the Construction Heritage Management Plan once obtained. Ilso be obtained as required to ensure appropriate

essed in Section 6.2 of the Construction Heritage ES-PLN-PWD-0006). The project's heritage specialists, Extent ged to provide advice and oversight of works affecting

ndertaken in consideration of all Conditions of Approval, t to improve existing traffic performance and access

Is is ongoing in relation to the detailed design. The Road view Plan M5N-CDS-MNP-100-100-MG-1865 will incorporate ements of this condition including consultation with relevant

lemented when and where bus stops are required to be construction. The Project will liaise with Transport for NSW s condition during the detailed design phase of the project.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
		within a 400 metre walking distance of the existing bus stop (where feasible and reasonable); or												
B45	(b)	for bus stops identified for temporary removal in the documents referred to in condition A2(b), bus stops are identified that are within a 400 metre walking distance of the removed bus stop (where feasible and reasonable), have comparable capacity, and are on the same route and in the same direction of the closed bus stop.												
B45		Where temporary closures of bus stops are required (including relocation or removal), adequate wayfinding signage shall be provided directing commuters to adjacent or relocated bus stops. Any closures or alterations to bus stops during construction are to be undertaken in <b>consultation</b> with Transport for NSW.												
B46		All bus stops temporarily removed or relocated during construction of the SSI must be reinstated in a manner that provides equal or improved capacity and accessibility in <b>consultation</b> with Transport for NSW and relevant councils prior to the commencement of operation of the SSI	N	N	N	Y	Y	Y	N	Y	Prior to operation	N	CDS-JV	Reinstatement of bus stops and the relevant council in a addressed in Section 6 of the PWD-0006).
B47		To improve pedestrian and cycle accessibility, road lane widths, associated medians and intersection geometry are to be minimised, where feasible and reasonable, without compromising safety	Y	Y	Y	Y	Y	Y	Y	Y	Design	Ν	WCX M5 AT	Road Geometry Design Repo condition into consideration Area Shared Paths (Footpath accessibility.
B48		In relation to new or modified local road, parking, pedestrian and cycle infrastructure, the SSI (including ancillary facilities) must be designed to meet relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Engineering Practice	Y	Y	Y	Y	Y	Y	Y	Y	Design	Ν	CDS-JV	RMS are reviewing the detai Design reports for each pack safety guidelines, including A consideration of impacts to t safety and traffic.
B49		An independent <b>Road Safety Audit(s)</b> is to be undertaken by an appropriately qualified and experienced person during detailed design to assess the safety performance of any new or modified local road, parking, pedestrian and cycle infrastructure provided as part of the SSI (including ancillary facilities) to ensure that they meet the requirements of relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Engineering Practice. Audit findings and recommendations must be actioned prior to construction of the relevant infrastructure and must be made available to the Secretary on request.	Y	Y	Y	Y	Y	Y	Y	Y	Design	N	CDS-JV	The independent road safety Independent road safety aud is finalised.
B50		The Proponent must undertake a <b>Pedestrian and</b> <b>Cycleway Network Review</b> . The Review must be prepared and approved by the Secretary within six months from the date of this approval (or as otherwise agreed by the Secretary) to identify pedestrian and cycle facilities that are to be provided by the Proponent as part of the SSI. The Review must be prepared by a suitably qualified and experienced person(s) that has been approved by the Secretary. The Review must be undertaken in consultation with the relevant councils and Bicycle NSW and address the matters raised during consultation. The Review must identify (and consider), but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Design	Y	WCX M5 AT	The Proponent wrote to the the submission date for the extension of the submission prepared in consultation wit provided to Secretary prior t

WestConnex New M5



DRAGADOS



ps will be undertaken in consultation with Transport for NSW n accordance with this condition. This requirement is the Construction Traffic and Access Sub Plan (M5N-ES-PLN-

eports and the Road Design Criteria Report take this ion when optimising road alignments. aths, Bicycle Paths) Design Reports further identify

tailed design packages for the project. ackage or road geometry design address engineering and ng Austroads Guide to Traffic Engineering Practice, with to the existing and future demand, road and pedestrian

fety audits required under this condition have commenced. audits will continue to be undertaken as detailed road design

the Secretary on 14 October 2016 seeking an extension for he Review to 21 December 2016. The Secretary approved the on date on 4 November 2016. The Review is currently being with local councils and Bicycle NSW. The Review will be or to 21 December 2016.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B50	(a)	current and future land use and associated pedestrian and cycle demand and needs;												
B50	(b)	pedestrian and cycle impacts associated with the project;												
B50	(c)	the King Street Gateway Project, including potential Princes Highway traffic calming initiatives;												
B50	(d)	Alexander Canal initiatives;												
B50	(e)	regional and local pedestrian and cycling strategies;												
B50	(f)	pedestrian and cycle safety, accessibility and connectivity, including the public realm;												
B50	(g)	Intersection and signal phasing opportunities to reduce waiting and crossing times for pedestrians and cyclists;												
B50	(h)	provision of upgraded cycle and pedestrian facilities within 1,000 metres of the boundary of the St Peters Interchange, apart from the areas addressed in conditions B62(c) and B64; and												
B50	(i)	concept designs for pedestrian and cycleway infrastructure and implementation timeframes												
B50		The Review is also to consider the delivery of the 'M5 East Green Link' between Kingsgrove and Mascot approved as part of the M5 East Motorway project. The review shall address past constraints to the delivery of this project and options to overcome these constraints.												
B50		The Review must not result in a reduced level of cycle and pedestrian infrastructure as identified in the documents referred to in condition A2, unless required by these conditions.												
B51		A detailed <b>Pedestrian and Cycle Implementation</b> <b>Strategy</b> must be submitted to the Secretary within 12 months of the date of this approval (or as otherwise agreed by the Secretary) and implemented at the commencement of project operations, except as permitted by this approval. The strategy must be prepared in consultation with relevant councils and Bicycle NSW. The Strategy must be consistent with the approved Pedestrian and Cycleway Network Review and include:	N	N	Ν	Y	Y	Y	Y	Y	Design Operation	Y	WCX M5 AT	CDS-JV shall commission a P developed in consultation w shall be provided to the Sect
B51	(a)	pedestrian and cycle engineering and safety standards;												
B51	(b)	a safety audit of existing and proposed pedestrian and cycle facilities to address the above standards (including the shared path audit undertaken for the King Georges Road Interchange Project SSI-6547);												
B51	(c)	details of selected routes and connections to existing local and regional routes;												
B51	(d)	timing and staging of all works;												
B51	(e)	infrastructure details including lighting, safety, security and standards compliance;												
B51	(f)	signage and wayfinding ,measures; and												
B51	(g)	details of associated landscaping works												
B51		The Strategy shall be endorsed by a suitably qualified and experienced person(s) approved by the Secretary.												



DRAGADOS



a Pedestrian and Cycle Implementation Strategy to be in with the relevant councils and Bicycle NSW. The strategy Secretary prior to April 2017.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
		The endorsement shall address each of the listed matters in this condition.												
B51		All identified works arising from this condition are to be implemented by the Proponent.												
B52		Waste generated outside the site must not be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by a licence or waste exemption under the Protection of the Environment Operations Act 1997, if such a licence is required in relation to that waste.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	CDS-JV	This requirement is addresse Sub-Plan (M5N-ES-PLN-PWD Compliance monitoring of th
B53		The reuse and/or recycling of waste materials generated on site must be maximised as far as practicable, to minimise the need for treatment or disposal of those materials off site.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	CDS-JV	This requirement is addresse Plan (M5N-ES-PLN-PWD-000
B54		All liquid and/or non-liquid waste generated on the site must be assessed and classified in accordance with Waste Classification Guidelines (DECCW, 2009) or any superseding documents.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	CDS-JV	This requirement is addresse Plan (M5N-ES-PLN-PWD-000 0044).
B55		All waste materials removed from the SSI site must only be directed to a waste management facility or premises lawfully permitted to accept the materials.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	Ν	CDS-JV	This requirement is address Plan (M5N-ES-PLN-PWD-000 0044).
B56		The handling of spoil generated during construction of the SSI is to be conducted in accordance with the Spoil Management Plan required under condition D51.	N	N	Ν	Ν	N	N	Y	N	Construction	N	CDS-JV	This requirement is addresse 0002). Compliance monitoring of th
B57		Utilities, services and other infrastructure potentially affected by construction and operation must be identified prior to construction to determine requirements for access to, diversion, protection, and/or support. <b>Consultation</b> with the relevant owner and/or provider of services that are likely to be affected by the SSI must be undertaken to make suitable arrangements for access to, diversion, protection, and/or support of the affected infrastructure as required.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	CDS-JV	A number of services that m identified to date. Pre-const consultation with all relevan Ausgrid, and Sydney Water. carried out in consultation a
B58		The Proponent must undertake dilapidation surveys and prepare <b>dilapidation reports</b> on the current condition of buildings, services and utilities identified as at risk from settlement or vibration. The dilapidation surveys and reports must be prepared by a suitably qualified and experienced person(s) and must be provided to the owners of the buildings, services and utilities for review prior to the commencement of potentially impacting construction activities. Subsequent dilapidation surveys must be undertaken to assess damage to the building, services and utilities that may have resulted from the construction of the SSI within three months of the completion of construction in an affected area, unless otherwise approved by the Secretary. The Proponent must carry out rectification at its expense and to the reasonable requirements of the property, services and utility owner(s) within three months of completion of the post-dilapidation surveys unless otherwise agreed by the owner of the affected building, service or utility.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	Ν	CDS-JV	Dilapidation surveys have co out in accordance with this o surveys have been prioritise The Project is on schedule to works that may cause settler



DRAGADOS



essed in Section 6 of the Construction Waste and Resource WD-0008). f this condition will be ongoing during Construction.

essed in Sections 1.2 and 6 of the Waste and Resource Sub-0008).

essed in Section 6 of Construction Waste and Resource Sub-2008) and the Manage Waste Procedure (M5N-ES-PRC-PWD-

essed in Section 6 of Construction Waste and Resource Sub-2008) and the Manage Waste Procedure (M5N-ES-PRC-PWD-

essed in the Spoil Management Plan (M5N-PM-PLN-PWD-

f this condition will be ongoing during Construction.

t may be affected by construction and operation have been nstruction utility location works have been carried out in vant utility providers. These include Optus, Jemena, Telstra, er. All relocation and protection works shall continue to be n and via approvals from relevant stakeholders.

commenced for the Project and will continue to be carried is condition. Properties and assets requiring dilapidation ised to match the construction program.

e to provide reports to all property and asset owners prior to tlement or vibration.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B59		Upon determining the access route(s) for heavy and oversized vehicles associated with the construction of the SSI and site establishment works, a suitably qualified and experienced independent expert must prepare a <b>Local Road Dilapidation Report</b> for those local roads within the control of the relevant councils that would be utilised. The Local Road Dilapidation Report must assess the current condition of the road and describe mechanisms to restore any damage that may result due to its use by traffic and transport related to the construction of the SSI, including site establishment works. The Local Road Dilapidation Report must be submitted to the relevant council(s) for review at least two weeks prior to the use of the local roads by heavy and/or over-sized vehicles associated with the construction to the SSI and site establishment works. A subsequent Local Road Dilapidation Report must be prepared within four weeks of the completion of construction to assess any damage to the road that may have occurred as a result of the use of the roads by heavy and/or over-sized vehicles associated with the construction of the SSI and site establishment works. Measures undertaken to restore or reinstate roads affected by the SSI must be undertaken in accordance with the reasonable requirements of the relevant council(s), including agreed timing, and at the full expense of the Proponent. <i>Note:</i> <i>Nothing in these conditions restricts the Proponent</i> <i>commencing adjustments and minor upgrades to the</i>	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	CDS-JV	Local Road dilapidation surve The Local Road Dilapidation F on 13 May 2016.
		existing road network to cater for construction traffic and installation of temporary project signage prior to the commencement of construction.												
B60		Within three months of the date of this approval, unless otherwise agreed by the Secretary, the Proponent must establish an Urban Design Review Panel (UDRP) to provide advice and guidance during detailed design and the preparation of the Urban Design and Landscape Plan	N	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	Ν	WCX M5 AT	WCX M5 AT has established a M5 AT and CDS-JV as well as times: 1/10/15, 4/12/15, 15/ Discussions have been held b constitution/membership of
B60		The UDRP is to provide advice in relation to architecture, heritage values, urban and landscape design and artistic aspects of the SSI and must:												arranged by WCX M5 AT with
B60	(a)	be comprised of-												
B60		(i) representatives from the Proponent, including the Head of Urban Design,												
B60		<ul> <li>(ii) where the works affect places of heritage significance, an independent heritage architect,</li> </ul>												
B60		(iii) two independent architects one of which is a landscape architect,												
B60		(iv) representatives from the relevant council(s),												
B60		<ul> <li>(v) a maximum of two experts, relevant to the works being considered, as selected by the Proponent, where relevant, and</li> </ul>												
B60		the NSW Government Architect as Chair;												
B60	(b)	meet at least four times a year, or as otherwise agreed by the UDRP;												



DRAGADOS



urveys have been completed for each council area. on Reports for each council we provided to the Local Councils

ed an UDRP, consisting of representatives from RMS, WCX I as two independent architects. The Panel has met four 15/04/16 and 13/09/16.

ld between the proponent and DP&E regarding of the UDRP. Additional meetings are currently being with an expanded membership.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B60	(c)	review and provide advice on the detailed design of the SSI and final review of the Urban Design and Landscape Plan (required by condition B61); and												
B60	(d)	keep a record of meeting minutes and a schedule of action items arising from the meeting,												
B60		The Proponent may establish a separate UDRP for each precinct												
B61		Prior to commencement of permanent built surface works and/or landscaping, or as otherwise agreed by the Secretary, an <b>Urban Design and Landscape Plan (UDLP)</b> must be prepared. The UDLP must be prepared by a suitably qualified and experienced person(s), in <b>consultation</b> with the relevant council(s) and community, Heritage Council of NSW (or delegate), and the UDRP (condition B60). The UDLP must be approved by the Secretary. The UDLP must present an integrated urban and landscape design for the SSI, and must include, but not be limited to:	N	N	N	N	Y	Y	Y	Y	Prior to permanent works	Y	CDS-JV	Hassel has been engaged as In accordance with this com Secretary prior to the comm and/or landscaping or as ot
B61	(a)	identification of design objectives, principles and standards based on –												
B61	(a)	(i) local environmental and heritage values												
B61	(a)	(ii) urban design context												
B61	(a)	(iii) sustainable design and maintenance												
B61	(a)	<ul><li>(iv) community safety, amenity and privacy, including</li><li>'safer by design' principles where relevant</li></ul>												
B61	(a)	(v) relevant design standards and guidelines,												
B61	(a)	<ul><li>(vi) prioritising the visual amenity and values of adjoining receivers over the road user experience</li></ul>												
B61	(a)	(vii) minimising the footprint of the project (including at operational facilities), and												
B61	(a)	the urban design principles outlined in the documents referred to in conditions A2												
B61	(b)	landscaping and building design opportunities to mitigate the visual impacts of the operational fixed facilities (including the ventilation facilities, emergency smoke extraction outlets and the Motorway Operations Complex) in accordance with the following design considerations												
B61	(c)	details on the location of existing vegetation and proposed landscaping (including use of endemic and advanced tree species where practicable). Details of species to be replanted/revegetated must be provided, including their appropriateness to the area and habitat for threatened species. Where feasible and reasonable, vegetation to be removed must be reused;												
B61	(d)	a description of disturbed areas (including compounds) and details of the strategies to progressively rehabilitate, regenerate and/ or revegetate these areas;												
B61	(e)	a description of the SSI design features, including the graphics such as sections, perspective views and sketches for key elements of the SSI;												

WestConnex New M5



DRAGADOS



d as the Project urban design and landscape designers.

condition, the UDLP will be submitted for the approval of the immencement of the relevant stage for permanent built works s otherwise agreed.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B61	(f)	information on the reuse of heritage items and materials (condition B34 and B35)												
B61	(g)	detail safe public access to the exposed sections of the former St Peters Brickpit Geological Site unless demonstrated to be impracticable for safety reasons;.												
B61	(h)	an assessment of the location, design and impacts of operational lighting associated with the SSI and measures proposed to minimise lighting impacts;												
B61	(i)	details of where and how recommendations from the UDRP have been incorporated into the plan												
B61	(j)	the Pedestrian and Cycle Implementation Strategy (condition B51);												
B61	(k)	the sub-plans identified in conditions B62(a)-(f);												
B61	(I)	the timing for implementation of access, landscaping and open space initiatives;												
B61	(m)	monitoring and maintenance procedures for the 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												
B61	(n)	evidence of consultation with the relevant councils and the community on the proposed urban design and landscape measures, prior to finalisation of the Plan												
B61		The UDLP must be implemented within one year of operation unless otherwise required by these conditions												
B61		Note:												
B61		• The UDLP may be submitted in stages to suit a staged construction program of the SSI or in stages to address the built elements of the SSI and landscaping aspects of the SSI.												
B62		The Urban Design and Landscape Plan must include the following Sub-plans:												
B62	(a)	a <b>Campbell Road Crossing Sub-plan</b> to assist in the management of access, land use, community amenity and open space impacts associated with the SSI. The Plan must be prepared and approved by the Secretary within twelve months of the date of this approval, unless otherwise agreed by the Secretary. The Plan must be prepared in <b>consultation</b> with the relevant councils and the UDRP, and must address the matters raised during consultation.	Ν	Ν	N	N	Ν	Ν	Ν	Y	Within twelve months of the date of this approval	Y	WCX M5 AT CDS-JV	The Campbell Road Crossing the Secretary by March 201
B62	(a)	The Plan must identify and facilitate the construction and establishment of a new land bridge over Campbell Road that is connected to, and contiguous with, the southern end of the existing Sydney Park and the proposed open space area (including active recreation facilities) to the north of the St Peters Interchange. The land bridge is to be designed to satisfy the following objectives -												
B62	(a)	(i) to enrich and enhance the functionality, integration, recreational value and quality of Sydney Park												

WestConnex New M5



DRAGADOS



ssing Sub-plan will be developed and submitted for approval of 2017.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B62	(a)	<ul> <li>to provide a high quality park that is landscaped and provides a continuous flow of open space over Campbell Road</li> </ul>												
B62	(a)	(iii) to create a new public open space, passive recreation area and garden for the community												
B62	(a)	(iv) to address the severance created by an expanded Campbell Road and to enhance connectivity between existing and proposed open space that enhances the efficiency and resilience of the southern portion of Sydney Park and the new active recreation areas, and												
B62	(a)	to improve and contribute to the quality and safety of the pedestrian and cyclist environment, including consistency with the Pedestrian and Cycleway Network Review required by condition B50												
B62	(a)	The following parameters are to be incorporated and complied with in the design and delivery of the land bridge:												
B62	(a)	(i) be designed to minimise the amenity impacts on adjacent residential development (including visual and acoustic privacy and overshadowing impacts),												
B62	(a)	(ii) be located at least 35 metres to the west of No. 2 Campbell Road,												
B62	(a)	(iii) be of a width that addresses the objectives of this Plan but be no less than 20 metres (at any point), as measured parallel to Campbell Road,												
B62	(a)	<ul> <li>(iv) provide high quality access, including the integration of cycling and pedestrian</li> </ul>												
B62	(a)	<ul> <li>(v) facilities offering continuous paths of travel, over Campbell Road, including consistency with the Pedestrian and Cycleway Network Review (condition 850</li> </ul>												
B62	(a)	<ul> <li>(vi) considers the provision of pedestrian or cycle access along Campbell Road</li> </ul>												
B62	(a)	(vii) be of a depth to facilitate the planting across the width and depth of the bridge of a diverse range of vegetation (including species design and maturity) consistent with existing and proposed Sydney Park plantings, and												
B62	(a)	(viii) the provision of high quality design and durable park infrastructure, furniture and lighting that meets the relevant council's requirements												
B62	(a)	The Plan must be consistent with and integrate with the requirements of the UDLP (condition B61) and the St Peters Interchange Recreational Area Sub-plan (condition B62 (b))												
B62	(a)	This Plan must be fully implemented within four years of the commencement of operations, or as otherwise agreed by the Secretary.												

WestConnex New M5



DRAGADOS



Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B62	(b)	a <b>St Peters Interchange Recreational Area Sub-plan</b> to maximise the amount of open space available for the provision of active recreation areas and multifunctional and adaptable active recreation support facilities on the St Peters interchange site {located to the south of Campbell Road). The Plan must be prepared and approved by the Secretary within 12 months of the date of this approval, unless otherwise agreed by the Secretary.	N	N	N	N	N	Y	Y	N	Within twelve months of the date of this approval	Y	WCX M5 AT CDS-JV	The St Peters Interchange Re for approval of the Secretary
B62	(b)	The Plan must be prepared by an experienced and qualified person(s) in the design and provision of active recreation facilities and in <b>consultation</b> with the relevant councils (including adjoining councils) and the community. The Plan must detail the construction, timing and responsibility for the delivery of active recreation facilities (including, but not limited to, sporting fields) and take into account the following considerations:												
B62	(b)	(i) maximising the availability of active recreational open space												
B62	(b)	(ii) All relevant policies, guidelines and plans												
B62	(b)	(iii) The type of facilities to be provided taking into account the current and future local community recreation preferences and needs												
B62	(b)	(iv) The future use and rationalisation of Albert Street to improve the provision and servicing of open space, including consideration of alternate property access and shared zone treatments												
B62	(b)	<ul> <li>(v) Provision of safe and efficient pedestrian and cyclist access connectivity, including integration with the Pedestrian and Cycleway Network Review (condition 850), and</li> </ul>												
B62	(b)	Integration with Sydney Park Plan of Management												
B62	(b)	The Plan must be consistent with and integrate with the requirements of the UDLP and the Sydney Park Enhancement Sub-plan.												
B62	(b)	Within four years of the commencement of operations, unless otherwise agreed by the Secretary, the Proponent must implement the sub-plan including providing a flat grassed area to be able to be converted into sporting fields and car parking (should a demand be demonstrated).												
B62	(c)	A <b>Campbell Street Green Link Sub-plan</b> to provide an enhanced and unified landscaped green link between Sydney Park, Simpson Park and Camdenville Park. The objective of the green link is to facilitate a more legible and navigable open space network by providing a high quality open space link to the northern side of Campbell Street between the three parks.	N	N	N	N	N	Y	Y	Y	Prior to permanent Surface works	Y	CDS-JV	The Campbell Street Green L approval of the Secretary as Plan. This sub-plan will be submitt in the relevant areas (ie Stag
B62	(c)	The Plan must be prepared by an experienced and qualified person(s) in the design and provision of open space and in <b>consultation</b> with the relevant councils and the community, and is to take into account the following considerations:												

DRAGADOS



SAMSUNG C&T

e Recreational Area Sub-plan will be developed and submitted tary by March 2017.

en Link Sub-plan will be developed and submitted for as a supporting sub plan of the Urban Design and Landscape

nitted prior to the commencement of permanent built works itages 2 and 4).

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B62	(c)	<ul> <li>(i) The provision of a consistent and coherent landscaping theme between Sydney park and Camdenville Park;</li> </ul>												
B62	(c)	(ii) the establishment of local street conditions,												
B62	(c)	(iii) the provision of enhanced footpath and shared path widths and the separation of walking and cycling paths from the roadway with planted verges or on street car parking,												
B62	(c)	(iv) the provision of crossings along the length of the green link, and												
B62	(c)	<ul> <li>(v) reviewing on-street car parking and proposed off- street parking on the southern side of Campbell Road to maximise landscaping, pedestrian and cycling facilities</li> </ul>												
B62	(c)	The Plan must be consistent with and integrate with the requirements of the UDLP and the Sydney Park Enhancement Sub-plan. All facilities must be provided within 12 months of operation												
B62	(d)	a <b>M5 Linear Park Enhancement Sub-plan</b> , for open space bordered by Bexley Road, Bexley, King Georges Road, Beverley Hills, adjoining the M5 Motorway, to connect and enhance the parkland and to offset amenity and open space impacts. The Plan must be prepared and implemented in <b>consultation</b> with relevant Councils, the community and the UDRP and must identify (and consider), but not be limited to:	N	N	N	Y	Y	N	Y	N	Prior to permanent surface works	Y	WCX M5 AT CDS-JV	The M5 Linear Park Enhance approval of the Secretary as Plan. This sub-plan will be submitt in the relevant areas (ie Stag
B62	(d)	(i) identification of park users and their needs,												
B62	(d)	(ii) amenity of communities adjoining the park,												
B62	(d)	(iii) outcomes of consultation and how issues raised have been considered,												
B62	(d)	measures to enhance active uses and the recreational value of the park (including												
B62	(d)	(iv) consideration of active recreational and fitness facilities), and												
B62	(d)	(v) measures to activate and enhance the surveillance of the Kindilan Underpass (including consideration of sight lines, splayed entrances, lighting, public art, and recreational facilities												
B62	(d)	Notwithstanding the above, the Kindilan underpass must include CCTV surveillance that meets the requirements of NSW Police and the relevant council												
B62	(e)	an <b>Alexandra Canal Sub-plan</b> which details the design and integration of the bridges over the Alexandra Canal, including a Heritage Impact Assessment addressing any heritage impacts to the canal and its setting taking into account future and current accessibility plans for the Canal and the heritage sensitivity of the setting as set out in the Alexandra Canal Heritage Conservation Plan.	N	N	N	N	N	N	N	Y	Prior to permanent built surface works	Y	CDS-JV	The Alexandra Canal Sub-pla Secretary as a supporting sul This sub-plan will be submitt in the relevant areas (ie Stag
B62	(f)	a Noise Barrier Location and Design Sub-plan which includes	N	N	N	Y	Y	Y	N	Y	Prior to permanent built surface works	Y	CDS-JV	The Noise Barrier Location a approval of the Secretary as
B62	(f)	<ul> <li>(i) identification and confirmation of all permanent noise barrier locations associated with the SSI including new, relocated or modified barriers;</li> </ul>												Plan. This sub-plan will be submitt built works in the relevant a



DRAGADOS



ncement Sub-plan will be developed and submitted for as a supporting sub plan of the Urban Design and Landscape

nitted prior to the commencement of permanent built works tage 2).

plan will be developed and submitted for approval of the sub plan of the Urban Design and Landscape Plan. nitted prior to the commencement of permanent built works tage 4).

n and Design Sub-plan will be developed and submitted for as a supporting sub plan of the Urban Design and Landscape

nitted in stages prior to the commencement of permanent t area, ie Stages 2 and 4.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B62	(f)	<ul> <li>the consultation and decision making process for all new, relocated or modified permanent noise barriers associated with the SSI,</li> </ul>												
B62	(f)	<ul> <li>(iii) assessment of the potential impacts of the permanent noise barriers including visual amenity, overshadowing and connectivity and community cohesion,</li> </ul>												
B62	(f)	<ul> <li>(iv) consideration of safer safety by design principles, the WestConnex Urban Design Framework, RMS Design Guidelines</li> </ul>												
B62	(f)	<ul> <li>(v) adjacent property owner concerns and preferences regarding barrier design and location, and</li> </ul>												
B62	(f)	<ul> <li>(vi) justification for the final design of new, relocated or modified permanent barriers.</li> </ul>												
B62	(f)	The permanent barrier design options must be developed in <b>consultation</b> with the UDRP and presented to landowners adjacent to the barriers for consultation prior to the adoption of a final design.												
B63		The SSI must be designed to retain as many trees as possible and provide a net increase in the number of replacement trees. The Proponent must commission an independent experienced and suitably qualified arborist, to prepare a comprehensive <b>Tree Report(s)</b> prior to removing any trees on the periphery and/or outside the construction footprint as identified in the figures in Section 6 of the document referred to in condition A2(b), including any tree(s) removed along Euston Road. The Tree Report may be prepared for the entire SSI or separate reports may be prepared for individual areas where trees are required to be removed. The report(s) must identify the impacts of the SSI on trees and vegetation within and adjacent to the construction footprint. The report(s) must include:	Y	Y	Y	Y	Y	Y	Y	Y	Design Pre-construction Construction	Y	CDS-JV	Tree Reports are being prog prior to the relevant works. Any required replacement t boundary in consultation wi condition. Final site rehabili Landscape Plan (M5N-ES-PL
B63	(a)	a visual tree assessment with inputs from the design, landscape architect, construction team;												
B63	(b)	consideration of all options to amend the SSI where a tree has been identified for removal, including realignment, relocation of services, redesign of or relocation of ancillary components (such as substations, fencing, etc.) and reduction of standard offsets to underground services; and												
B63	(c)	measures to avoid the removal of trees or minimise damage to existing trees and is to ensure the health and stability of those trees to be protected. This includes details of any proposed canopy or root pruning, excavation works, site controls on waste disposal, vehicular access, storage of materials and protection of public utilities.												



DRAGADOS



rogressively submitted to the Secretary, DPE, for approval ks.

nt trees will be planted within, or in proximity to, the project with the relevant council and in accordance with this bilitation plans will be described in the Urban Design and G-PLN-PWD-0009) once finalised.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B63		In the event that trees are to be removed, then replacement trees are to be planted within, or in close proximity to, the SSI boundary, including along Euston Road where feasible and reasonable The location of the trees must be determined in <b>consultation</b> with the relevant council(s). The replacement trees are to have a minimum pot size of 75 litres. A copy of the report(s) must be submitted to the Secretary for approval prior to the removal, damage and/or pruning of any trees, including those affected by site establishment works. All recommendations of the report must be implemented by the Proponent, unless otherwise agreed by the Secretary												
B64		The Proponent must provide a cycleway along Euston Road consistent with proposal in the document referred to in condition A2(b) and must replace the perimeter plantings along the Euston Road frontage of Sydney Park commensurate with type of plantings impacted by the SSI. Replacement plantings must be in accordance with the pot sizes specified in condition B63.	N	N	N	N	N	N	N	Y	Design Construction	N	CDS-JV	A cycleway will be provided in the EIS. Rehabilitation will cycleway and landscaping w (M5N-ES-PLN-PWD-0009) or
B65		Existing residential properties (and approved residential developments) that are affected by overshadowing from the final detailed design of the SSI (including any noise mitigation measures) are to receive a minimum of three hours of direct sunlight in habitable rooms and in at least 50% of the principal private open space area between 9:00 am and 3:00 pm on 21 June. Such properties must be identified for further consideration by the Proponent in a <b>Solar Access and Overshadowing Report</b> which addresses compliance with these requirements.	N	Ν	N	Y	Y	Y	Y	Y	Within 12 months of approval or prior to construction of structures that may cause overshadowing	N	CDS-JV	A Solar Access and Overshad be lodged on or before 20 A
B65		The Solar Access and Overshadowing Report must be submitted to the Secretary within 12 months of the SSI approval or prior to the construction of any structures that may cause overshadowing of residential premises, whichever is the sooner and must include:												
B65	(a)	identification of potentially affected properties												
B65	(b)	assessment of the detailed design's compliance at each property, informed by:												
B65	(b)	<ul> <li>a review of the habitable rooms within structures,</li> </ul>												
B65	(b)	(ii) the size and nature of private open spaces, and												
B65	(b)	shadow diagrams in plan and elevation at hourly intervals between 9.00 am and 3.00pm on 21 June; and												
B65	(c)	a consultation plan to detail how potential impacts and mitigation measures will be discussed and negotiated with potentially affected property owners in the event that compliance with this condition is not achieved.												
B65		Where existing residential development currently receives less than the required amount of solar access, existing access to sunlight should not be unreasonably reduced.												
B65		Where affected properties include dwellings held under strata or community title, this condition must be interpreted in relation to individual units within those properties												

#### WestConnex New M5



DRAGADOS



ed along Euston Road consistent with the proposal provided will be in accordance with CoA B63. The final design of the g will be described in the Urban Design and Landscape Plan once finalised.

nadowing Report will be prepared for these works, and will ) April 2017.

Re	f Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B6	5	No later than 12 months after the commencement of construction, unless otherwise agreed to by the Secretary, the Proponent must prepare a <b>Community</b> <b>and Social Management Plan</b> for precincts directly impacted by the SSI. The Community and Social Management Plan must be prepared by a suitably qualified and experienced person(s) and in <b>consultation</b> with relevant council(s) and the community and submitted to the Secretary for approval. The Community and Social Management Plan must include but is not limited to:	Ν	Ν	N	Y	Y	Y	Y	Y	Within 12 months of commencement of construction	Y	WCX M5 AT	A Community and Social Ma relevant councils and be loo
B6	5 (a)	identification of the social impacts of the SSI, including cumulative impacts resulting from the various stages of the SSI (including construction and operation) in directly affected precincts including –												
B6	5 (a)	(i) a refined precinct-based spatial analysis based on representative local communities and stakeholders impacted by the SSI,												
B6	5 (a)	(ii) at what stage the identified impact is likely to occur												
B6	5 (a)	(iii) identification of stakeholders and communities directly affected by each identified impact												
B6	5 (a)	(iv) assessment of the identified social impacts including type, probability and consequence												
В6	5 (a)	(v) details of management and mitigation measures, including responsibilities for the implementation of each measure, and an assessment of the likely effectiveness of the measures												
B6	5 (a)	(vi) identification of access and connectivity enhancements or new provisions to assist in mitigating community cohesion impacts directly resulting from the SSI including, but not necessarily limited to, community cohesion, public transport and social facility accessibility, connectivity and accessibility to goods and services,												
B6	5 (a)	(vii) mechanisms for monitoring social impacts and reviewing the effectiveness of mitigation measures												
B6	5 (a)	(viii) mechanisms for the reporting of social impacts during construction and operation of the SSI, and												
B6	5 (a)	mechanisms for ongoing consultation with communities and key stakeholders; and												
B6	5 (b)	a Community Cohesion Program to enhance community cohesion in precincts directly affected by the SSI through initiatives including, but not limited to -											(iii) CDS-JV	
		(i) enhancement of open space and recreation areas,												
		(ii) active community involvement and engagement,												
		(iii) provision or facilitation of cycling facilities within Camdenville Park, in consultation with the relevant council,												
		(iv) support of community initiatives and programs, and												
		(v) provision of grants to local community groups.							ļ					



DRAGADOS

l Management Plan will be prepared in consultation with lodged on or before July 2017.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
B66		The Proponent must maintain and implement the Community and Social Management Plan throughout construction and for the first three years of operation of the SSI.												
B67		The Proponent must prepare a <b>Residual Land</b> <b>Management Plan</b> in <b>consultation</b> with the relevant councils. The Residual Land Management Plan must be submitted to the Secretary at least 12 months prior to the commencement of operation of the SSI. The Residual Land Management Plan must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Prior to Operation	N	WCX M5 AT CDS-JV	A Residual Land Managemen councils, and will be lodged p
B67	(a)	identification and illustration on a map, of all residual land following construction of the SSI, including the physical location, land use characteristics, size and adjacent land uses;												
B67	(b)	identification of proposed uses for the each piece of residual land with consideration given to the provision of additional community uses, public recreation uses and/or affordable or social housing and the justification for the uses chosen;												
B67	(c)	time frames for implementing the various components of the Residual Management Plan												
B68		Residual land that is to be used for a public use and/or transferred to a public authority is to be in a condition suitable for the end use that does not incur additional cost to the public authority to reasonably rehabilitate or remediate the land for the future development identified in the Residual Land Management Plan	N	N	N	Y	Y	Y	Y	Y	Construction Operation	N	WCX M5 AT	This condition is noted by CD Residual Land Management F
B69		The Proponent must ensure that all residual land set aside for open space uses in accordance with condition B67 be available to the relevant council within 12 months of the completion of construction, unless otherwise agreed to by the Secretary	N	N	N	N	N	N	N	N	Operation	N	WCX M5 AT	This condition is noted by CD Residual Land Management F
B70		Prior to operations, the Proponent must assist the City of Sydney Council to update and amend the Sydney Park Plan of Management to reflect the changes to the park as a result of the project. This must include investigations into enhancing Sydney Park through maximising the open space area at the eastern edge of Sydney Park, such as future integration of privately owned land along the Euston Road frontage	N	N	N	N	N	N	N	N	Prior to Operation	N	WCX M5 AT	This condition is noted. The P of Management prior to oper
B71		The Canterbury Golf Course golf ball deflection fence must meet the height and width requirements of Canterbury Council. Property adjustments at the golf course must not introduce additional ongoing maintenance requirements for Canterbury Council	N	N	N	Y	N	N	N	N	Construction Operation	N	WCX M5 AT RMS CDS-JV	CDS-JV notes this condition a design of the fence.



DRAGADOS



nent Plan will be prepared in consultation with relevant ed prior to the commencement of operation.

CDS-JV and will be considered during development of the ent Plan.

CDS-JV and will be considered during development of the ent Plan.

he Proponent will assist in the update of the Sydney Park Plan operations.

n and will consult with Canterbury Council in regards to the

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
B72		The Proponent must design and construct the SSI with the objective of minimising impacts to, and interference with, third party property and infrastructure and that such infrastructure and property is protected during construction and operation. Any damage caused to property as a result of the SSI must be rectified or the landowner compensated, within a timeframe defined in the Construction Environmental Management Plan	Y	Y	Y	Y	Y	Y	Υ	Y	Construction	N	CDS-JV	Impacts to third party infras damage or removal of prope compensated within a reaso Pre-construction dilapidatio B58 and subsequent post-co damage. Complaints regarding prope Construction Complaints Ma Strategy (M5N-CS-PLN-PWD
B73		The Proponent must construct and operate the SSI with the objective of minimising light spillage to residential properties and be generally consistent with the requirements of Australian Standard 4282-1997 Control of the obtrusive effects of outdoor lighting. Notwithstanding, the Proponent must provide mitigation measures to manage any residual night lighting impacts to protect properties adjoining or adjacent to the project, in <b>consultation</b> with affected landowners	Y	Y	Y	Y	Y	Y	Y	Y	Construction Operation	N	CDS-JV	Light spillage will be minimis the obtrusive effects of outo This construction componer Appendix B of the Ancillary I operational component of the for the operational facilities
B74		The SSI must be designed and constructed to achieve an excellent 'Design' and 'As built' rating under the Infrastructure Sustainability Council of Australia infrastructure rating tool.	Y	Y	Y	Y	Y	Y	Y	Y	Construction Operation	Ν	CDS-JV	CDS-JV are progressing desig an excellent 'design' and 'as The collation of information Sustainability Plan will conti project.
B75		Opportunities to reduce operational greenhouse gas emissions must be investigated during detailed design. The sustainability initiatives identified must be regularly reviewed, updated and implemented throughout the design development and construction phase, and annually during the operational phases.	N	N	N	Y	Y	Y	Y	Y	Design Construction	N	CDS-JV	Opportunities to reduce the been identified and investig process. The project initiatives regist workshops, meetings, traini status of sustainability initia
C1		Prior to the commencement of construction, or as otherwise agreed by the Secretary, the Proponent must prepare and implement a Community Communication Strategy. The Community Communication Strategy must be submitted to the Secretary for approval. The Community Communication Strategy must provide mechanisms to facilitate communication between the Proponent (and its contractor(s)), the Environmental Representative (refer condition D1), the relevant council(s) and community stakeholders (particularly adjoining landowners) on the design and construction environmental management of the SSI. The Community Communication Strategy must include, but not be limited to	Ν	Ν	Ν	Y	Y	Y	Y	Y	Pre-Construction	Y	CDS-JV	A Community Communication the Secretary on 13 May 203



DRAGADO



rastructure will be avoided during construction of the SSI. Any operty will be replaced or repaired, or the landowner asonable timeframe.

tion surveys are being undertaken in accordance with CoA -construction surveys will be undertaken to assess any

perty damage will be managed in accordance with the Management System and the Community Communication VD-0008).

mised and generally consistent with AS 4282-1997 'Control of utdoor lighting'.

nent of this condition is addressed in Section 6.12 and ry Facilities Management Plan (M5N-ES-PLN-PWD-0026). The f this condition is being addressed through detailed design ies.

esign and construction of the project with the aim to achieve 'as-built' rating under ISCA.

on to meet the requirements in the Project Delivery Phase ntinue through the duration of the construction of the

he operational greenhouse gas emissions have continually tigated and are being identified through the detailed design

ister will be regularly reviewed and updated following ining and awareness campaigns to maintain an accurate tiatives.

ation Strategy (M5N-CS-PLN-PWD-0008) was submitted to 2016 for approval. DPE approved the Strategy on 27/07/16.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
C1	(a)	identification of stakeholders to be consulted as part of the Community Communication Strategy, including affected and adjoining landowners, key community and business groups, and community and social service organisations												
C1	(b)	procedures and mechanisms for the regular distribution of accessible information to community stakeholders on construction progress and matters associated with environmental management, including provision of information in appropriate community languages;												
C1	(c)	the formation of community-based forums that focus on key environmental management issues for the SSI. The Community Communication Strategy must provide detail on the structure, scope, objectives and frequency of the community-based forums;												
C1	(d)	procedures and mechanisms through which the community stakeholders can discuss or provide feedback to the Proponent and/or Environmental Representative in relation to the environmental management and delivery of the SSI;												
C1	(e)	procedures and mechanisms through which the Proponent can respond to enquiries or feedback from the community stakeholders in relation to the environmental management and delivery of the SSI;												
C1	(f)	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 SSI. This may include the use of a suitably qualified and experienced independent mediator; and												
C1	(g)	procedures and mechanisms to manage the ongoing provision of services for the WestConnex Acquisition Assistance Line, as required by condition C2, and procedures for the notification of the contact details for this assistance line to relocated persons												
C1		Issues that must be addressed through the Community Communication Strategy include (but are not limited to):												
C1	(a)	Traffic management (including property access, pedestrian access);												
C1	(b)	Air quality												
C1	(c)	Heritage matters												
C1	(d)	Landscaping and urban design matters												
C1	(e)	Construction staging, hours and activities												
C1	(f)	Noise, vibration mitigation and management, and												
C1	(g)	Water quality, hydrology and flooding matetrs												
C1		The Proponent must maintain and implement the Community Communication Strategy throughout construction of the SSI.												

WestConnex New M5



DRAGADOS



Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
C2		The Proponent must maintain and operate a toll-free WestConnex Acquisition Assistance Line for a period of up to six months following completion of the final acquisition required for the SSI, unless otherwise agreed by the Secretary. The WestConnex Acquisition Assistance Line must provide an ongoing dispute resolution, counselling program and contact information to relevant services for all relocated persons. The WestConnex Acquisition Assistance Line must also provide first language support for households with English as a second language. The management of the assistance line is to be outlined within the Community Communication Strategy as required by condition C1 and is to be maintained and operated separately from the standard complaints and enquiries procedure. The Proponent must provide all relevant contact details for the WestConnex Acquisition Assistance Line to relocated persons prior to the commencement of construction.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	WCX M5 AT	The services available to supp property acquisition include: • The WestConnex Assist courservice provided by WCX M5 counselling service and is still • Provision of an independen relocation • Community relations suppor requests and to offer a transler language • RMS have contacted reside properties to be acquired for compensation (where application • Residents who are having the M5 project (e.g. tenants) hav available support services.
C3		Prior to the commencement of site establishment works, or as otherwise agreed by the Secretary, the Proponent must ensure that the following are available for community enquiries and complaints for the duration of construction:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-establishment	N	CDS-JV WCX M5 AT	WCX M5 AT established the c and enquiries during the prep Project, fulfilling the requiren mechanisms are being utilise phases of the project to ensu and stakeholders.
С3	(a)	a toll-free 24 hour telephone number(s) on which complaints and enquiries about the SSI may be registered;												The telephone number (1800 been published in newspaper The information is available of www.westconnex.com.au
С3	(b)	a postal address to which written complaints and enquires may be sent;												http://www.westconnex.com I
С3	(c)	an email address to which electronic complaints and enquiries may be transmitted;												
С3	(d)	a mediation system for complaints unable to be resolved; and												
С3	(e)	a mechanism for community members to make enquiries in common community languages of the area												
C3		The telephone number, the postal address and the email address must be published in newspaper(s) circulating in the local area including in newspapers of culturally and linguistically diverse communities affected by the SSI prior to the commencement of construction and prior to the commencement of operation. This information must also be provided on the website (or dedicated pages) required by this approval and available in common community languages.												



DRAGADO



support residents who are being relocated as a result of de:

counselling service - 'Converge' – which is the counselling M5 AT Pty Ltd. It is a free, independent and confidential still available for use for relocated persons dent service to vulnerable households to assist with their

pport to respond to community issues, concerns and anslation service to households for whom English is a second

sidential and commercial tenants who are currently renting for the project, to discuss timeframes for acquisition and plicable).

g their properties acquired or are relocating due the New nave been advised to contact WestConnex directly to discuss

he community communications information for complaints preparation of the Environmental Impact Statement for the irements of this condition. These same consultation lised by CDS-JV during the pre-construction and construction nsure continuity of contact information for the community

800 660 248), the postal address and the email address have apers during pre-construction phase. le on the project website, being:

com.au/explore\_the\_route/stage\_2/new\_m5\_resources.htm

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
C4		Prior to the commencement of site establishment works, or as otherwise agreed by the Secretary, the Proponent must prepare and implement a Construction Complaints Management System consistent with AS/NZS 10002:2014 Guidelines for Complaint management in Organisations and maintain the Construction Complaints Management System for the duration of construction and up to 12 months following completion of construction of the SSI. Information on all complaints received, including the means by which they were addressed and whether resolution was reached, with or without mediation, must be maintained in a complaints register and included in the construction compliance reports required by this approval. The information contained within the Construction Complaints Management System must be made available to the Secretary on request.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction Operation	N	CDS-JV	WCX M5 AT established the o condition during the prepara Project, fulfilling the requirer This same consultation mana construction phase of the pro complaints.
C5		Prior to the commencement of site establishment works, or as otherwise agreed by the Secretary, the Proponent must establish and maintain a new website, or dedicated pages within an existing website, for the provision of electronic information associated with the SSI, for the duration of construction and for 12 months following commencement of operation of the SSI. The Proponent must, subject to confidentiality, publish and maintain up- to-date information on the website or dedicated pages including, but not limited to:	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction Operation	N	WCX M5 AT CDS-JV	The website for the Project v Environmental Impact Stater phase of the project. CDS-JV to the website. The website is: www.westconnex.com.au Further detail of documenta http://www.westconnex.cor I
C5	(a)	Information on the current implementation status of the SSI												
C5	(b)	a copy of the documents referred to in condition A2, and any documentation supporting modifications to this approval that may be granted from time to time												
C5	(c)	a copy of this approval and any future modification to this approval												
C5	(d)	a copy of each relevant environmental approval, licence or permit required and obtained in relation to the SSI												
C5	(e)	a copy of each current report, plan, or other document required under this approval												
C5	(f)	the outcomes of compliance tracking in accordance with condition A14 of this approval												
C5	(g)	details of contact point(s) to which community complaints and enquiries may be directed, including a telephone number, a postal address and an email address; and												
C5	(h)	information on how to receive important information in the common community languages of the area												
D1		Prior to the commencement of construction of the SSI, or as otherwise agreed by the Secretary, the Proponent must appoint a suitably qualified and experienced Environmental Representative(s) that is independent of the design and construction personnel, and that has been approved by the Secretary. The Proponent must employ the Environmental Representative(s) for the duration of construction, or as otherwise agreed by the Secretary. The Environment Representative(s) must:	N	N	N	Y	Y	Y	Y	Y	Pre-construction	Y	CDS-JV WCX M5 AT	The nominated Environment Wolf Peak (28/04/2016) was





DRAGADOS



he complaints management system to comply with this varation of the Environmental Impact Statement for the irements of this condition.

anager system is being utilised by CDS-JV during the project to ensure consistency in reporting of enquiries and

ct was established by SMC during the preparation of the atement, and will be maintained through the construction -JV will provide relevant project information to be uploaded

ntation for the new M5 Project can be found at: com.au/explore\_the\_route/stage\_2/new\_m5\_resources.htm

ental Representative (ER) for the project, Steve Fermio of was approved by DPE on 31/05/2016.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D1	(a)	be the principal point of advice in relation to the environmental performance of the SSI;												
D1	(b)	monitor the implementation of environmental management plans and monitoring programs required under this approval and advise the Proponent upon the achievement of these plans/programs;												
D1	(c)	have responsibility for considering, and advising the Proponent on, matters specified in the conditions of this approval, and other licences and approvals related to the environmental performance and impacts of the SSI;												
D1	(d)	ensure that environmental auditing is undertaken (but not undertake the audit) in accordance with the Proponent's Environmental Management System(s);												
D1	(e)	be given the authority to approve/reject minor amendments to the Construction Environment Management Plan. What constitutes a "minor" amendment must be clearly explained in the Construction Environment Management Plan;												
D1	(f)	be given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts; and												
D1	(g)	be consulted in responding to the community concerning the environmental performance of the SSI where the resolution of points of conflict between the Proponent and the community is required.												
D2		The Environmental Representative must prepare and submit to the Secretary a monthly report on the Environmental Representative's actions and decisions on matters specified in condition D1 for the preceding month. The reports must be submitted within seven days for the end of each month for the duration of construction of the SSI, or as otherwise agreed by the Secretary. Notwithstanding, the Environmental Representative must be given the independence to report to the Secretary at any time and/or at the request of the Secretary.	N	N	N	Y	Y	Y	Y	Y	Construction	Ν	CDS-JV	The ER has commenced mo
D3		Soil and water management measures consistent with Managing Urban Stormwater - Soils and Construction Vols 1 and 2, 4th Edition (Landcom, 2004) must 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. Where available and practicable, and of appropriate chemical and biological quality, stormwater, recycled water or other water sources must be used in preference to potable water for construction activities, including dust control.	Y	Y	Y	Y	Y	Y	Y	Y	Construction	Ν	CDS-JV	Erosion, sedimentation and Environmental Plans (or ero sediment basins, temporary temporary ground stabilisat be consistent with Managing 4th Edition (the Blue Book) ( Where available and practic collected water will be reuse for reusing water onsite or f where feasible and reasonal This condition is included in ES-PLN-PWD-0005) and the
D4		The Proponent must ensure any siphonic based water management system implemented during construction is removed and, where applicable, replaced with an adequate permanent drainage system.	N	N	N	Y	Y	Y	Y	Y	Construction	N	CDS-JV	This condition and measure Management Plan (M5N-ES Current plans do not require



DRAGADOS



nonthly reporting for construction.

nd drainage controls will be implemented as per Site erosion and sediment control plans), including temporary ary water treatment plants, sediment fencing, check dams, sation, diversion berms or site regrading. These controls will ging Urban Stormwater – Soils and Construction Vols 1 and 2, k) (Landcom, 2004).

ticable, and of appropriate chemical and biological quality, used onsite, eg for dust suppression. Additional opportunities or for construction will be investigated and implemented nable.

in the Construction Soil and Water Management Plan (M5Nhe Water reuse Strategy (M5N-ES-PLN-PWD-0035).

re is incorporated into the Construction Soil and Water ES-PLN-PWD-0005).

ire any siphonic based water management systems.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D5		The Proponent must immediately notify DPI (Water) of any groundwater bores removed or damaged during construction and operation of the SSI. In the event that a groundwater bore is removed or damaged, the Proponent must repair or replace the bore (unless otherwise advised by DPI (Water)), as applicable within a timeframe agreed to by DPI (Water).	Y	Y	Y	Y	Y	Y	Y	Y	Construction Operation	N	CDS-JV WCX M5 AT	CDS-JV will immediately not damaged over the course of Unless otherwise advised by will be replaced or repaired timeframe.
D6		A <b>geotechnical model</b> of representative geological and groundwater conditions must be prepared prior to excavation and tunnelling in subject area(s) to identify geological structures and groundwater features. This model must include details of proposed excavations and tunnels, construction staging, and identify surface and sub-surface structures and infrastructure which may be impacted by the SSI, including the specific attributes of those structures. The Proponent must use this model to assess the predicted settlement, ground movement, stress redistribution and horizontal strain profiles caused by excavation and tunnelling on adjacent property and infrastructure.	Ν	Ν	Ν	Y	Y	Y	Y	Y	Prior to excavation	Ν	CDS-JV	The geotechnical model has subject areas. This CoA is addressed in the GT-1505). The Report details geotechnical impacts of thes
D7		The Proponent must undertake a review of property and infrastructure at risk from damage to determine appropriate settlement criteria to prevent damage, prior to commencement of construction activities that may pose a settlement risk.	N	N	N	N	N	N	Y	N	Prior to tunnelling	N	CDS-JV	The Ground Movement Asse prepared prior to finalising o being undertaken prior to co
D8		Should the geotechnical model in condition D6 identify exceedances of the criteria established in condition D7 or in Table 1 (whichever is the lower), the Proponent must identify and implement mitigation measures such as appropriate support and stabilisation structures in <b>consultation</b> with the relevant land and/or infrastructure owners prior to the commencement of construction to ensure where possible that underground services, infrastructure and adjacent buildings will not experience settlements exceeding the criteria.	N	N	N	N	N	N	Y	N	Prior to tunnelling	Ν	CDS-JV	Measures will be implement model required as per condi predicted settlement impact negotiate and agree to accep instrumentation and monito criteria.
D8 D8		Table 1 - Settlement Criteria (refer sheet 2)         The above criteria do not remove any responsibility from the Proponent for the protection of existing structures or for rectifying any damage resulting from the SSI												
D9		Settlement criteria for individual utility structures and infrastructure must be determined in <b>consultation</b> with the relevant authorities prior to the commencement of any construction potentially affecting the individual utility structure or infrastructure.	Y	Y	Y	Y	Y	Y	Y	Y	Prior to works affecting utilities/infrastructure	N	CDS-JV	Settlement criteria will be de and reported in the Ground Report will inform detailed c affect individual utility struct
D10		A detailed <b>land use survey</b> must be undertaken to confirm sensitive receivers (including critical working areas such as operating theatres and precision laboratories) potentially exposed to construction vibration, construction ground-borne noise and operational noise. The survey may be undertaken on a progressive basis but must be undertaken in any one area prior to the commencement of construction works which generate construction vibration or ground-borne noise in that area. The results of the survey must be included in the (or an updated) Construction Noise and Vibration Management Plan as required by condition D68(b)	Y	Y	Y	N	Ν	Ν	N	Ν	Pre-construction	N	CDS-JV	CDS-JV has engaged the nois have prepared a detailed lan Appendix B of the Construct PWD-0003)



DRAGADO



notify DPI Water if any groundwater bores are removed or of the works.

by DPI Water any damage or removal of groundwater bores ed or the landowner compensated within a reasonable

as been prepared prior to excavation and tunnelling in the

he Geotechnical Interpretive Report (M5N-GOL-TER-100-200ails excavation and tunnelling activities and assesses the hese activities.

ssessment Report will fulfil this condition and is being g detailed design to enable feedback into the design. This is o construction that may influence ground settlement.

ented if exceedances are identified from the geotechnical ndition D8. Where necessary CDS-JV will provide the act assessment to the appropriate asset owner, and ceptable limits of settlement. Where appropriate, nitoring will be used to ensure no exceedances of the agreed

e determined in consultation with the relevant authorities and Movement Design Report. The Ground Movement Design ad design for construction activities that have the potential to fucture or infrastructure.

noise and vibration specialists, Renzo Tonin & Associates, who land use survey. The results of the survey are provided as uction Noise and Vibration Management Plan (M5N-ES-PLN-

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D11		Prior to construction, properties that are at risk from construction vibration must be notified and incorporated into the Construction Noise and Vibration Management Plan as required by condition D68(b).	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	CDS-JV	CDS-JV has engaged the noise assess the vibration impacts of This requirement has been pr Management Plan (M5N-ES-F in the Community Communic
D12		Construction activities associated with the SSI must be undertaken during the following standard construction hours:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	CDS-JV	Except as permitted by the correstricted to the nominated to and Vibration Management P
D12	(a)	7:00 am to 6:00 pm Mondays to Fridays, inclusive												
D12	(b)	8:00am to 1:00pm Saturdays; and												
D12	(c)	at no time on Sundays or public holidays												
D13		Notwithstanding condition D12, tunnelling may be undertaken 24 hours, seven days per week. Other activities associated with tunnelling (such as spoil haulage if approved under the Spoil Management Plan, deliveries, work area establishment, temporary road and intersection modifications, roads/cut-and-cover/dive structures and approach roads and ramps, excavation and ground support, civil, mechanical, and electrical, and ventilation facilities construction) may be undertaken outside of the hours specified in condition D12 where allowed in accordance with condition D15.	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	The allowance for 24 hour op 4.1.1 and 4.1.2 of the Constru- PLN-PWD-0003). Tunnelling and tunnel suppor days per week under the pro-
D14		Except as permitted by an EPL, activities resulting in impulsive or tonal noise emissions must only be undertaken:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	Ν	CDS-JV	Except as permitted by the correstricted to the nominated t Construction Noise and Vibra
	(a)	between the hours of 8:00 am to 6:00 pm Monday to Friday												the Out of Hours Works Proto Management Plan).
	(b)	between the hours of 8:00am 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.												
D15		Notwithstanding conditions D12 and D14, construction works associated with the SSI may be undertaken outside the hours specified under those conditions in the following circumstances:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	CDS-JV	This requirement is addresse Management Plan (M5N-ES-I (Appendix E to the Construct
D15	(a)	construction works that cause LAeq (15 minute) noise levels that are:												
D15	(a)	(i) No more than 5 dB(A) above rating background level at any residence in accordance with the Interim Construction Noise guideline (DECC, 2009), and												
D15	(a)	<ul> <li>(ii) no more than the noise management levels</li> <li>specified in Table 3 of the Interim Construction Noise</li> <li>Guideline (DECC, 2009) at other sensitive land uses, and</li> </ul>												
D15	(a)	<ul> <li>(iii) continuous or impulsive vibration values, measured at the most affected residence are no more than those for human exposure to vibration, specified in table 2.2 of Assessing vibration: a technical guideline</li> <li>(DEC, 2006), and</li> </ul>												



DRAGADO



noise and vibration specialists, Renzo Tonin & Associates, to cts of the project.

n provided in the Construction Noise and Vibration ES-PLN-PWD-0003). Notification arrangements are outlined Inication Strategy (M5N-CS-PLN-PWD-0008)

e conditions of this approval or an EPL, works will be ed timeframes. This is addressed in the Construction Noise Int Plan (M5N-ES-PLN-PWD-0003).

r operations of tunnelling activities is described in Section Istruction Noise and Vibration Management Plan (M5N-ES-

port activities are approved to be conducted 24 hours, 7 project EPLs (EPL 20772 & EPL 4627).

e conditions of this approval or an EPL, works will be ed timeframes. This is addressed in Section 4.1.3 of the ibration Management Plan (M5N-ES-PLN-PWD-0003), and rotocol (Appendix F to the Construction Noise and Vibration

essed in Section 4.1.4 of the Construction Noise and Vibration ES-PLN-PWD-0003), and the Out of Hours Works Protocol ruction Noise and Vibration Management Plan).

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D15	(a)	intermittent vibration values measured at the most affected residence are no more than those for human exposure to vibration, specified in Table 2.4 of Assessing vibration: a technical guideline (DEC, 2006); or												
D15	(b)	where a negotiated agreement has been reached with affected receivers, where the prescribed noise and/or vibration levels cannot be achieved; or												
D15	(c)	for the delivery of materials required by the police or other authorities for safety reasons; or												
D15	(d)	where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm; or												
D15	(e)	construction works approved through an Out-Of-Hours Work Protocol prepared as part of the Construction Noise and Vibration Management Plan required by condition D68(b), provided the relevant council, local residents and other affected stakeholders and sensitive receivers are informed of the timing and duration at least five days and no more than 14 days prior to the commencement of the works; or												
D15	(f)	construction works approved through an EPL.												
D16		The Proponent must implement all reasonable and feasible noise mitigation measures with the aim of achieving the following construction noise management levels and vibration criteria:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	CDS-JV	Mitigation measures are prov Management Plan (CNVMP; I vibration criteria are set out i guidelines/standards. The CNVMP also summarises Impact Statements (Appendiz measures based on the differ The mitigation measures con Management Plan and the Co implemented on site as require
D16	(a)	construction noise management levels established using the Interim Construction Noise Guideline (DECC, 2009);												
D16	(b)	vibration criteria established using the Assessing vibration: a technical guideline (DEC, 2006) (for human exposure);												
D16	(c)	Standard AS 2187.2- 2006 Explosives- Storage and Use- Use of Explosives												
D16	(d)	BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2' as applicable to Australian conditions; and												
D16	(e)	the vibration limits set out in the German Standard DIN 4150-3: Structural Vibrationeffects of vibration on structures (for structural damage).												
D16		Any construction activities identified as exceeding the construction noise management levels and/or vibration criteria must be managed in accordance with the Construction Noise and Vibration Management Plan required by condition D68(b).												
D16		Note: The Interim Construction Noise Guideline identifies 'particularly annoying' activities that require the addition												



DRAGADOS



provided in the Construction Noise and Vibration IP; M5N-ES-PLN-PWD-0003). Noise management levels and but in the CNVMP and are in accordance with the specified

ises the outcomes of the Construction Noise and Vibration andix D) for the works which include tailored mitigation ifferent works packages and receiving catchments.

contained in the Construction Noise and Vibration e Construction Noise and Vibration Impact Statements will be equired and where reasonable and feasible.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
		of 5 dB(A) to the predicted level before comparing to the construction NML.												
D17		Feasible and reasonable noise mitigation measures should be applied to construction activities when the following residential ground-borne noise levels are exceeded:	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	CDS-JV	Mitigation measures will be nominated levels. These mea and Vibration Management specific mitigation measures
	(a)	evening (6:00 pm to 10:00 pm)- internal LAeq(15 minute): 40 dB(A); and												and summarised in Appendix A CNVIS has been prepared f CNVMP) which outlines feas
	(b)	night (10:00pm to 7:00am)- internal LAeq(15 minute): 35 dB(A).												meet the criteria for ground
		The mitigation measures should be outlined in the Construction Noise and Vibration Management Plan, including the Out-of-Hours Work Protocol, required by condition D68(b).												
D18		Wherever practical, piling activities that affect sensitive receivers must be undertaken using quieter alternative methods than impact or percussion piling, such as bored piles or vibrated piles.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	CDS-JV will consider alternat where activities may affect s This requirement is addresse Management Plan (MSN-ES-
D19		The Proponent must implement operational noise mitigation measures (such as noise barriers or at- property architectural treatments) in areas where the documents referred to in conditions A2(b) and A2(c) have identified the receivers would be subject to construction noise impacts and in areas where existing noise barriers are to be altered or removed prior to commencement of construction, where feasible and reasonable. Where this is not feasible and reasonable, the Proponent must submit to the Secretary for approval a report providing justification as to why along with details of the temporary measures that would be implemented to reduce construction noise impacts until such time that the operational noise mitigation measures are implemented. The report must be provided to the Secretary prior to the commencement of construction works which would affect the identified receivers. Nothing in this condition prevents the Proponent from submitting separate reports for separate areas of construction.	N	N	N	Y	Y	Y	Y	Y	Construction	N	CDS-JV	CDS-JV will implement opera program, where possible. This requirement is addresse Management Plan (M5N-ES- cannot be implemented, a re will be provided to DP&E priv
D20		The Proponent must develop and implement a Temporary Noise Barrier Strategy which includes:	Y	Y	N	Y	Y	Y	N	Y	Pre-construction, construction	Y	CDS-JV	The Temporary Noise Barrier relevant to each stage of the
D20	(a)	Identification and confirmation of all temporary noise barriers including -												for approval as follows: - A Temporary Noise Barrier (
D20	(a)	<ul> <li>the provision of a temporary noise barrier on the northern side of the Kingsgrove North construction compound to provide noise mitigation to highly affected residents at a level greater than that identified in the documents referred to in condition A2(b),</li> </ul>												<ul> <li>(C1-C3) has been approved (2 D20(a)(i &amp; ii);</li> <li>A Temporary Noise Barrier has been approved (16/09/2 Temporary Noise Parrier St</li> </ul>
D20	(a)	<ul> <li>(ii) consideration of the installation of temporary noise barriers on the southern and northern side of the M5 East Motorway during the relocation of the existing permanent noise barriers (or detail on why these noise barriers are not considered feasible and reasonable),</li> </ul>												<ul> <li>Temporary Noise Barrier St D20(a)(iv) in part, has been a</li> <li>Temporary Noise Barrier St D20(a)(iv) in part, has been s</li> </ul>



DRAGADO



be implemented where ground-borne noise levels exceed the measures are provided in Section 6 of the Construction Noise ant Plan (CNVMP; M5N-ES-PLN-PWD-0003) and additional res are provided in the CNVIS as described under Section 5.1 ndix D.

ed for tunnelling works (summarised in Appendix D.7 of the easible and reasonable mitigation measures to be applied to nd borne noise.

native work methods, including alternative piling methods, ct sensitive receivers.

essed in Section 6.2 of the Construction Noise and Vibration ES-PLN-PWD-0003).

erational noise mitigation measures early in the construction

essed in Section 6.2 of the Construction Noise and Vibration ES-PLN-PWD-0003) as well as in the CNVISs. Where this a report stating why and the temporary measures to be used, prior to commencement of the relevant construction works.

rier Strategy is being staged and submitted to DPE as the project, and is therefore being prepared and submitted

ier Strategy for the Kingsgrove construction compound sites d (23/06/2016) for Stage 1(a), which specifically addresses

rier Strategy for SPI construction compound sites (C8-C11) 9/2016) for Stage 2(d), which addresses D20(a)(iv) in part;

r Strategy for the Bexley sites (C4-C6) which addresses en approved subject to conditions on 23/11/2016;

<sup>r</sup> Strategy for the Arncliffe site (C7), which addresses en submitted for approval;

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D20	(a)	(iii) consideration of the installation of temporary noise barriers along Campbell Road, Campbell Street and Euston Road (or detail on why these noise barriers are not considered feasible and reasonable), and												- Temporary Noise Barrier St addresses D20(a)(iii) in part - Consideration of noise barr D20(a)(iii) will be provided ir
D20	(a)	temporary noise barriers around construction compounds;												commencement of construct December 2016.
D20	(b)	the consultation and decision-making process for all temporary noise barriers; and												
D20	(c)	an acoustic report detailing the final barrier heights, material analysis and predicted benefits												
D20		The temporary barrier options must be developed in consultation with the landowners adjacent to the barrier locations prior to the adoption of a final design.												
D20		The Temporary Noise Barrier Strategy must be approved by the Secretary prior to site establishment works or construction works at the Kingsgrove North construction compound, the permanent noise barriers on the northern and southern side of the MS East Motorway are removed, and/or road widening works are undertaken along Campbell Road, Campbell Street or Euston Road.												
D21		All acoustic sheds and non-acoustic sheds must be erected at construction ancillary facilities as soon as site establishment works at the facilities are completed and prior to undertaking any works or activities which are required to be conducted within the sheds.	N	N	N	Y	Y	Y	Y	Y	Pre-construction	Ν	CDS-JV	The approved Ancillary Facil addresses this condition. Acoustic sheds have comme compound and the Bexley N
														CDS-JV are awaiting the out regards to this condition.
D22		The Proponent must conduct vibration testing prior to commencing vibration generating activities that have the potential to impact on heritage items and vibration monitoring during initial vibration generating activities to identify minimum working distances to retained heritage items to prevent cosmetic damage to these items. In the event that the vibration testing and monitoring shows that the preferred values for vibration are likely to be exceeded, the Proponent must review the construction methodology and, if necessary, implement additional feasible and reasonable mitigation measures, unless otherwise agreed to by the Secretary. Vibration monitoring must be undertaken where structures are identified to be within safe working distances of vibration generating equipment activities	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	Requirements for assessmer Construction Noise and Vibr relevant CNVIS as described If vibration intensive works a monitoring or attended vibra to ensure that levels are wit
D23		The Proponent must undertake noise monitoring during initial high noise generating activities (such as piling, rock hammering, jack hammering) to accurately establish the LAeq to LA1(1 minute) differential and confirm the number of sensitive receivers which may experience sleep disturbance as a result of construction of the SSI during the evening and night-time periods. Management measures must be employed to minimise sleep disturbance impacts in accordance with the Construction Noise and Vibration Management Plan required by condition D68(b).	Ŷ	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	Ν	CDS-JV	Requirements for assessmer activities are identified in Se Vibration Management Plan measures are also identified disturbance impacts



DRAGADOS



r Strategy for Campbell Road and Campbell Street, which art has been submitted for approval;

parriers along Euston Road to address the remainder of d in a separate document to be submitted prior to ruction works at this location (Stage 4). This is expected to be

acilities Management Plan (M5N-ES-PLN-PWD-0026)

menced construction at the SPI tunnelling construction y North construction compound.

butcome of a modification that is currently being sought in

nent and monitoring of vibration are identified in the ibration Management Plan (M5N-ES-PLN-PWD-0003) and the ed in Sections 5.1 and 5.2 of the CNVMP.

ks are required within the safe working distances, vibration ibration trials will be undertaken at the outset of these works within relevant criteria.

nent and monitoring of night-time high noise generating Sections 4.2.3 and 4.2.4 of the Construction Noise and Ian (M5N-ES-PLN-PWD-0003). Recommended management ied in Section 6.2 of the CNVMP to minimise sleep

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D24		The Proponent must <b>consult</b> with potentially-affected community, religious, educational institutions and vibration-sensitive business and critical working areas (such as theatres, laboratories and operating theatres) to ensure that, where feasible and reasonable, noise generating construction works in the vicinity of the affected receivers are not timetabled during sensitive periods, unless other reasonable arrangements to the affected institutions are made at no cost to the affected institution. Consultation must be undertaken at least five days prior to undertaking noise generating construction works that would impact on the potentially affected vibration-sensitive receivers.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	Community consultation prior undertaken in accordance w PLN-PWD-0008). Key staken Strategy. Where feasible and reasonal avoided during sensitive per These requirements are inco Vibration Management Plan Communication Strategy (M
D25		During construction, proponents of other construction works in the vicinity of the SSI must be <b>consulted</b> and reasonable steps taken to coordinate works to minimise impacts on, and maximise respite for, affected sensitive receivers.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	Ν	CDS-JV	Where applicable, proponen be consulted and reasonable sensitive receivers. This requirement is incorpor Vibration Management Plan
D26		The Proponent is to ensure that construction vehicle contractors operate so as to minimise any sleep disturbance impacts. Measures that could be used include toolbox talks, contracts that include provisions to deal with unsatisfactory noise performance for the vehicle and/or the operator, and specifying non-tonal movement alarms in place of reversing beepers or alternatives such as reversing cameras and proximity alarms, or a combination of these, where tonal alarms are not mandated by legislation.	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	CDS-JV	Recommended managemen the Construction Noise and V minimise sleep disturbance i
D27		Use of compression brakes must not be permitted for construction vehicles associated with the SSI during construction, unless in an emergency situation	Y	Y	Y	Y	Y	Y	Y	Y	Construction	Ν	CDS-JV	Compression brakes will not addressed in Section 6 of the (M5N-ES-PLN-PWD-0003).
D28		Should blasting be required, the Proponent must prepare a <b>Blast Management Strategy</b> in <b>consultation</b> with the EPA and submit the Blast Management Strategy to the Secretary prior to any blasting. The Blast Management Strategy must demonstrate that all blasting and associated activities will be undertaken in a manner that will not generate unacceptable noise and vibration impacts or pose a significant risk impact to residences and sensitive receptors. The Blast Management Strategy must also address the principles outlined in Hazardous Industry Planning Advisory Paper No 6: Hazard Analysis (Department of Planning, January 2011) and Assessment Guideline: Multi-Level Risk Assessment (Department of Planning and Infrastructure, May 2011) for the handling and storage of hazardous materials. Issues to be considered in the Blast Management Strategy must include, but not be limited to:	Ν	N	Ν	N	N	Ν	Y	N	Prior to blasting	Ν	CDS-JV	Blasting is proposed to be ur project. A Blast Managemen to comply with this condition
D28	(a)	details of blasting to be performed, including location, method and justification of the need to blast;												
D28	(b)	identification of any potentially affected noise and vibration sensitive sites including heritage buildings and utilities;												
D28	(c)	establishment of appropriate criteria for blast overpressure and ground vibration levels at each category of noise sensitive site;												





DRAGADO



prior to and during the construction activities will be e with the Community Communication Strategy (M5N-CSceholders required by this condition are identified in this

nable, noise-generating construction works would be periods in the vicinity of the receiver. ncorporated into Section 6 of the Construction Noise and lan (M5N-ES-PLN-PWD-0003) and the Community (M5N-CS-PLN-PWD-0008).

nents of other construction works in the vicinity of the SSI will able steps would be undertaken to minimise impacts on

porated into Section 6 of the Construction Noise and lan (M5N-ES-PLN-PWD-0003).

nent measures to minimise sleep disturbance are identified in nd Vibration Management Plan (M5N-ES-PLN-PWD-0003) to ce impacts.

not be used unless required in an emergency. This is the Construction Noise and Vibration Management Plan

e undertaken during Stage 3 activities from mid 2017 for the nent Strategy is being prepared in consultation with the EPA tion, and is expected to be submitted in early 2017.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D28	(d)	details of the storage and handling arrangements for explosive materials and the proposed transport of those materials to the construction site;												
D28	(e)	identification of hazardous situations that may arise from the storage and handling of explosives, the blasting process and recovery of the blast site after detonation of the explosives;												
D28	(f)	determination of potential noise and vibration and risk impacts from blasting and appropriate monitoring and best management practices to minimise and manage any blasting impacts and assess compliance with conditions D34 and D35; and												
D28	(g)	community consultation procedures.												
D29		The vibration levels for blasting activities, including both above ground and underground work, must meet the requirements of conditions D34 and D35.	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	This requirement will be add
D30		Blasts must be limited to an average of one single detonation in any one day, per sensitive receiver, and a maximum of six per week per sensitive receiver, unless otherwise agreed by the EPA through <b>consultation</b> on the Blast Management Strategy.	N	N	N	N	N	N	Y	N	Construction	Ν	CDS-JV	This requirement will be add
D30		Note: For the purposes of this condition a single detonation may involve a number of individual blasts fired in quick succession in a discrete area.												
D31		For any section of tunnel construction where blasting is proposed, a series of initial trials at reduced scale must be conducted prior to production blasting to determine site-specific blast response characteristics and to define allowable blast sizes to meet the airblast overpressure and ground vibration limits in conditions D34 and D35.	N	N	N	Ν	Ν	Ν	Y	N	Construction	Ν	CDS-JV	This requirement will be add
D32		Blasting associated with the project must only be undertaken during the following hours:	N	N	N	N	N	N	Y	N	Construction	Ν	CDS-JV	This requirement will be add
D32	(a)	9:00 am to 5:00 pm, Monday to Friday, inclusive;												
D32	(b)	9:00 am to 1:00 pm Saturday; and												
D32	(c)	at no time on Sunday or on a public holiday,												
D32		or as otherwise allowed for by the EPA and outlined in the Blast Management Strategy.												
D32		This condition does not apply in the event of a direction from police or other relevant authority for safety or emergency reasons to avoid loss of life, property loss and/or to prevent environmental harm.												
D33		Where vibration levels generated by blasting exceed the acceptable vibration dose values, feasible and reasonable mitigation measures must be considered and implemented.	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	This requirement will be add
D34		Airblast overpressure generated by blasting associated with the SSI must not exceed the criteria specified in Table 2 when measured at the most affected residence or other sensitive receiver.	N	N	N	N	N	N	Y	N	Construction	N	CDS-JV	This requirement will be add
D34		Table 2 - Airblast Overpressure Criteria (refer sheet 2)												

WestConnex New M5



DRAGADOS



addressed by the Blast Management Strategy.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D35		Ground vibration generated by blasting associated with the SSI must be limited for human comfort to the criteria specified in Table 3 when measured at the most affected residence or other sensitive receiver.	N	N	N	N	N	N	Y	Ν	Construction	N	CDS-JV	This requirement will be add
D35		Table 3 - Ground Vibration Limits for Human Comfort (AS 2187.2) (refer sheet 2)												
D35		Notes: A sensitive site includes houses and low rise residential buildings, theatres, schools, and other similar buildings occupied by people. The recommendations in Table J4.5(A) of AS 2187.2 – 2006 Explosives – Storage and Use – Use of Explosives are intended to be informative and do not override statutory requirements with respect to human comfort limits set by various authorities. They should be read in conjunction with any such statutory requirements and with regard to their respective jurisdictions.												
D36		The blasting criteria identified in conditions D34 and D35 do not apply where the Proponent has a written agreement with the relevant landowners to exceed the criteria. The Proponent must submit to the Secretary details on the propose increased blasting limits, where and when the blasting would occur, the mitigation and monitoring procedures that would be implemented and details of the <b>consultation</b> undertaken with the relevant landowners.	N	Ν	Ν	N	N	N	Y	Ν	Construction	Ν	CDS-JV	This requirement will be add
D36		The following exclusions apply to the application of this condition:												
D36	(a)	any agreements reached may be terminated by the landowner at any time should concerns about the increased blasting limits be unresolved												
D36	(b)	the blasting limit agreed to under any agreement can at no time exceed a maximum Peak Particle Velocity vibration level of 25 mm/s or maximum airblast overpressure level of 125 dBL(Peak); and												
D36	(c)	the provisions under this condition (to increase applicable blast criteria in agreement with the relevant landowners) do not apply where the property is a heritage item												
D37		Prior to the commencement of construction in proximity to, or affecting, a heritage item or contributory item in a heritage conservation area, the Proponent must complete the archival recordings, including photographic recording of the heritage items, unless otherwise agreed by the Secretary. The archival recording must be undertaken by a qualified and experienced heritage consultant, in accordance with the How to Prepare Archival Records of Heritage Items (2003) guidelines issued by the Heritage Council of NSW. Within 12 months of completing the archival recording, or as otherwise agreed by the Secretary, the Proponent must submit a Heritage and Contributory Item Archival Recording and Research Report containing the archival and photographic recordings and historical research, to the Department, the Heritage Council of NSW, the local library, and the local Historical Society in the respective local government area(s).	Y	Y	Y	Y	Y	Y	Ν	Y	Prior to construction	Ν	CDS-JV	Archival recording is being un Heritage, prior to constructio Management Plan (MSN-ES- The requirement for a Herita Research Report is also addro agencies, libraries and histor



DRAGADOS



addressed by the Blast Management Strategy.

addressed by the Blast Management Strategy.

g undertaken by the project's heritage specialists, Extent ction in accordance with the Construction Heritage ES-PLN-PWD-0006) and the relevant guidelines. ritage and Contributory Item Archival Recording and ddressed in the CHMP and will be submitted to the relevant torical societies at the completion of the archival recording.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D38		The Proponent must complete archival recordings for any impacted part of the heritage conservation area prior to the commencement of construction within a respective heritage conservation area. <b>Consultation</b> with the Heritage Council of NSW (or its delegate) and the relevant council is to be carried out to determine the objectives and approaches to the archival recording. The archival recording of heritage conservation areas is to include, but not be limited to:	Y	Y	Y	Y	Y	Y	N	Y	Prior to construction	N	CDS-JV	This requirement, including Construction Heritage Sub-F Archival recording is being u using a process developed in Trust and the relevant coun The requirement for Heritag Reports is also addressed in submitted to the relevant ag of the archival recording.
D38	(a)	comprehensive photographic recording of buildings, structures, open spaces, public realm, architecture, urban design, landscaping and streetscapes;												
D38	(b)	surveying and mapping of land use arrangements, street patterns and layouts, subdivision layouts, landscape design and street tree plantings; and												
D38	(c)	any other feasible recording requested and agreed to following consultation with the aforementioned stakeholders.												
D38		The archival recording of heritage conservation areas must be undertaken by a qualified and experienced heritage consultant, and should be undertaken in a manner generally reflective of the <i>How to Prepare</i> <i>Archival Records of Heritage Items (2003)</i> guidelines issued by the Heritage Council of NSW. Within 12 months of completing the archival recording, or as otherwise agreed by the Secretary, the Proponent must submit a Heritage Conservation Area Archival Recording and Research Report, for each relevant heritage conservation area, containing the archival and photographic recordings, mapping and historical research, to the Department, the Heritage Council of NSW, the local library, the local Historical Society in the respective local government area(s).												
D39		Prior to excavation works adjacent to the Alexandra Canal and St Peters Interchange the Proponent must engage a suitably qualified archaeologist whose experience complies with the Heritage Council of NSW's <i>Criteria for Assessment of Excavation Directors</i> (July, 2011) (referred to as the Excavation Director) to oversee and advise on matters associated with historic archaeology and to prepare an <b>Archaeological Research</b> <b>Design and Excavation Methodology</b> . The Archaeological Research Design and Excavation Methodology is to be <b>submitted to the Heritage Council of NSW for review</b> <b>and comment</b> prior to finalisation. The Archaeological Research Design and Excavation Methodology must:	Ν	Y	Y	N	N	Y	Y	Υ	Prior to excavation	Ν	CDS-JV	CDS-JV have engaged an Exc Wilson meets the relevant N historic archaeology. The role of the Excavation D (M5N-ES-PLN-PWD-0006) ar Methodology (HARD), which HARD has been reviewed by HARD is included as Append
D39	(a)	be consistent with the NSW Heritage Council's Archaeological Assessments Guideline (1996);												
D39	(b)	provide for the detailed analysis of any heritage items discovered during the investigations;												
D39	(c)	include management options for discovered heritage items (including options for relocation and display); and												
D39	(d)	if the findings of the investigations are significant, provide for the preparation and implementation of a heritage interpretation plan.												



DRAGADOS



ing the necessary consultation, is addressed in the ub-Plan (M5N-ES-PLN-PWD-0006).

ng undertaken by the heritage specialists, Extent Heritage, ed in consultation with the NSW Heritage Council, National puncils.

itage Conservation Area Archival Recording and Research I in the Construction Heritage Sub-Plan and these will be t agencies, libraries and historical societies at the completion

Excavation Director, Graham Wilson, of Extent Heritage. Mr t NSW criteria and is available to oversee and advise on

on Director is described in the Construction Heritage Sub-Plan 5) and the Archaeological Research Design and Excavation hich has been prepared for the project by Mr Wilson. The d by the Heritage Council of NSW and relevant Councils. The endix D to the Construction Heritage Sub-Plan.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D39		Where excavation works are required in the vicinity of potential archaeological sites, the Excavation Director must be present to advise on archaeological issues and oversee excavation works. The Excavation Director must be given the authority to advise on the duration and extent of oversight required during excavation.												
D40		In the event that archaeological relics are discovered during construction, all work must cease in the affected area and the Excavation Director must be notified and attend the site to assess the finds, identify their significance level and provide mitigation advice according to the significance level and the impact proposed. In the event that the relics are identified as being of State or local significance, the Heritage Council of NSW must be <b>notified</b> in writing in accordance with section 146 of the Heritage Act 1977. An <b>Archaeological Relics Management Plan</b> specific to the relics or site encountered is to be prepared in <b>consultation</b> with the Heritage Council of NSW which is to outline all feasible and reasonable measures to be implemented to avoid and/or minimise harm to the State or locally significant heritage items. Works within the vicinity of the find must not recommence without the approval of a suitably qualified and experienced archaeologist in consultation with the Heritage Council of NSW. The Proponent must notify the Secretary in writing of any such encounter of an archaeological relic triggering this condition and must also notify the Secretary of the outcome of consultation with the Heritage Council of NSW.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	Y	CDS-JV WCX M5 AT	Where unidentified archaeol Unexpected Heritage Finds P Plan (M5N-ES-PLN-PWD-000 The procedure outlines the h reporting requirements assou (Appendix D of the Construct processes and assessment th to be significant.
D41		In the event that archaeological relics are discovered, within 12 months of completing all archaeological investigations, unless otherwise agreed by the Secretary, the Proponent must prepare an <b>Excavation Report</b> containing the findings of any excavations, including artefact analysis and the identification of a final repository of any finds. The Excavation Report must be <b>submitted</b> to the Department, the Heritage Council of NSW, and the local library and the local Historical Society in the relevant local government area(s). A copy of the Excavation Report must be retained with the relics at all times.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	The requirement for an Excav addressed in the Construction
D42		The Proponent must undertake photographic and drawn archival recordings of the geological features of the St Peters Brickpit Geological Site prior to undertaking any works that would result in the features being obscured. The recordings should be included in the Heritage Interpretation Plan required by condition B40.	N	Y	N	N	N	Y	Y	N	Prior to construction	N	CDS-JV	Archival recording of the St P 3-dimensional modelling. The archival recordings will b requirement is addressed in 1 0006).



DRAGADOS



eological relics are discovered, CDS-JV would implement the s Procedure, Annexure A to the Construction Heritage Sub-006).

ne hold points, investigation, assessment, notification and ssociated with an archaeological discovery. The HARD ruction Heritage Sub-Plan) provides further details about the t that would be required where the discovery is determined

cavation Report in accordance with this condition is ction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006).

t Peters Brickpit Geological Site has been undertaken using

ill be included in the Heritage Interpretation Plan. This in the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D43		The Proponent must take all reasonable steps so as not to harm, modify or otherwise impact any Aboriginal heritage item associated with the SSI.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	The approved project EIS ide significance within and surro No impacts to known Aborig expected to occur during the management measures prov ES-PLN-PWD-0006). Should any activities be requ be assessed in regards to poi changes (that may extend be (M5N-EN-PLN-PWD-0001). Measures to minimise impaci items are described in the CH (Appendix A to the CHSP).
D44		Where previously unidentified Aboriginal objects are discovered during construction of the SSI, all work should stop in the affected area and a suitably qualified and experienced Aboriginal heritage expert should be contacted to provide specialist heritage advice. The measures to consider and manage this process must be specified in the Construction Heritage Management Plan required by condition D68(c) and, where relevant, include registration in the OEH's Aboriginal Heritage Information Management System (AHIMS) register.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	Impacts to Aboriginal heritag the project. Where previous be managed in accordance w to the Construction Heritage safeguards listed in the Cons
D45		The Proponent must undertake a program of geotechnical coring at each pile location adjacent to Alexandra Canal to obtain sediment samples to a depth of seven metres. The sediment cores are to be examined by a suitably qualified and experienced archaeologist engaged by the Proponent to determine the potential for Aboriginal archaeological artefacts. The assessment by the archaeologist must be carried out prior to the commencement of excavation and/or piling works adjacent to the Canal. In the event that artefacts are uncovered, the Proponent must implement the procedures for unexpected finds required by condition D68(c)(i) and update the Construction Heritage Management Plan required by condition D68(c).	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Y	Construction	Ν	CDS-JV	This requirement is addresse PWD-0006). The sediment cores are bein Heritage, prior to excavation Stage 4(b)). If artefacts are d Procedure will be implement
D46		Unless otherwise approved by the Secretary, heavy vehicle movements associated with the construction of the SSI are not permitted to use Wirega Avenue and Garema Circuit at Kingsgrove, or any other local road not identified for use in the documents referred to in conditions A2(b) and A2(c), unless approved by the Secretary. When seeking the Secretary's approval for use of such local roads, justification must be provided as to why use of the local road(s) is the only feasible and reasonable route along with details on how impacts on surrounding sensitive receivers will be managed.	N	N	N	Y	Y	Y	Y	Y	Construction	Y	CDS-JV	Heavy vehicles associated wi Garema Cct or other unappro approved by the Secretary. T Management Plan (MSN-ES- (TASP; MSN-TM-PLN-PWD-0 to be required for the projec An application under this cor use of Wirega Avenue and G 19/10/16.
D47 D47 D47	(a) (b)	Construction vehicles (including staff vehicles) associated with the SSI must be managed so that: parking or queuing on public roads is minimised; idling and queuing in local residential streets is minimised, where practicable;	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	CDS-JV	The management of constru Access Sub-Plan (M5N-ES-PL Plan (M5N-ES-PLN-PWD-002 Project inductions and the D project, also provide addition



DRAGADO



identified the known areas / items of Aboriginal Heritage irrounding the project footprint.

original heritage (inside or outside the project footprint) are the construction phase, with the implementation of rovided in the Construction Heritage Sub-Plan (CHSP; M5N-

equired beyond the approved project boundary, they would potential impact on Aboriginal heritage. The assessment of I beyond the approved footprint) is summarised in the CEMP

pact to known and potential unknown Aboriginal heritage CHSP and in the Unexpected Heritage Finds Procedure

itage (inside or outside the SSI footprint) will be avoided by ously unidentified Aboriginal objects are discovered, they will are with the Unexpected Heritage Finds Procedure (Appendix A age Sub-Plan). This requirement is addressed in the onstruction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006).

ssed by the Construction Heritage Sub-Plan (M5N-ES-PLN-

eing assessed by the project archaeologist, of Extent ion or piling works adjacent to Alexandra Canal (ie prior to e discovered in the cores, the Unexpected Heritage Finds iented.

A with construction of the project will not use Wirega Ave, poproved road during the construction phase unless otherwise y. This is described in Section 5.6 of the Ancillary Facilities ES-PLN-PWD-0026) and the Traffic and Access Sub-Plan D-0001). Where use of an unapproved local road is identified oject, a report outlining the justification for the proposed use. condition was submitted to DP&E on 1/09/2016 in regards to d Garema Circuit in Kingsgrove. The application was approved

truction vehicles is addressed by the Construction Traffic and -PLN-PWD-0004) and the Ancillary Facilities Management 0026) for construction traffic noise management measures. e Drivers Code of Conduct (Section 6.13 of the CTASP) for the tional measures to address these requirements.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D47	(c)	heavy vehicles adhere to the nominated haulage routes identified in the Construction Traffic and Access Management Plan required under condition D68(a); and												
D47	(d)	access and egress from construction compounds is undertaken in a safe and lawful manner, with particular regard be given to this compounds located in the vicinity of schools and the potential implementation of traffic management or signalisation, in <b>consultation</b> with the relevant council.												
D48		Functional and safe pedestrian and cyclist access through and around worksites must be maintained during construction. This includes the consideration of 'safer by design' principles including the provision of appropriate sight lines and lighting. In circumstances where pedestrian and cyclist access is restricted due to construction activities, a satisfactory alternate route must be provided and signposted, including provision of footpaths where pedestrian access is reliant on grassed verges.	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	CDS-JV	Maintenance of pedestrian a routes, is addressed by Secti Sub-Plan (M5N-ES-PLN-PWD
D49		Access to all properties must be maintained during construction, where feasible and reasonable, unless otherwise agreed by the relevant property owner or occupier. Any access physically affected by the SSI must be reinstated to at least an equivalent standard, unless agreed with by the property owner.	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	CDS-JV	Access to all properties will b reasonable, unless otherwise Any access physically affecte standard, unless agreed by th project are addressed in Sect (M5N-ES-PLN-PWD-0004). Traffic control plans and stag arrangement during construe undertaken prior to changed Communications Strategy (M
D50		The Proponent must prepare and implement a <b>Construction Parking and Access Strategy</b> to further identify and effectively mitigate impacts resulting from on-and off-street parking changes during construction of the SSI. The Strategy must include, but not necessarily be limited to:	N	N	N	N	N	N	N	Y	Construction	Y	CDS-JV	The Construction Parking an been developed in consultat undertaken with potentially - City of Sydney Council - Inner West Council
D50	(a)	confirmation and timing of the removal of on- and off- street parking associated with construction of the project;												- Roads and Maritime.
D50	(b)	comprehensive parking surveys of all parking spaces to be removed to determine current demand during peak, off-peak, school drop off and pickup, and weekend periods;												The Strategy was submitted
D50	(c)	<b>consultation</b> with affected stakeholders utilising existing on- and off-street parking stock which will be impacted as a result of construction;												
D50	(d)	assessment of the impacts of changes to on- and off- street parking stock taking into consideration outcomes of consultation with affected stakeholders												
D50	(e)	identification of mitigation measures to manage impacts to stakeholders as a result of on and off-street parking changes including, but not necessarily limited to, staged removal and replacement of parking, provision of alternative parking arrangements, managed staff parking arrangements and working with relevant councils to introduce parking restrictions adjacent to work sites and compounds;												

WestConnex New M5



DRAGADOS



an and cyclist access, including the provision of alternate actions 6.10 and 6.11 of the Construction Traffic and Access WD-0004).

ill be maintained during the project where feasible and wise agreed by the relevant property owner or occupier. cted by the SSI will be reinstated to at least an equivalent by the property owner. Changes to access as a result of the Section 6.17 of the Construction Traffic and Access Sub-Plan

staging diagrams will provide details for any access truction. Notification to property owners/occupiers will be ged access arrangements in accordance with the Community (M5N-CS-PLN-PWD-0008).

and Access Strategy (M5N-AJV-TER-100-110-TM-1609) has ltation with affected stakeholders. Consultation has been Illy affected residents and businesses as well as the following:

ed to DP&E on 7/11/16 for approval.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D50	(f)	mechanisms for monitoring over appropriate intervals to determine the effectiveness of implemented mitigation measures;												
D50	(g)	provision of contingency measures should the results of mitigation monitoring indicate implemented measures are ineffective; and												
D50	(h)	provision of reporting of monitoring results to the Secretary and relevant councils at appropriate intervals.												
D50		The Construction Parking and Access Strategy must be submitted to the Secretary for approval prior to the commencement of construction.												
D51		Prior to commencement of any tunnelling works, the Proponent must prepare and implement a <b>Spoil</b> <b>Management Plan</b> for the SSI. The Spoil Management Plan is to be developed, in <b>consultation</b> the relevant council(s), for the approval of the Secretary. The Spoil Management Plan must incorporate detailed information on the handling and transport of spoil generated during construction of the SSI, and provide information regarding each of the broad parameters specified in the documents listed in conditions A2(b) and A2(c). The Spoil Management Plan is to be prepared separate to, but consistent with, the Construction Traffic and Access Management Plan required under condition D68(a).	N	Ν	Ν	Ν	Ν	Ν	Υ	Ν	Prior to tunnelling	Y	CDS-JV	The Spoil Management Plan councils for consultation: - City of Sydney - Georges River - Inner West - City of Botany Bay - Rockdale City Council - Canterbury-Bankstown The Spoil Management Plan
D52		The clearing of native vegetation must be minimised with the objective of reducing impacts to any threatened species, populations and ecological communities to the greatest extent practicable. Impacted vegetation must be rehabilitated with endemic species (in the first instance) and locally native species to the greatest extent practicable.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	The clearing of native vegeta where practicable. The avoid compounds is addressed in tl PWD-0026) and the Tree Rep Site Environmental Plans ider retained during construction will be investigated througho Rehabilitation requirements PLN-PWD-0007) and will be of finalised.
D53		Prior to removing/clearing any vegetation, pre-clearing surveys and inspections for threatened species, populations and ecological communities must be undertaken to confirm the on-site location of those entities. The surveys and inspections, and any subsequent relocation of species and associated management/offset measures, must be undertaken under the guidance of a suitably qualified and experienced ecologist. Methodologies must be incorporated into the Construction Flora and Fauna Management Plan required under condition D68(d) and Ancillary Facilities Management Plan required under condition D57. The agreement of OEH or DPI, whichever is the relevant agency, is required for any proposed amendments to the location or reclassification of threatened species, populations and ecological communities.	Y	Y	Y	Y	Υ	Y	Y	Y	Establishment Construction	N	CDS-JV	Pre-clearing surveys were un containing vegetation to be r actual or potential threatene significant habitat. The result Construction Flora and Fauna All clearing is being conducte Procedure (Appendix B to the a pre-clearance inspection. C in the CFFSP and associated p

WestConnex New M5



DRAGADO



an (M5N-CN-PLN-PWD-0002) was provided to the following

an was approved by DP&E on 23/11/16.

etation is being minimised through design and construction roidance of vegetation during the establishment of ancillary in the Ancillary Facilities Management Plan (M5N-ES-PLN-Reports required under CoA B63.

dentify areas of sensitive vegetation and habitat to be on. Additional opportunities to avoid vegetation clearance ghout construction.

nts are identified in the Flora and Fauna Sub-Plan (M5N-ESbe detailed in the Urban Design and Landscape Plan, once

e undertaken between 10-13 May 2016 for all areas be removed for the project to determine the presence of ened species, populations, ecological communities or other sults of these surveys are included in Appendix F of the nuna Sub-Plan (CFFSP; M5N-ES-PLN-PWD-0007).

ucted in accordance with the CDS-JV Manage Flora and Fauna o the CFFSP), which requires a site-specific permit to clear and n. Consultation requirements with OEH/DPI are also set out ed procedures.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D54		The Proponent must prepare and implement a <b>Construction Contamination Management Plan</b> to manage potential contamination impacts during construction of the SSI (excluding contamination covered by the Landfill Closure Management Plan for the Alexandria Landfill site). The Construction Contamination Management Plan must be developed in consultation with the EPA and relevant councils, and include, but not be limited to:	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	CDS-JV	The Construction Contamina Water and the following cou City of Sydney Georges River Inner West City of Botany Bay City of Rockdale Canterbury-Bankstown The final Construction Conta
D54	(a)	details of construction activities and their locations which have the potential to expose areas known to contain, or potentially contain, contaminated soils and/or materials;												
D54	(b)	details of management measures to minimise bed sediment mobilisation in Alexandra Canal. All measures must comply with the actions required of Remediation Order H01833, 23004/ Area #3151 issued by the EPA on 10 May 2004;												
D54	(c)	measures for the handling, treatment and management of hazardous and contaminated soils, materials and groundwater including measures to manage and/or minimise public health and safety concerns with regards to exposure to contamination;												
D54	(d)	an Unexpected Finds Procedure detailing procedures and management measures to be implemented in the event that contaminated material is uncovered in any area not identified in the documents referred to in conditions A2(b}, A2(c) and A2(e);												
D54	(e)	a description of how the effectiveness of the actions and measures for managing contamination impacts would be monitored during the proposed works, clearly indicating how often this monitoring would be undertaken, the locations where monitoring would take place, and how the results of the monitoring would be recorded and reported; and												
D54	(f)	mechanisms for the monitoring, review and amendment of this Construction Contamination Management Plan.												
D54		The Construction Contamination Management Plan must be submitted to the Secretary prior to undertaking any works which may result in the disturbance of contaminated soil, land or materials.												
D54		Nothing in this condition prevents the Proponent from preparing separate Construction Contamination Management Plans for specific areas of work, rather than a plan which addresses the entire SSI												
D55		Dangerous goods, as defined by the Australian Dangerous Goods Code, must be stored and handled strictly in accordance with:	Y	Y	Y	Y	Y	Y	Y	Y	Construction	Ν	CDS-JV	Part D, Appendix C to the Co PWD-0001) identifies releva goods and hazardous substa
D55	(a)	all relevant Australian Standards;												The relevant requirements for addressed by the approved (
D55	(b)	for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume, within the bund; and												PLN-PWD-0005).

DRAGADOS



SAMSUNG C&T

ination Management Plan was provided to EPA, Sydney councils for consultation:

ntamination Management Plan has been submitted to DP&E.

Construction Environment Management Plan (M5N-ES-PLNevant legislation to the project which includes dangerous istances legislation.

ts for the storage and handling of dangerous goods is ed Construction Soil and Water Quality Sub Plan (M5N-ES-

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D55	(c)	the Environment Protection Manual for Authorised Officers: Bunding and Spill Management, technical bulletin (EPA, 1997).												
D55		In the event of an inconsistency between the requirements listed from (a) to (c) above, the most stringent requirement must prevail to the extent of the inconsistency.												
D56		The Proponent must provide boundary screening within all construction sites that adjoin or are adjacent to residential and/or commercial properties, consistent with the surrounding context, in <b>consultation</b> with affected property owners.	Y	Y	N	Y	Y	Y	Y	Y	Construction	N	CDS-JV	Boundary screening is being i residential and/or commercia approved Ancillary Facilities I acoustic barriers are being in Temporary acoustic barriers as described under CoA D20. The Community Relations tea commercial properties that a establishment of ancillary fac directly affected property ow and community updates for o Comments/feedback regardii considered by CDS-JV and inc
D57		Prior to the establishment of the ancillary facilities described in the documents listed in conditions A2(b) and A2(c), the Proponent must prepare and implement an <b>Ancillary Facilities Management Plan</b> which outlines the environmental management practices and procedures for the establishment and operation of the ancillary facilities. The Ancillary Facilities Management Plan must be prepared in <b>consultation</b> with the EPA and the relevant council and submitted to the Secretary for approval. The Ancillary Facilities Management Plan must detail the management of these ancillary facilities, and include, but not be limited to:	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	Yes	CDS-JV	The Ancillary Facilities Manage submitted to DP&E on 20 Ma describes all construction cor documents in A2(b), A2(c) an
D57	(a)	a description of each ancillary facility (including a site layout plan), its components and details of the existing environment on and in the vicinity of the site;												
D57	(b)	a description of the works proposed to be undertaken during site establishment;												
D57	(c)	details of the activities to be carried out at each facility, including the hours of operation, staging of operation and predicted date of commissioning;												
D57	(d)	a description of the plant, equipment and materials to be used and/or stored on each site, including dangerous and hazardous goods;												
D57	(e)	a summary of the potential environmental impacts associated with the establishment and operation of the facility;												
D57	(f)	details of the mitigation, monitoring and management procedures specific to each facility that would be implemented to minimise environmental and amenity impacts or, where this is not possible, feasible and reasonable measures to offset these impacts;												
D57	(g)	measures to minimise and manage flora and fauna impacts including-												



DRAGADOS



ing installed at ancillary facilities adjoining or adjacent to ercial properties. This is addressed in Section 6.13 of the ies Management Plan (M5N-ES-PLN-PWD-0026). Temporary g incorporated into the boundary screening as required. ers are described in the Temporary Noise Barrier Strategies 20.

s team are undertaking consultation with residential and at adjoin or are adjacent to ancillary facilities, prior to the r facilities. Consultation includes one-on-one meetings with r owners/occupiers as well as door knocking, letter box drops for other residents likely to be impacted as applicable.

arding boundary screening and noise walls has been I incorporated where possible into the final site design plans.

anagement Plan (AFMP; M5N-ES-PLN-PWD-0026) was May 2016 and approved on 23/06/2016. The AFMP compounds and other ancillary facilities, as listed in the ) and A2(d) of the planning approval.

Re	f Sul Re		Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D5	7		<ul> <li>(i) clearing procedures incorporating pre-clearing surveys and inspections and measures for minimising the extent of clearing,</li> </ul>												
D5	7		(ii) measures to protect the remaining portion of Cooks River/Castlereagh Ironbark Forest and ensure that it is not impacted by the establishment and operation of construction compounds,												
D5	7		(iii) procedures for removal and relocation of fauna during clearing, and												
D5	7		construction worker induction and education;												
D5	7 (h)	)	a description of how the management and mitigation measures set out in the documents referred to in conditions A2(b) and A2(c) will be implemented on each site, and if not, justification for any departures from those management and mitigation measures;												
D5	7 (i)		details of the community consultation to be undertaken with affected and adjoining landowners and sensitive receivers												
D5	7 (j)		details on the height and materials of noise barriers/hoardings at each facility;												
D5	7 (k)		identification of the timing for the completion of site activities at each facility and how each site will be decommissioned (including any necessary rehabilitation); and												
D5	7 (I)		mechanisms for the monitoring, review and amendment of the Ancillary Facilities Management Plan.												
D5	7		In considering the approval of the Ancillary Facilities Management Plan, the Secretary will take into account the Proponent's response to public authority and relevant council comments on the plan.												
D5	7		The Proponent must update the Ancillary Facilities Management Plan to incorporate the site establishment and operation practices required for any additional ancillary facilities approved by the Secretary under condition 063.												
D5	7		No construction-related works or activities are to be undertaken on the ancillary facility sites prior to approval of the Construction Environment Management Plan required under condition D67.												
D5	7		For the purposes of this condition, site establishment works does not include:												
D5	7 (a)		piling (except for piling required for the erection of noise barriers around construction compounds); or												
D5	7 (b)	)	the erection of acoustic sheds at ancillary facilities; or												
D5	7 (c)		excavation activities (excluding excavation associated with trenching for services, site levelling for the erection of construction site offices and parking and storage and maintenance sheds; or excavation of sediment ponds for construction sediment and erosion control)												
D5	7		Such works are considered to be construction.												

WestConnex New M5



DRAGADOS



Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D57		Nothing in this condition exempts the Proponent from fulfilling the requirements of any conditions in this approval which require certain plans, programs or actions to be undertaken prior to site establishment works or operation of an ancillary facility proceeding.												
D58		The Ancillary Facilities Management Plan must include an Arncliffe Construction Compound Sub-plan, prepared in consultation with OEH, which includes the following:	N	Y	N	N	N	N	Y	N	Establishment Construction	Y	CDS-JV	An Arncliffe Construction Cor OEH. The sub-plan was subm on 23/06/2016.
D58	(a)	the management measures as specified in rows 4-12 of Table 1 of the Green and Golden Bell Frog Plan of Management presented in Appendix K of Appendix S, Volume 2H of the document referred to in condition A2(b) and any additional measures included in the updated management plan required by condition B14;												
D58	(b)	procedures for decommissioning of the surface water bodies within the construction compound; and												
D58	(c)	a stop-work procedure in the event that Green and Golden Bell Frogs are identified on site.												
D58		The management measures should specifically describe:												
D58	(a)	what information would be included in the site inductions, who would be inducted and the timing and responsibilities for induction;												
D58	(b)	the location and type of erosion and sediment controls to be implemented;												
D58	(c)	the methods for dust suppression;												
D58	(d)	acid sulphate soil management procedures; and												
D58	(e)	hygiene protocol to minimise the potential for the introduction and spread of Chytrid Fungus by plant, equipment, construction vehicles, construction workers and materials.												
D58		The Proponent is not required to consult with the relevant council on the Arncliffe Construction Compound Sub-plan.												
D59		Prior to establishing the Arncliffe construction compound (C7), the Proponent must implement the following management measures as specified in the first three rows of Table 1 of the Green and Golden Bell Frog Plan of Management presented in Appendix K of Appendix S, Volume 2H of the document referred to in condition A2(b):	Ν	Y	N	N	N	N	N	N	Prior to establishment	Ν	CDS-JV	This pre-establishment requi Construction Compound Sub procedures and other manage relocation. The pre-establishment activiti were undertaken on 23-26th was provided on 26/07/2016
D59	(a)	define the construction clearing area;												27/07/2016. Decommissioni
D59	(b)	establish a frog exclusion zone; and												
D59	(c)	undertake pre-clearance survey and salvage activities (i.e. frog collection).												
D59		The Proponent must also establish a procedure for the collection of Green and Golden Bell Frog tadpoles from the existing surface waterbodies at the Kogarah Golf Course that will be impacted by the Arncliffe construction compound, and implement the procedure if tadpoles are present prior to decommissioning of the waterbodies.												



DRAGADOS



Compound Sub-plan has been prepared in consultation with bmitted to DP&E for approval on 20 May 2016 and approved

quirement is addressed in the approved Arncliffe Sub-plan (M5N-ES-PLN-ARN-001), which includes the relevant nagement measures to manage frog and tadpole salvage and

tivities have been undertaken and the pre-clearance surveys 6th July 2016. Written advice from the RMS herpetologist 016 and this advice was submitted to the Secretary DP&E on oning of ponds is complete at the site.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D59		Any salvaged frogs and tadpoles must be either relocated to the RTA ponds or an appropriate holding facility which is staffed by appropriately trained and experienced frog specialists.												
D59		No site establishment or construction-related activities or works are permitted at the proposed Arncliffe construction compound site until such time that the above management measures have been implemented and written notice to this effect has been provided to the Secretary by a suitably qualified and experienced frog specialist.												
D59		The management measures specified in (a) to (c) and above and tadpole collection may be undertaken prior to the Proponent implementing any actions that are required by the conditions set out in Parts B, C, D and E of this approval.												
D60		Site establishment works at ancillary facilities must be undertaken in accordance with the construction hours specified in conditions D12 and D14.	Y	Y	Y	N	N	N	N	N	Establishment	N	CDS-JV	This requirement is address measures specified in Section Management Plan (M5N-ES
D60		Notwithstanding, the following activities can be undertaken outside of the hours specified in conditions D12 and D14.												
D60	(a)	the delivery of materials/equipment/plant where it is required by the police or other authorities for safety reasons;												
D60	(b)	works required in an emergency to avoid the loss of lives, property and/or prevent environmental harm;												
D60	(c)	utility connections where the utility provider requires the connections be performed outside of the specified hours; or works which have the potential to impact on road/traffic safety and must be carried out as a result of RMS Traffic Management Centre requirements												
D61		The Proponent must comply with the requirements of conditions D16, D18, D22 and D24, when establishing ancillary facilities.	Y	Y	Y	Ν	Ν	Ν	N	N	Establishment	N	CDS-JV	The nominated requirement Appendix B of the approved 0026).
D62		Other than ancillary facilities described in the documents listed in conditions A2(b) and A2(c), or those ancillary facilities approved by the Secretary under condition D63, or allowed under condition D64, the location of ancillary facilities must comply with the following locational criteria:	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	An assessment of each ancil Section 5.2 of the approved 0026), and in the case of the (Appendix J to the AFMP). W assessed against the criteria
D62	(a)	be located more than 50 metres from a waterway;												
D62	(b)	be located within or adjacent to land where the SSI is being carried out;												
D62	(c)	have ready access to the road network;												
D62	(d)	be located to minimise the need for heavy vehicles to travel on local streets and/or through residential areas;												
D62	(e)	be sited on relatively level land;												
D62	(f)	be separated from nearest residences by at least 200 metres (or at least 300 metres for a temporary batching plant);												

WestConnex New M5



DRAGADOS



essed by the construction hours and related management ction 5.1.1 and Appendix B of the approved Ancillary Facilities -ES-PLN-PWD-0026).

ents are addressed through the control measures specified in red Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-

ncillary facility against the locational criteria is provided in ed Ancillary Facilities Management Plan (M5N-ES-PLN-PWDthe HV Power works sites, in the AFMP Addendum No. 1 I. Where additional ancillary facilities are proposed they are tria as described in the AFMP.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D62	(g)	not require vegetation clearing beyond that already required by the SSI;												
D62	(h)	not impact on heritage items (including areas of archaeological sensitivity) beyond those already impacted by the SSI;												
D62	(i)	not unreasonably affect the land use of adjacent properties;												
D62	(j)	be above the 20 ARI flood level unless a contingency plan to manage flooding is prepared and implemented; and												
D62	(k)	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.												
D63		Prior to establishment of any ancillary facility not described in the documents listed in conditions A2 (b) and A2(c) and which does not meet the locational criteria in condition D52, the Proponent must prepare and implement a Site-Specific Ancillary Facilities Management Plan. The Site-Specific Ancillary Facilities Management Plan must be prepared for the approval of the Secretary, and include:	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	Y	CDS-JV	The assessment and approva described in Section 4.3 of th ES-PLN-PWD-0026). Where t criteria, or does not comprise ancillary facilities manageme An application for an addition DP&E (9/09/16) and was app
D63	(a)	a detailed description of the ancillary facility, including proposed use and access arrangements;												
D63	(b)	a review of the environmental and social impacts of the ancillary facility, including an analysis of compliance with the locational criteria specified in condition 0;												
D63	(c)	measures to avoid, mitigate and manage environmental and social impacts associated with the ancillary facility; and												
D63	(d)	demonstration that, with the measures proposed in accordance with (c), the impacts of the ancillary site are consistent with –												
D63		(i) the overall project impacts described in documents listed in conditions A2(b) and A2(c) , and												
D63		all relevant conditions of this approval.												
D64		The Secretary'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 D62 of this approval and which:	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	Facilities that are considered approved by the Environmer assessment and approval rec described in Section 4.2.2 of ES-PLN-PWD-0026).
D64	(a)	are located within an active construction zone within the approved SSI footprint; and												Two additional minor ancilla 1. A site at Eve St, Arncliffe, (
D64	(b)	have been assessed by the Environmental Representative to have –												purposes associated with ins 2. A site at Albert St, St Peter
D64	(b)	<ul> <li>(i) 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</li> </ul>												parking and staff amenities.
D64	(b)	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 SSI; and												

WestConnex New M5



DRAGADOS



oval requirements for additional ancillary facilities are of the approved Ancillary Facilities Management Plan (M5Nre the ancillary facility does not comply with the locational prise a minor ancillary facility (condition D64), a site-specific ement plan will be submitted for approval.

itional ancillary facility in Wolli Creek has been submitted to approved subject to conditions on 14/11/16.

red to be minor under this condition will be assessed and nental Representative. The process to determine the requirements for new/amended ancillary facilities is t of the approved Ancillary Facilities Management Plan (M5N-

illary facilities have been approved by the ER to date:

e, (ER approval 24/07/16) required for temporary storage installation of HV power activities.

eters (ER approval 30/09/16) required for minor storage, es.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D64	(c)	have environmental and amenity impacts that can be managed through the implementation of environmental measures detailed in the Construction Environment Management Plan required under condition D66.												
D65		All ancillary facilities and supporting infrastructure must be rehabilitated to at least their pre-construction condition or better, unless otherwise agreed by the landowner where relevant. Where the rehabilitated site is residual land then condition B67 applies.	N	N	N	Y	Y	Y	Y	Y	Construction Post-construction	Ν	CDS-JV	Any ancillary facilities or othe accordance with this requirer Section 7.19 of the approved 0026), and will be described i Residual Land Management F
D66		The privacy of adjoining residential development is to be considered in the design and establishment of ancillary facilities. Where an ancillary facility overlooks residential property, privacy measures will be provided in <b>consultation</b> with the affected property owner.	Y	Y	N	Y	Y	Y	Y	Y	Establishment Construction	N	CDS-JV	Privacy of adjoining developn facilities and consultation wit undertaken where required in implemented during establish of the Ancillary Facilities Man
D67		Prior to the commencement of construction, or as otherwise agreed by the Secretary, the Proponent must prepare and implement a <b>Construction Environmental</b> <b>Management Plan (CEMP)</b> for the SSI. The CEMP is to be prepared in <b>consultation</b> with the, OEH, DPI (Water) and the relevant council(s). The CEMP must outline the environmental management practices and procedures that are to be followed during construction. The CEMP is to be prepared in accordance with the <i>Guideline for the</i> <i>Preparation of Environmental Management Plans</i> ( <i>Department of Infrastructure, Planning and Natural</i> <i>Resources, 2004</i> ). The CEMP must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Construction	Y	CDS-JV	The Project Construction Envi 0001) was provided to OEH, I 3/05/2016: - City of Sydney - Hurstville - Marrickville (now Inner Wes - City of Botany Bay - Rockdale - Canterbury
D67	(a)	a description of activities to be undertaken during construction of the SSI (including staging and scheduling);												The CEMP was submitted to I DP&E on 4/08/16.
D67	(b)	statutory and other obligations that the Proponent is required to fulfil during construction, including approvals, consultations and agreements required from authorities and other stakeholders under key legislation and policies;												
D67	(c)	a description of the roles and responsibilities for relevant employees involved in the construction of the SSI, 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 approval;												
D67	(d)	an environmental risk analysis to identify the key environmental performance issues associated with the construction phase; and												
D67	(e)	details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts (including any impacts arising from the staging of the construction of the SSI). In particular, the following environmental performance issues must be addressed in the CEMP –												
D67	(e)	i. measures to monitor and manage dust emissions including dust from stockpiles, blasting, traffic on												



DRAGADOS



ther sites disturbed by the project will be rehabilitated in irement. Rehabilitation requirements are addressed by red Ancillary Facilities Management Plan (M5N-ES-PLN-PWDed in detail in the Urban Design and Landscape Plan, and the nt Plan, once finalised.

opment has been considered in the design of the ancillary with directly affected property owners/occupiers has been ed in accordance with this condition. Measures will be blishment to maximise privacy, as described in Section 7.12 Management Plan (M5N-ES-PLN-PWD-0026).

Environmental Management Plan (CEMP; M5N-ES-PLN-PWD-H, DPI Water and the following councils for consultation on

/est Council)

to DP&E for approval on 31 May 2016 and was approved by

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
		unsealed public roads and materials tracking from construction sites onto public roads,												
D67	(e)	<ul> <li>measures for the handling, treatment and management of hazardous and contaminated materials (including asbestos),</li> </ul>												
D67	(e)	iii. measures to monitor and manage waste generated during construction including but not limited to general procedures for waste classification, handling, reuse, and disposal, use of secondary waste material in construction wherever feasible and reasonable, procedures or dealing with green waste including timber and mulch from clearing activities. and measures for reducing demand on water resources (including potential for reuse of treated water from sediment control basins);												
D67	(e)	iv. measures to monitor and manage hazard and risks,												
D67	(e)	v. measures to monitor and rectify any impacts to third party property and infrastructure, including details of the process for rectification or compensation of affected landowners, and timeframes for rectification works or compensation processes, and												
D67	(e)	the sub-plans identified in condition D68												
D67		The CEMP must include procedures for its periodic review and update (including the sub-plans required under condition 068), as necessary (including where minor changes can be approved by the Environmental Representative).												
D67		Nothing in this condition prevents the Proponent from preparing a Stockpile Management Protocol as part of the CEMP.												
D67		The CEMP must be submitted for the approval of the Secretary no later than one month prior to the commencement of construction, or as otherwise agreed by the Secretary. The CEMP may be prepared in stages; however, construction works must not commence until written approval of the relevant stage has been received from the Secretary.												
D67		The approval of a CEMP does not relieve the Proponent of any requirement associated with this SSI approval. If there is an inconsistency with an approved CEMP and the conditions of this SSI approval, the requirements of this SSI approval will prevail.												
D68		As part of the CEMP for the SSI, the Proponent must prepare and implement:												
D68	(a)	a <b>Construction Traffic and Access Management Plan</b> to ensure traffic and access controls are implemented to avoid or minimise impacts on traffic, pedestrian and cyclist access, and the amenity of the surrounding environment. The Construction Traffic and Access Management Plan must be developed in consultation with the relevant council(s), emergency services, road user groups, and pedestrian and bicycle user groups, and include, but not be limited to:	Ν	N	N	Y	Y	Y	Y	Y	Construction	Y	CDS-JV	The Construction Traffic and provided to OEH, DPI Water - City of Sydney - Hurstville - Marrickville (now Inner W - City of Botany Bay

WestConnex New M5



DRAGADOS



and Access Sub Plan (CTASP; M5N-ES-PLN-PWD-0004) was ater and the following councils for consultation on 3/05/2016:

<sup>r</sup> West Council)

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D68	(a)	<ul> <li>identification of construction traffic routes</li> <li>including any known road closures and consideration of</li> <li>alternate routes and construction traffic volumes</li> <li>(including heavy vehicle/spoil haulage) on these routes;</li> </ul>												- Rockdale - Canterbury
D68	(a)	<li>ii. details of vehicle movements for construction sites and ancillary facilities including parking, dedicated vehicle turning areas, and ingress and egress points;</li>												The CTASP was also provided
D68	(a)	iii. demonstration that sufficient on-site parking is provided at construction compounds to accommodate all construction staff at any one time,												- NSW State Emergency Serv - NSW Fire and Rescue
D68	(a)	iv. discussion of construction impacts that could result in disruption of traffic, public transport, pedestrian and cycle access, access to public land, property access, including details of oversize load movements, and the nature and duration of those impacts;												<ul> <li>NSW Ambulance</li> <li>NRMA</li> <li>Motorcycle Council of Austr</li> <li>Transport Workers Union</li> </ul>
D68	(a)	v. details of management measures to minimise traffic impacts, including temporary road work traffic control measures, onsite vehicle queuing and parking areas and management measures to minimise peak time congestion and measures to ensure safe pedestrian and cycle access;												<ul> <li>Action for Public Transport</li> <li>Pedestrian Council of Austr</li> <li>Bicycle NSW</li> <li>Bike Sydney</li> </ul>
D68	(a)	vi. details of measures to maintain or provide alternative safe and accessible routes for pedestrians throughout the duration of construction;												- BikEast Inc - Bike Marrickville
D68	(a)	vii. details of measures to maintain connectivity for cyclists, with particular emphasis on providing adequate access between key existing cycle routes for commuter cyclists;												<ul> <li>Bike South West</li> <li>Bikes Botany Bay</li> <li>Cyclists against WestCONne</li> </ul>
D68	(a)	<ul> <li>viii. details of measures to manage traffic</li> <li>movements, parking, loading and unloading at ancillary</li> <li>facilities during out-of-hours work;</li> </ul>												The CTASP was submitted to 27/07/16.
D68	(a)	ix. details of methods to be used to communicate proposed future traffic changes to affected road users, pedestrians and cyclists, consistent with the Community Communication Strategy required under condition C1;												
D68	(a)	<ul> <li>an adaptive response plan which sets out a process for response to any traffic, construction or other incident; and</li> </ul>												
D68	(a)	mechanisms for the monitoring, review and amendment of the Construction Traffic and Access Management Plan.												
D68	(b)	a <b>Construction Noise and Vibration Management Plan</b> to detail how construction noise and vibration impacts will be minimised and managed. The Plan must be consistent with the guidelines contained in the <i>Interim</i> <i>Construction Noise Guidelines (DECC, 2009)</i> . The Construction Noise and Vibration Management Plan must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Construction	Y	CDS-JV	The Project Construction Noi 01F01 WCX_NM5 / M5N-ES- Out-of-hours Protocol) and t - City of Sydney - Hurstville
D68	(b)	<ul> <li>identification of the work areas, site compounds and access points;</li> </ul>												<ul> <li>Marrickville (now Inner We</li> <li>City of Botany Bay</li> </ul>
D68	(b)	<ul> <li>identification of sensitive receivers and relevant construction noise and vibration goals applicable to the SSI and stipulated in the conditions above;</li> </ul>												- Rockdale - Canterbury

WestConnex New M5

DRAGADOS



SAMSUNG C&T

ded to the following groups on 3/5/2016:

rvice

ustralia

ort (ATP NSW) Inc Istralia

Inex

to DP&E for approval on 31/05/16 and was approved on

Noise and Vibration Management Plan (CNVMP; TH014-15 ES-PLN-PWD-0003) was provided to OEH, DPI Water, EPA (for nd the following councils for consultation on 3/05/2016:

Vest Council)

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D68	(b)	iii. details of construction activities and an indicative schedule for construction works, including the identification of key noise and/or vibration generating construction activities (based on representative construction scenarios, including at ancillary facilities) that have the potential to generate noise and/or vibration impacts on surrounding sensitive receivers, particularly residential areas;												The CNVMP was submitted t been updated to address DP approved by DP&E on 7/7/1
D68	(b)	<ul> <li>iv. details of the predicted worst-case noise and vibration levels, including cumulative impacts arising from concurrent construction works and potential for sleep disturbance;</li> </ul>												
D68	(b)	<ul> <li>v. figures illustrating the predicted safe working distances for vibration intensive activities and equipment;</li> </ul>												
D68	(b)	vi. an Out-of-Hours Work Protocol for the assessment, management and approval of works outside of standard construction hours as defined in condition D12 of this approval, for the Secretary's approval. The Out-of-Hours Work Protocol must be prepared in consultation with the EPA and be consistent with the out-of-hours work procedure detailed in the <i>Construction Noise Strategy</i> (Transport Construction Authority, 2011) and-												
D68	(b)	<ul> <li>provide an assessment of out-of-hours works against the relevant noise and vibration criteria,</li> </ul>												
D68	(b)	B. provide detailed mitigation measures for any residual impacts (that is, additional to general mitigation measures), including extent of at-receiver treatments, and												
D68	(b)	C. set out proposed notification arrangements;												
D68	(b)	vii. justification for any construction works proposed to be undertaken within the Alexandria Landfill site outside of the construction hours specified in condition D12 and which do not meet the requirements of either conditions D13 and D15;												
D68	(b)	viii. identification of feasible and reasonable 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 (including heritage items) where blasting and/or vibration is likely to result in damage to buildings and structures (including surveys being undertaken immediately following a monitored exceedance of the criteria);												
D68	(b)	ix. details of tunnelling including associated impacts, management and mitigation measures;												



DRAGADOS



ted to DP&E for approval on 27 May 2016. The CNVMP has s DP&E comments and Revision 19 of the CNVMP was /7/16.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D68	(b)	x. Identification of feasible and reasonable measures proposed to be implemented minimise and manage construction noise and vibration impacts, especially sleep disturbance (including construction traffic noise impacts), including, but not limited to, acoustic enclosures, erection of noise walls (hoardings), at-property architectural treatments, respite periods and the limiting of truck movements during night periods including:												
D68	(b)	<ul> <li>(A) consideration of mitigation measures for sensitive receivers adjoining Campbell Road, Campbell Street and Euston Road,</li> </ul>												
D68	(b)	(B) the identification of receivers eligible for at- property acoustic treatment for the mitigation and management of operational noise (at-property acoustic treatments are to be installed prior to construction),												
D68	(b)	(C) the identification of receivers eligible for alternative accommodation as determined by the criteria identified within Table 12-49 of the EIS described within condition A2 (inclusive of the consideration and identification of shift workers for alternate accommodation), and												
D68	(b)	(D) the outcomes of community consultation regarding the implementation of any temporary noise barriers developed in accordance with condition D20												
D68	(b)	xi. a description of how the effectiveness of mitigation and management measures would be monitored during the proposed works, clearly indicating how often this monitoring would be conducted, the locations where monitoring would take place, how the results of this monitoring would be recorded and reported, and, if any exceedance is detected, how any noncompliance would be rectified;												
D68	(b)	xii. evidence that the EPA has been consulted on the Out-of-Hours Work Protocol and where and how any issues raised by, or requirements of the, EPA have been addressed; and												
D68	(b)	mechanisms for the monitoring, review and amendment of the Construction Noise and Vibration Monitoring Plan.												
D68	(c)	a <b>Construction Heritage Management Plan</b> to ensure, and provide detail of how, construction impacts on Aboriginal and non-Aboriginal heritage will be appropriately minimised and managed. The Construction Heritage Management Plan must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Construction	Y	CDS-JV	The Project Construction He provided to OEH, DPI Water Aboriginal Land Council, and - City of Sydney - Hurstville
D68 D68	(c) (c)	<ul> <li>i. in relation to Aboriginal Heritage –</li> <li>A. procedures for dealing with previously unidentified 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 OEH, and Aboriginal stakeholders, and assessment of the consistency of any Aboriginal heritage impacts against the approved impacts of the SSI,</li> </ul>												<ul> <li>Marrickville (now Inner We</li> <li>City of Botany Bay</li> <li>Rockdale</li> <li>Canterbury</li> <li>The CHSP has been prepare</li> <li>2016. The CHSP was approv</li> </ul>



DRAGADOS



n Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006) was /ater, the Heritage Council of NSW, the Metropolitan Local , and the following councils for consultation on 3/05/2016:

West Council)

ared and was submitted to DP&E for approval on 30 May proved by DP&E on 2/08/2016.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D68	(c)	B. procedures for dealing with human remains, including cessation of works in the vicinity, notification of, NSW Police Force, OEH and Aboriginal stakeholders, and commitment to cease recommencing any works in the area unless authorised by OEH and/or the NSW Police Force,												
D68	(c)	C. heritage training and induction processes for construction personnel (including procedures for keeping records of inductions and obligations under this approval) including site identification, protection and conservation of Aboriginal cultural heritage, and												
D68	(c)	D. procedures for ongoing Aboriginal consultation and involvement for the duration of the SSI, in the event that previously unidentified Aboriginal objects are discovered; and												
D68	(c)	ii. In relation to non-Aboriginal Heritage –												
D68	(c)	A. identification of heritage items directly and indirectly affected by the SSI,												
D68	(c)	B. details of management measures to be implemented to prevent and minimise impacts on heritage items (including further heritage investigations, archival recordings and/or measures to protect unaffected sites during construction works in the vicinity),												
D68	(c)	C. details of monitoring and reporting requirements for impacts on heritage items,												
D68	(c)	D. procedures for dealing with previously unidentified heritage objects and relics, 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 recommence by a suitably qualified and experienced archaeologist in consultation with the Heritage Council of NSW, and assessment of the consistency of any heritage impacts against the approved impacts of the SSI,												
D68	(c)	E. processes and mechanisms for the reuse and recycling of building and landscape components from contributory, potential and locally listed heritage items within other built or landscaped components of the SSI, and												
D68	(c)	F. heritage training and induction processes for construction personnel (including procedures for keeping records of inductions and obligations under this approval) including site identification, protection and conservation of non-Aboriginal cultural heritage; and												
D68	(c)	iii. mechanisms for the monitoring, review and amendment of the Construction Heritage Management Plan.												
D68	(c)	The Construction Heritage Management Plan must be developed in <b>consultation</b> with the OEH, Heritage Council of NSW (for non-Aboriginal heritage) and Registered Aboriginal Groups (for Aboriginal heritage).												

WestConnex New M5



DRAGADOS



Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
D68	(d)	a <b>Construction Flora and Fauna Management Plan</b> to detail how construction impacts on ecology will be minimised and managed. The Construction Flora and Fauna Management Plan must be endorsed by a suitably qualified and experienced ecologist and be prepared in <b>consultation</b> with the OEH, and must include, but not be limited to:	Ν	N	N	Y	Y	Y	Y	Y	Construction	Y	CDS-JV	The Project Construction Flo was provided to OEH, DPI W 3/05/2016: - City of Sydney - Hurstville - Marrickville (now Inner We
D68	(d)	<ul> <li>i. detailed maps showing the location of impacted and adjoining flora and fauna habitat areas;</li> </ul>												- City of Botany Bay
D68	(d)	<ul> <li>detailed maps showing where pre-clearing surveys will be undertaken to confirm the location of threatened species, populations and ecological communities;</li> </ul>												- Rockdale - Canterbury
D68	(d)	<ul> <li>iii. the identification of areas to be impacted and details of management measures to avoid residual habitat damage or loss and to minimise or eliminate time lags between the removal and subsequent replacement of habitat such as –</li> </ul>												The CFFSP was prepared and CFFSP was approved by DP8
D68	(d)	<ul> <li>A. clearing minimisation procedures (including fencing),</li> </ul>												
D68	(d)	B. clearing procedures,												
D68	(d)	C. removal and relocation of fauna during clearing,												
D68	(d)	D. habitat tree management,												
D68	(d)	E. fauna fencing, and												
D68	(d)	F. construction worker education;												
D68	(d)	iv. the management measures as specified in Table 2 and rows 4-12 of Table 1 of the Green and Golden Bell Frog Plan of Management presented in Appendix K of Appendix S, Volume 2H of the document referred to in condition A2(b) and in the updated management plan required by condition B14,												
D68	(d)	v. details of the measures to be implemented to prevent impacts to the retained Green and Golden Bell Frog habitat at the Kogarah Golf Course and Marsh Street ponds including, but not limited to types and amounts of materials to be stored at the sites, bunding around the stores, erosion and sediment control measures and dust suppression measures,												
D68	(d)	vi. proposed monitoring for the Green and Golden Bell Frog population at the Kogarah Golf Course in accordance with the updated management plan required by condition B14,												
D68	(d)	vii. details of the specific measures that would be implemented to protect the remaining portion of Cooks River/Castlereagh Ironbark Forest and ensure that it is not impacted by site establishment and construction activities,												
D68	(d)	viii. rehabilitation details, including identification of flora species and sources, and measures for the management and maintenance of rehabilitated areas;												



DRAGADOS



Flora and Fauna Sub-Plan (CFFSP; M5N-ES-PLN-PWD-0007) I Water and the following councils for consultation on

West Council)

and submitted to DP&E for approval on 27 May 2016. The P&E on 20/7/2016.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D68	(d)	ix. Noxious Weed and Pathogen Management Strategy, incorporating weed management measures focusing on early identification of invasive weeds and effective management controls, controls to prevent the introduction or spread of Phytophthora cinnamomi and myrtle rust (Puccinia psidii s./.), frog hygiene protocol to control the introduction of the Chytrid fungus (Batrachochytrium dendrobatidis), and predatory fish in Green and Golden Bell Frog habitat at Arncliffe,												
D68	(d)	<ul> <li>where works impact on riparian land, a Vegetation Management Plan consistent with the DPI (2012)</li> <li>Guidelines for Vegetation Management Plans on Waterfront Land including (but not limited to),</li> </ul>												
D68	(d)	xi. the monitoring of the condition of groundwater dependent ecosystems in Bardwell Valley Parkland and Broadford Street Reserve (Hinterland Sandstone Gully Forest) and Stotts Reserve (Coastal Sandstone Ridgetop Woodland),												
D68	(d)	xii. a nest box plan which addresses the replacement of hollows removed during the construction of the SSI,												
D68	(d)	xiii. a description of how the effectiveness of the flora and fauna management measures would be monitored;												
D68	(d)	<ul> <li>xiv. a procedure for dealing with unexpected threatened species, populations and ecological communities identified during construction, including cessation of work and notification to the OEH, determination of appropriate mitigation measures in consultation with the OEH (including relevant re-location measures) and updating of ecological monitoring and/ or biodiversity offset requirements; and</li> </ul>												
D68	(d)	mechanisms for the monitoring, review and amendment of the Construction Flora and Fauna Management Plan.												
D68	(e)	a <b>Construction Air Quality Management Plan</b> to detail how construction impacts on local air quality will be minimised and managed. The Construction Air Quality Management Plan must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Construction	Y	CDS-JV	The Project Construction Air provided to OEH, DPI Water - City of Sydney - Hurstville
D68	(e)	<ul> <li>identification of sources (including stockpiles and open work areas) and quantification of airborne pollutants including odour;</li> </ul>												- Marrickville (now Inner We - City of Botany Bay
D68	(e)	<ul> <li>key performance indicators for local air quality during construction;</li> </ul>												- Rockdale - Canterbury
D68	(e)	iii. details of air quality monitoring methods, including location, frequency and duration of monitoring;												The CAQSP was prepared an CAQSP was approved by DP
D68	(e)	iv. methods for assessing meteorological conditions and measures that would be implemented during adverse meteorological conditions;												
D68	(e)	v. best practice management mitigation measures to minimise impacts on local air quality including, but not limited to, the relevant revised environmental mitigation measures set out in the documents listed in condition A2(c);												

WestConnex New M5



DRAGADOS



Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002) was ter and the following councils for consultation on 3/05/2016:

West Council)

l and submitted to DP&E for approval on 27 May 2016. The DP&E on 4/7/2016.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
D68	(e)	vi. measures for minimising the release of construction emissions from the site, including plant and equipment;												
D68	(e)	vii. procedures for record keeping and reporting against key performance indicators;												
D68	(e)	viii. provisions for implementation of additional mitigation measures in response to issues identified during monitoring and reporting; and												
D68	(e)	mechanisms for the monitoring, review and amendment of the Construction Air Quality Management Plan.												
D68	(f)	a <b>Construction Soil and Water Management Plan</b> to manage surface and groundwater impacts during construction of the SSI. The Construction Soil and Water Management Plan must be developed in consultation with DPI (Water) and the relevant councils, and include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Construction	Y	CDS-JV	The Project Construction Soil PWD-0005) was provided to C consultation on 3/05/2016: - City of Sydney - Hurstville
D68	(f)	<ul> <li>details of construction activities and their locations, which have the potential to impact on water courses and riparian land, storage facilities, stormwater flows, and groundwater, including identification of all pollutants that may be introduced into the water cycle;</li> </ul>												<ul> <li>Marrickville (now Inner Wes</li> <li>City of Botany Bay</li> <li>Rockdale</li> <li>Canterbury</li> </ul>
D68	(f)	<ul> <li>processes to ensure that Water Quality Pond</li> <li>No.2 at Arncliffe is not decommissioned until</li> <li>replacement water quality devices are operational;</li> </ul>												The CSWQSP was prepared ar CSWQSP was approved by DP
D68	(f)	<ul> <li>iii. potential impacts on watercourse bank stability and the development of appropriate mitigation measures as required;</li> </ul>												
D68	(f)	<ul> <li>iv. measures to manage and/or minimise sediment and erosion, groundwater impacts and surface water quality impacts (including stormwater runoff and groundwater treatment);</li> </ul>												
D68	(f)	v. where acid sulfate soils are known to occur or potentially occur, an Acid Sulfate Soils Management Plan, including measures for the management, handling, treatment and disposal of acid sulfate soils, including monitoring of water quality at acid sulfate soils treatment areas, should the project impact on acid sulfate soils;												
D68	(f)	vi. a description of how the effectiveness of the actions and measures for managing soil and water impacts would be monitored during the proposed works, clearly indicating how often this monitoring would be undertaken, the locations where monitoring would take place, how the results of the monitoring would be recorded and reported, and, if any exceedance of the criteria is detected how any non-compliance can be rectified; and												
D68	(f)	mechanisms for the monitoring, review and amendment of this Construction Soil and Water Management Plan.												
E1		The provision, operation and maintenance (including all auditing and validation of data) of all air quality monitoring and reporting must be funded by the Proponent.	N	N	N	N	N	N	N	N	Operation	N	WCX M5 AT CDS-JV	The Proponent has made allo

WestConnex New M5



DRAGADOS



I Soil and Water Quality Sub-Plan (CSWQSP; M5N-ES-PLNd to OEH, DPI Water and the following councils for 16:

West Council)

ed and submitted to DP&E for approval on 27 May 2016. The y DP&E on 15/7/2016.

allowance for this condition.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E2		The Proponent must monitor (by sampling and obtaining results by analysis) the pollutants, within the tunnel using the methodologies and frequency specified in Table 4 throughout the operation of the SSI. Monitoring must commence on the first day of operation of the SSI.	N	N	N	N	N	N	N	N	Operation	N	WCX M5 AT CDS-JV	This CoA applies to the opera quarterly Construction Comp Monitoring will commence o with the Operational Environ
E2		Table 4 - In Tunnel monitoring methodology (refer sheet 2)												
E2		Note: 1. Special Method 1 means a method approved by the Secretary in consultation with the EPA.												
E3		The number and location of the monitoring stations inside the tunnel must be determined to permit an accurate calculation, per the requirements of conditions E4, E5 and E6, and be independently verified in accordance with a methodology approved by the Secretary in <b>consultation</b> with the EPA, at least six months prior to the operation of the SSI. As a minimum, monitoring stations must be installed at the entry portals, the base of the ventilation outlets, tunnel and ramp junctions and at the emergency smoke extraction facility. All sampling points and visibility monitoring points established under this condition must be audited at least two months prior commencing monitoring, for compliance with the requirements set out in Table 4. Verification and compliance auditing is to be undertaken by an independent person(s) or organisation(s) whose appointment has been approved by the Secretary. Air quality data is to be made available in as close to real time as possible, under the website reporting requirements of condition E24.	Ν	Ν	Ν	Ν	Ν	Ν	Y	N	Operation	Y	WCX M5 AT CDS-JV	This CoA applies to the detai operational phase of the Pro Compliance Reports and Pre
E4		The Proponent must ensure that the average concentrations of CO and N02, calculated along the length of the tunnel, do not exceed the concentration limit specified for that pollutant in Table 5.	N	N	N	N	N	N	N	N	Operation	N	WCX M5 AT CDS-JV	This CoA relates to the opera with the Compliance Trackin
E4		Table 5 - In-tunnel average limits along length of tunnel (refer sheet 2)												
E5		The Proponent must ensure that the concentration of CO as measured at any single point in the tunnel must not exceed the concentration limit specified for that pollutant in Table 6 under all conditions (including congested conditions).	N	N	N	N	N	N	N	N	Operation	Ν	WCX M5 AT CDS-JV	This CoA relates to the opera with the Compliance Trackin
E5		Table 6 - In-tunnel single point exposure limits (refer sheet 2)												
E6 E6		The tunnel ventilation system must be designed and operated so that the visibility in the tunnel does not exceed the level specified in Table 7. <b>Table 7 - In-tunnel visibility limits along length of tunnel</b>	N	N	N	N	N	N	N	N	Design Operation	N	WCX M5 AT CDS-JV	This CoA applies to the detai operational phase of the Pro Compliance Reports, the Pre operational reports as requir
E7		Prior to commencing operation, an independent person or organisation whose appointment has been <b>approved</b> by the Secretary must:	N	N	N	N	N	N	N	N	Prior to operation	Y	WCX M5 AT CDS-JV	This condition will be implen Secretary of the independen Compliance report.
E7	(a)	verify that compliance with in-tunnel limits detailed in Table 5, Table 6 and Table 7, will:												



DRAGADOS



perational phase of the Project and will be reported on in the populance Reports and Pre-Operational Compliance Report. se on the first day of operation of the Project in accordance ironmental Management Plan

etailed design of the tunnel air quality monitoring system and Project and will be reported on in the quarterly Construction Pre-Operational Compliance Report.

perational phase of the project and will be reported on in line king Program.

perational phase of the project and will be reported on in line king Program.

etailed design of the tunnel air quality monitoring system and Project and will be reported on in the quarterly Construction Pre-Operational Compliance Report and subsequent quired in the Compliance Tracking Program.

lemented prior to operation following approval by the dent person. Progress will be reported in the Pre-Operation

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E7	(a)	<ul> <li>(i) supplement/not preclude compliance with the predicted air quality outcomes presented in the documents referred to in condition A2, and</li> </ul>												
E7	(a)	<ul> <li>(ii) not result in air quality impacts greater than predicted in the documents referred to in condition A2;</li> </ul>												
E7	(b)	assess how the ventilation system has been optimised, taking into consideration energy requirements and air quality impacts for tunnel users; and												
E7	(c)	validate recorded monitoring data and certify compliance with the in-tunnel air quality limits.												
E7		The information required in this condition will be made available to the Secretary on request.												
E8		In addition to the general reporting requirements specified in condition E23, the Proponent must <b>notify</b> the Secretary, EPA and NSW Health of any recordings above the limits specified in conditions E4, E5 and E6 within 24 hours of the recorded event. The notification must detail the nature of the event, the concentration or visibility levels that occurred, the duration of the event, and the measures employed to minimise the concentration levels and/or improve the visibility levels.	N	N	Ν	N	N	N	N	N	Operation	N	WCX M5 AT CDS-JV	This CoA relates to an opera Environmental Managemen Pre-Operation Compliance r
E8		This notification must provide details of the circumstances of the event, including:												
E8	(a)	the nature and location of the event, including any details relating to the cause;												
E8	(b)	the duration of the event;												
E8	(c)	the extent and severity of the event;												
E8	(d)	the measures employed to minimise the concentration levels, and measures to improve visibility levels in the event that visibility levels were above the specified limit; and												
E8	(e)	the frequency of the event, including whether an event with the same or similar circumstances has occurred previously.												
E8		Based on consideration of the circumstances of the event, the Secretary may request the Proponent to prepare a Tunnel Air Quality Management Systems Effectiveness Report, in accordance with condition E9.												
E9		Within 20 working days of any request by the Secretary under condition E8, the Proponent must prepare and submit to the Secretary a <b>Tunnel Air Quality</b> <b>Management Systems Effectiveness Report</b> on the overall system performance and cause and major contributor of any exceedances, including:	N	N	N	N	N	N	N	N	Operation	Ν	WCX M5 AT CDS-JV	This CoA relates to an opera such request by the Secreta operational compliance rep
E9	(a)	the overall performance and concentration levels in the tunnel for the preceding six month period (or since commencement of operation, where the SSI has operated for under six months), including average and maximum levels and time periods;												
E9	(b)	details of any instances throughout the operation of the SSI where pollutant concentration levels in the tunnel have exceeded the limits specified in conditions E4, E5 and E6; and												

WestConnex New M5



DRAGADOS



perational requirement and will be included in the Operational nent Plan. Progress will be reported where applicable, in the ce report.

erational requirement. The Proponent will comply with any etary. Any such request will be reported on in the subsequent eport.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
E9	(c)	consideration of improvements to the tunnel air quality management system.												
E9		The Tunnel Air Quality Management Systems Effectiveness Report is to be prepared by the Proponent and reviewed by a suitably qualified and experienced independent specialist(s) whose appointment has been approved by the Secretary.												
E9		The Proponent must comply with any requirements arising from the Secretary's review of the Tunnel Air Quality Management Systems Effectiveness Report.												
E10		The Proponent must monitor (by sampling and obtaining results by analysis) the pollutants and parameters specified in Table 8 at the following locations as a minimum:	N	Ν	N	N	N	N	Ν	N	Operation	Ν	WCX M5 AT CDS-JV	This CoA relates to an oper included in the Operationa in the Pre-Operation Comp
E10	(a)	two ground level receptors near the Kingsgrove ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet;												
E10	(b)	two ground level receptors near the Arncliffe ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet;												
E10	(c)	two ground level receptors near the St Peters ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet;												
E10	(d)	one location within the vicinity of the St Peters Interchange, as a location suitable for detecting any impact on air quality within the surrounding residential receptors; and												
E10	(e)	one location, away from any of the locations at (a) to (d), suitable for providing background ambient air quality reference data for the project area.												
E10		The Proponent must use the sampling method, units of measure, and sampling frequency specified in Table 8.												
E10		Table 8 - Ambient Air Quality Monitoring Methodologies (refer sheet 2)												
E10		<ul> <li>Notes:</li> <li>1. Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (EPA, 2007) or as otherwise agreed to in writing by the Secretary in consultation with the EPA.</li> <li>2. AS3580.9.8-2008, Methods for the Sampling and Analysis of Ambient Air – Determination of Suspended Particulate Matter – PM10 Continuous Direct Mass Method using Tapered Element Oscillating Microbalance Analyser (Standards Australia, 2008).</li> <li>3. AS 3580.9.13-2013, Methods for the Sampling and Analysis of Ambient Air – Determination of Suspended Particulate Matter – PM2.5 Continuous Direct Mass Method using a Tapered Element Oscillating Microbalance Analyser (Standards Australia, 2013).</li> <li>4. TBD - location for meteorological monitoring station(s) to be representative of weather conditions likely to occur in the vicinity of the Kingsgrove, Arncliffe and St Peters ventilation outlets.</li> <li>5. Appropriately modified to include size selective inlet for PM2.5 or as otherwise approved by the Secretary.</li> </ul>												

WestConnex New M5



DRAGADOS



perational requirement. These reporting requirements will be onal Environmental Management Plan and will be reported on mpliance Report and the operational compliance reports.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E11		The monitoring locations must be selected with the objective of achieving like-to-like comparison of monitoring results with available pre-construction data. The locations must also allow for the independent team of experts to review the accuracy of predicted environmental outcomes discussed in the documents referred to in conditions A2(b) and A2(c) as part of the environmental audit required under condition E51. All monitoring stations must be established in locations agreed to by the AQCCC and subject to the land owner's and occupier's agreement. The establishment and operation of the stations is to be undertaken in accordance with recognised Australian standards and undertaken by an organisation accredited by NATA for this purpose and <b>approved</b> by the Secretary in <b>consultation</b> with the EPA and the AQCCC. The quality of the monitoring results must be assured through a NATA accredited process prior to the data being considered as a basis for compliance/auditing purposes.	N	N	N	N	N	N	N	N	Design Operation	Y	WCX M5 AT CDS-JV	Monitoring locations will be like-to-like comparison with Quarterly Construction Com Report.
E12		Monitoring results must be made publicly available and must be subject to an independent audit at six-monthly intervals (or at a longer interval, if approved by the Secretary). The auditor must be <b>approved</b> by the Secretary in <b>consultation</b> with the EPA and the AQCCC, and the auditor's report must be directly provided to the Proponent and the AQCCC.	N	N	N	N	N	N	N	N	Operation	Y	WCX M5 AT CDS-JV	This CoA relates to an operat addressed in the Operationa Pre-Operation Compliance R
E13		The Proponent must commence monitoring for at least twelve continuous months prior to operation and continue monitoring for at least two years following the commencement of operation. At the conclusion of the two year operational monitoring period, the Proponent must review the need for the commencement of the continuation of the ambient monitoring stations in <b>consultation</b> with the AQCCC. Any recommendation to close any or all of the stations will require the <b>approval</b> of the Secretary in <b>consultation</b> with the EPA.	N	N	N	N	N	N	N	N	12 months prior to operation	Y	WCX M5 AT CDS-JV	This CoA relates to a pre-ope requirements will be address the Pre-Operation Compliand reports.
E14		Should ambient monitoring of air pollutants exceed the following goals, the provisions of conditions E15, E16 and E17 will apply:	N	N	N	N	N	N	N	N	Operation	N	WCX M5 AT RMS CDS-JV	This CoA relates to an operat Operational Environmental N
E14	(a)	CO – 8 hour rolling average of 9.0 ppm (NEPM);												
E14	(b)	NO2 – One hour average of 0.12 ppm (245 μg/m3) (NEPM);												
E14	(c)	PM10 – 24 hour average of 50 μg/m3 (NEPM);												
E14	(d)	PM2.5 – 24 hour average of 25 µg/m3 (NEPM)												
E14	(e)	PM10 – annual average of 25 $\mu g/m3$ (NEPM); and												
E14	(f)	PM2.5 – annual average of 8 μg/m3 (NEPM)												
E15		In addition to the general reporting requirements specified in condition E23, the Proponent must prepare an <b>Ambient Air Quality Goal Protocol</b> for the evaluation of a potential measurement that exceeds the goals. The Ambient Air Quality Goal Protocol must be developed by the Proponent in <b>consultation</b> with the AQCCC and submitted to the Secretary for <b>approval</b> at least 12 months prior to the commencement of operation of the SSI.	N	N	N	N	N	N	N	N	12 months prior to operation	Y	WCX M5 AT RMS CDS-JV	This CoA relates to a pre-ope submitted to the Secretary fo Project. This will be reported



DRAGADOS



be selected in locations agreed to by the AQCCC that allow ith pre-construction data. Locations will be reported in ompliance Reports and the Pre-Operational Compliance

erational requirement. These reporting requirements will be onal Environmental Management Plan and reported on in the e Report.

operational and operational requirement. These reporting ressed in the Operational Environmental Management Plan, iance Report and subsequent operational compliance

erational requirement. These limits will be included in the al Management Plan.

operation requirement which will be developed and y for approval at least 12 months prior to operation of the ted on in the Pre-Operation Compliance Report.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E15		The Ambient Air Quality Goal Protocol must include:												
E15	(a)	the form of and process for providing a Notification of Above-Goal Recording, subject to condition E16;												
E15	(b)	the form and contents of a Report on Above-Goal Recording, subject to condition E17;												
E15		and												
E15	(c)	a process for appointing an independent person/organisation to prepare the Report on Above- Goal Reading. The process must include –												
E15		(i) approval of the independent person/organisation by the Secretary prior to preparation of the report, and												
E15		(ii) the appointment of the independent person/organisation at least with the agreement of the Secretary.one month prior to the commencement of operation, or at some other time prior to preparation of the report												
E16		The Ambient Air Quality Goal Protocol must provide a <b>Notification of Above-Goal Recording</b> if ambient monitoring of air pollutants records an exceedance of the goals in condition E14. The Notification of Above- Goal Recording is to be submitted within 24 hours of the recording, to the Secretary, EPA and NSW Health. The Notification of Above-Goal Recording must detail:	N	N	N	N	N	N	N	N	Operation	Ν	WCX M5 AT CDS-JV	This CoA relates to a pre-ope submitted to the Secretary f Project. This will be reported
E16	(a)	the nature of the event;												
E16	(b)	the concentration or visibility levels that occurred;												
E16	(c)	the duration of the event;												
E16	(d)	the measures employed to minimise the concentration levels and/or improve the visibility levels; and												
E16	(e)	the Proponent's commitment to prepare and submit a Report on Above-Goal Recording in accordance with condition E17.												
E17		Within 20 working days of any Notification of Above- Goal Recording, the Proponent must prepare and submit to the Secretary a Report on Above-Goal Recording that details the cause and major contributor of the exceedance and the options available to prevent recurrence. Where the operation of the tunnel is identified to be a significant contributor to the recorded above-goal reading, the Report on Above-Goal Recording must include consideration of improvements to the tunnel air quality management system so as to achieve compliance with the ambient air quality goals, including but not limited to installation of the additional ventilation management facilities allowed for under condition 85, and discussion of whether those improvements are feasible and reasonable. The Proponent must comply with any requirements arising from the Secretary's review of the Report on Above-Goal Recording.	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Operation	Ν	WCX M5 AT CDS-JV	This condition will be include operational phase of the Pro the subsequent operational

WestConnex New M5



DRAGADOS



operation requirement which will be developed and ry for approval at least 12 months prior to operation of the rted on in the Pre-Operation Compliance Report.

uded in the Protocol and activated as required during the Project. Any activation of this condition will be reported on in nal compliance report.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E18		The Proponent must install monitoring equipment to monitor pollutants from the ventilation outlets. Pollutant monitoring from the ventilation outlets (by sampling and obtaining results by analysis) must be in accordance with the methods and frequencies for the pollutants and parameters specified in Table 9 and be undertaken at commencement of and throughout the operation of the SSI. The monitoring equipment must be independently audited prior to the commencement of monitoring for compliance with the requirements set out in Table 9. The independent person(s) or organisation(s) must be <b>approved</b> by the Secretary and paid for by the	Ν	N	N	N	N	N	Υ	Ν	Construction Operation	Y	WCX M5 AT RMS CDS-JV	Design and specification of v accordance with this condition Monitoring Report. The prop Secretary for approval prior on in the Pre-Operation Com
E18		Proponent. Table 9 - Ventilation Outlet Emission Monitoring												
E18		Methodologies (refer sheet 2) Notes: 1. Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (EPA 2007) or an alternative method approved by the Secretary in consultation with the EPA. 2. Must include, but not be limited to: Benzene, Toluene, Xylenes, 1,3-Butadiene, Formaldehyde and Acetaldehyde. 3. Must include, but not limited to; 16 USEPA priority PAHs, namely; Naphthalene, Phenanthrene, Benz(a)anthracene, Benzo(a)pyrene, Acenapthylene, Anthracene, Chrysene, Indeno(1,2,3-cd)pyrene, Acenaphthene, Fluoranthene, Benzo(b)fluoranthene, Dibenz(a,h)anthracene, Fluorene, Pyrene, Benzo(k)fluoranthene, Benzo(g,h,i)perylene. 4. Special Method 1 means a method approved by the Secretary in consultation with the EPA.												
E19		The concentration of a pollutant discharged from the ventilation outlets must not exceed the respective limits specified for that pollutant in Table 10.	N	N	N	N	N	N	N	N	Operation	Ν	WCX M5 AT RMS CDS-JV	This CoA relates to an operat Operational Environmental N Operational Compliance Rep
E19		Table 10 - Ventilation Outlet Mass Pollutant Concentrations (refer sheet 2)												
E20		An independent person or organisation <b>approved</b> by the Secretary must:	N	N	N	N	N	N	N	N	Operation	Y	WCX M5 AT RMS CDS-JV	This CoA relates to an opera recommended by the propo commencement of operatio addressed in the Operationa
E20	(a)	verify that compliance with ventilation outlet limits detailed in Table 10 will -												
E20	(a)	(i) supplement/not preclude compliance with the predicted air quality outcomes presented in the documents referred to in conditions A2(b) and A2(c), and												
E20	(a)	<ul> <li>(ii) not result in air quality impacts greater than predicted in the documents referred to in conditions A2(b) and A2(c);</li> </ul>												
E20	(b)	assess how ventilation outlet discharge velocities have been optimised taking into consideration energy requirements and air quality impacts at all sensitive receivers; and,												
E20	(c)	validate recorded monitoring data and certify compliance with the ventilation outlet limits.												

Revision 04 Page 86 of 99



DRAGADOS



of ventilation outlet monitoring equipment will be in dition. This design will be detailed in the In-Stack Air roposed Independent Auditor will be submitted to the for to the commencement of operation and will be reported compliance Report.

erational requirement. These limits will be included in the al Management Plan, which will be reported on in the Pre-Report.

erational requirement. An independent verifier will be ponent, for approval of the Secretary, prior to the tion. The requirements for independent verification will be onal Environmental Management Plan.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E20		The information required in this condition must be made available to the Secretary on request.												
E20		The ventilation outlet limits detailed in Table 10 must be reviewed on a five-yearly basis following commencement of operation of the SSI and may be lowered (i.e. made more stringent), subject to a sustainability assessment and there being improvements in vehicle fleet emissions, if the Proponent is directed to do so by the Secretary following consultation with the EPA.												
E21		Should the results of monitoring show that any of the ventilation outlet limits specified in condition E19 have been exceeded, the Proponent must <b>notify</b> the Secretary, EPA and NSW Health within 24 hours of the recorded event. The notification must be followed up with a detailed report within 20 working days, which must be prepared by the Proponent, reviewed by a suitably qualified and experienced independent specialist(s), and submitted to the Secretary, on the cause and major contributor of the exceedance and the options available to prevent recurrence. The Secretary must approve the independent person/organisation prior to the commencement of operation, or at some other time prior to preparation of the report. Where the operation of the tunnel is identified to be a significant contributor to the recorded exceedance, this report must include consideration of improvements to the tunnel air quality management system so as to achieve compliance with the ambient air quality goals, including but not limited to installation of the additional ventilation management facilities allowed for under condition 85, and discussion of whether those improvements are feasible and reasonable. The Proponent must comply with any requirements arising from the Secretary's review of the Report.	Ν	N	Ν	Ν	N	N	N	N	Operation	Y	WCX M5 AT RMS CDS-JV	This condition relates to ope necessary, and reported on The proponent will recomm commencement of operatio Compliance Report.
E22		Conditions E4, E5, E6, E14 and E19 do not apply in an emergency, as defined in the OEMP required by condition E31(g). The Proponent must, as soon as reasonably practicable, notify the Secretary and the EPA of any such discharge.	N	N	N	N	N	N	N	Ν	Operation	N	WCX M5 AT RMS CDS-JV	This condition will be addres the operational phase as rec
E23		The Proponent must develop and implement a reporting system for in-tunnel, ambient and ventilation outlet limits in <b>consultation</b> with the EPA. The reporting system must be approved by the Secretary and fully implemented and operational prior to operation. Minimum analytical reporting requirements for air pollution monitoring stations must be as specified in the Approved Methods of Modelling and Assessment of Air Pollutants in NSW (EPA 2007, or as updated).	N	N	N	N	N	N	N	N	Prior to operation	Y	WCX M5 AT RMS CDS-JV	A reporting system will be d DPE for approval prior to op Operation Compliance Repo
E24		Results of hourly updated real-time ambient monitoring of PM10, PM2.5, visibility, N02, and CO at the approved monitoring stations, in-tunnel CO/N02 and ventilation outlet measurements, and relevant meteorological data, must be provided on a website and made publicly available each month in hard copy format in an easy to interpret format. This data must be preliminary until a quality assurance check has been undertaken by a person or organisation accredited by NATA for this purpose. The availability of this data must be conveyed to the local community by way of newsletter (including	Ν	Ν	N	Ν	N	Ν	Ν	N	Prior to operation	N	WCX M5 AT RMS CDS-JV	The requirements for public OEMP. The required commu operation. This condition wi and subsequent operation c

WestConnex New M5



DRAGADOS



operational monitoring and will be complied with, as on in the operational compliance reports. mmend an independent person for approval prior to the

tion and this will be reported on in the Pre-Operation

ressed in the OEMP and notifications will be provided during required.

e developed in consultation with the EPA and submitted to operation. This condition will be reported on in the Pre-

blic provision of monitoring data will be addressed in the munity notifications will be provided one month prior to will be reported on in the Pre-Operation Compliance Report n compliance reports.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
		translation into common community languages in the area) and newspaper advertisement at least one month prior to the commencement of operation.												
E25		The provision, operation and maintenance (including all auditing and validation of data) of all air quality monitoring and reporting must be funded by the Proponent.	Ν	N	N	N	N	N	Y	N	Construction Operation	N	WCX M5 AT RMS CDS-JV	This requirement is noted ar
E26		All continuous emissions monitoring systems installed and operated as a requirement of condition E18 must undergo relative accuracy test audits at an interval not exceeding 12 months, or as otherwise agreed to by the Secretary in consultation with the EPA.	Ν	N	N	N	N	N	Y	N	Construction Operation	N	WCX M5 AT RMS CDS-JV	This requirement will be add compliance reports.
E27		The Proponent must appoint an external auditor to conduct an audit of the air quality monitoring (in-tunnel and external) at six-monthly intervals or at any longer interval if approved by the Secretary. Air quality audits must commence six months from commencement of operation. The auditor must ensure that the operating procedures and equipment to acquire air monitoring, meteorological data and emission monitoring data and monitoring reporting comply with NATA (or equivalent) requirements and sound laboratory practice. The Proponent must document the results of the audit and make available all audit data for inspection by the Secretary upon request. A copy of the audit report must also be issued to the Proponent and AQCCC. The auditor must be <b>approved</b> by the Secretary in <b>consultation</b> with the EPA and the AQCCC, and the auditor's report must be directly provided to the Proponent and the AQCCC.	Ν	N	Ν	Ν	Ν	Ν	N	Ν	Operation	Y	WCX M5 AT RMS CDS-JV	An external auditor will be r consultation with the EPA, w Auditing and reporting requi and will be reported on in th
E28		The Proponent must undertake appropriate quality assurance (QA) and quality control (QC) measures for air quality and ventilation outlet emission monitoring data. This must include, but not be limited to: accreditation/quality systems, staff qualifications and training, auditing, monitoring procedures, service and maintenance, equipment or system malfunction and records/reporting. The QA/QC measures must be approved by an independent expert <b>approved</b> by the Secretary prior to monitoring of air quality and ventilation outlet emissions as appropriate.	N	N	N	N	N	N	N	N	Operation	Y	WCX M5 AT	QA and QC measures will be independent expert that has of monitoring. This will be re
E29		The Proponent must assist the relevant council(s) in developing an air quality assessment process for inclusion in a Development Control Plan or other appropriate planning instrument, in considering planning and building approvals for new development in areas adjacent to the ventilation outlets which would be within a potential three-dimensional zone of affectation (buffer volume). This process must include procedures for identifying the width and height of buildings that are likely to be either affected by the plume from the ventilation outlet or affect the dispersion of the plume from the ventilation outlet through building wake effects. A part of this process, the Proponent must provide data detailing the results of modelling of pollution concentrations at various heights and distances from the ventilation outlets. The Proponent must meet all reasonable costs for the development of this process	Ν	Ν	Ν	Ν	Ν	Ν	N	Ν	Operation	Ν	WCX M5 AT RMS CDS-JV	This CoA will be complied wi the Pre-Operation Complian

WestConnex New M5



DRAGADOS



and will be complied with.

addressed in the OEMP and reported on in the operational

e recommended for approval by the Secretary, in A, within six months of the commencement of operation. quired under this condition will be addressed in the OEMP In the operational compliance reports.

be addressed in the OEMP and will be approved by an has been approved by the Secretary prior to commencement e reported on in the Pre-Operation Compliance Report.

with during the operational phase and will be reported on in iance Report and subsequent operation compliance reports.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
		and any necessary amendments to the planning instrument(s) required to implement the process.												
E30		Prior to operation, the Proponent must investigate, in consultation with the EPA, the measures for smoky vehicle enforcement in the New M5 tunnels, taking into consideration cost effectiveness. Any measures implemented as a result of investigation recommendations must be in accordance with current RMS smoky vehicle enforcement programs. The effectiveness of the smoky vehicle enforcement measures must be documented in the Independent Environmental Audit required under condition E51.	N	N	N	N	N	N	N	N	Prior to operation	N	WCX M5 AT RMS CDS-JV	This CoA will be complied wit Audit and the Pre-Operation
E31		Prior to the commencement of operation, or as otherwise agreed by the Secretary, the Proponent must prepare and implement an <b>Operation Environmental</b> <b>Management Plan (OEMP)</b> for the SSI. The OEMP must outline the environmental management practices and procedures that are to be followed during operation, and must be prepared in <b>consultation</b> with relevant agencies and in accordance with the Guideline for the Preparation of Environmental Management Plans (Department of Infrastructure, Planning and Natural Resources, 2004). The OEMP must include, but not be limited to:	Ν	Ν	Ν	Ν	N	N	N	N	One month prior to operation	Y	WCX M5 AT RMS CDS-JV	The OEMP will be prepared a to operation. Operation will not commenc Secretary. This CoA will be reported on
E31	(a)	a description of activities to be undertaken during operation of the SSI (including staging and scheduling);												
E31	(b)	statutory and other obligations that the Proponent is required to fulfil during operation, including approvals, consultations and agreements required from authorities and other stakeholders under key legislation and policies;												
E31	(c)	overall environmental policies, guidelines and principles to be applied to the operation of the SSI;												
E31	(d)	a description of the roles and responsibilities for relevant employees involved in the operation of the SSI, including relevant training and induction provisions for ensuring that employees are aware of their environmental and compliance obligations under these conditions of approval;												
E31	(e)	an environmental risk analysis to identify the key environmental performance issues associated with the operation phase;												
E31	(f)	details of periodic testing of the tunnel ventilation system;												
E31	(g)	a definition of emergency as it applies to conditions 84, E22 and E44; and												
E31	(h)	details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts, including those safeguards and mitigation measures detailed in Section 8 the document referred to in condition A2 (and any impacts arising from the staging of the construction of the SSI). In particular, the following environmental performance issues must be addressed in the OEMP -												
E31	(h)	(i) air quality,												



DRAGADOS



with and reported on in the Independent Environmental ion Compliance Report.

ed and implemented in accordance with this condition prior ence until approval of the OEMP has been obtained from the

on in the Pre-Operation Compliance Report.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E31	(h)	(ii) noise and vibration, through preparation of the Operational Noise Management Plan required under condition E34,												
E31	(h)	(iii) traffic,												
E31	(h)	(iv) climate change and energy use,												
E31	(h)	(v) visual amenity and landscaping,												
E31	(h)	<ul> <li>(vi) groundwater level/pressure, inflows, groundwater contamination, treatment and discharge, soil, and subsidence,</li> </ul>												
E31	(h)	(vii) groundwater dependent ecosystems, and												
E31	(h)	(viii) surface water quality and hydrology, including stormwater management.												
E31		The OEMP must be submitted for the <b>approval</b> of the Secretary no later than one month prior to the commencement of operation, or as otherwise agreed by the Secretary. Operation must not commence until written approval of the OEMP has been received from the Secretary.												
E31		Note: • The approval of an OEMP does not relieve the Proponent of any requirement associated with this SSI approval. If there is an inconsistency with an approved OEMP and the conditions of this SSI approval, the requirements of this SSI approval prevail.												
E32		The SSI must be designed and operated with the objective of meeting the requirements of the NSW Road Noise Policy (DECCW, 2011) and must, where feasible and reasonable, include the provision of at-property architectural treatment to all affected sensitive receivers in multi-level dwellings where the project noise criteria are exceeded, unless otherwise agreed to by the owner of the noise-affected residence.	N	N	N	N	N	N	N	N	Design Operation	N	WCX M5 AT RMS CDS-JV	This CoA applies to the deta reported on in the quarterly Compliance Report. This CoA also applies to the quarterly Pre-Operational C
E33		The Proponent must design and operate all fixed facilities, including the motorway operations complexes, tunnel portals; ventilation facilities, substations, pumps and water treatment plants, maintenance facility, workshops, car parking and the emergency smoke extraction outlets with the objective of not exceeding the noise requirements of the <i>NSW Industrial Noise Policy</i> (EPA, 2000) and the Sleep Disturbance Application Note to the <i>NSW Industrial Noise Policy</i> . The Proponent must apply mitigation at existing receivers where the noise requirements cannot be achieved.	N	N	N	N	N	N	N	N	Design Operation	N	WCX M5 AT CDS-JV	This CoA applies to the deta reported on in the quarterly Compliance Report. This CoA also applies to the Operational Compliance Rep
E34	(a)	A detailed <b>Operational Noise Management Plan</b> must be prepared as part of the Operational Environmental Management Plan required by condition E31 and submitted to the Secretary for <b>approval</b> . The Operational Noise Management Plan must provide details of noise and vibration control measures to be undertaken during the operation stages, and generally in accordance with the NSW Road Noise Policy (DECCW, 2011) and the NSW Industrial Noise Policy (EPA, 2000). The Operational Noise Management Plan must include, but not be limited to: tests for ascertaining acoustic parameters;	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	One month prior to operation	Y	WCX M5 AT CDS-JV	This CoA will be addressed a Secretary for approval prior on in the Pre-Operational Co



DRAGADOS



etailed design of the project which is ongoing and will be erly Construction Compliance Reports and Pre-Operational

ne operational phase, which will be reported on in the I Compliance Report.

etailed design of the project which is ongoing and will be erly Construction Compliance Reports and Pre-Operational

he operational phase, which will be reported on in Pre-Report.

ed as part of the OEMP which will be submitted to the rior to the commencement of operation and will be reported al Compliance Report.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E34	(b)	predicted noise levels;												
E34	(c)	noise criteria for operation of the project based on the objectives of the NSW Road Noise Policy (DECCW, 2011) and the NSW Industrial Noise Policy (EPA, 2000);												
E34	(d)	location, type and timing of erection of permanent noise barriers and/or other noise mitigation measures (including details of the barrier to replace the existing noise mound at Beverly Grove Park, consistent with the requirements of condition B62(f) demonstrating best practice including silencers and building treatments for associated plant rooms and enclosures for exposed plant;												
E34	(e)	specific physical and managerial measures for controlling noise;												
E34	(f)	noise monitoring, reporting and response procedures including the monitoring on surrounding roads which experience significantly increased traffic volumes as a result of the project, and including operational facilities;												
E34	(g)	procedures for operational noise and vibration complaints management, including investigation and monitoring (subject to complainant agreement); and												
E34	(h)	an Operational Ancillary Facility Noise Management Sub- Plan including, but not limited to -												
E34	(h)	(i) identification of the final location of all operational ancillary facilities and plant including the Motorway Complex, ventilation facilities, tunnel jet fans and water treatment plants,												
E34	(h)	(ii) the sound power levels of all chosen equipment and plant to be utilised during operation including spectral sound characteristics and frequency data,												
E34	(h)	(iii) identification and/or confirmation of sensitive receivers and appropriate categorisation of the surrounding area in accordance with the INP,												
E34	(h)	<ul> <li>(iv) identification of the applicable noise goals, including spectral frequency, for all sensitive receivers identified as being potentially impacted by any operational ancillary facility,</li> </ul>												
E34	(h)	<ul> <li>(v) presentation of noise assessment and predicted impacts including the use of mapping and noise contours,</li> </ul>												
E34	(h)	(vi) identification and implementation of appropriate mitigation measures including building treatment, site layout, attenuators and demonstration that chosen mitigation measures can adequately achieve the noise goals in the INP, and												
E34	(h)	(vii) details of maintenance and inspection schedules to ensure plant, equipment and other operational ancillary facilities are operating at optimal levels; and												
E34	(i)	mechanisms for the monitoring and review of the Operational Noise Management Plan.												

WestConnex New M5



DRAGADOS



Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
E35		For the purpose of assessment of noise criteria specified in the Operational Noise Management Plan, required under condition E34, noise from the development arising from ventilation facilities and plant must be:	N	N	N	N	N	N	N	N	Operation	N	WCX M5 AT CDS-JV	This CoA will be addressed in OEMP, to be submitted to th be reported on in the Pre-Op
E35	(a)	measured at the most affected point on or within the site boundary at the most sensitive locations to determine compliance with LAeq,T noise limits;												
E35	(b)	measured in the free field at least three to five metres from any vertical reflecting surface in line with the worst- affected dwelling facade to determine compliance with LAmax noise limits; and												
E35	(c)	subject to the modification factors provided in Section 4 of the NSW Industrial Noise Policy (EPA, 2000), where applicable.												
E35		Notwithstanding, should direct measurement of noise from the fixed facilities be impractical, the Proponent may employ an alternative noise assessment method deemed acceptable by the EPA (refer to Section 11 of the NSW Industrial Noise Policy (EPA, 2000)). Details of such an alternative noise assessment method accepted by the EPA must be submitted to the Secretary prior to the implementation of the assessment method.												
E36		The Proponent must design and operate the SSI with the objective, where feasible and reasonable, of not exceeding the vibration goals for human exposure for existing receivers, as presented in <i>Assessing vibration: a technical guideline</i> (DECC, 2006).	N	N	N	N	N	N	N	N	Design Operation	Ν	WCX M5 AT CDS-JV	This CoA applies to the detain reported on in the quarterly Compliance Report. This CoA also applies to the operational compliance repo
E37		The Proponent must prepare an <b>Operational Noise and</b> <b>Vibration Review (ONVR)</b> to confirm noise and vibration control measures that would be implemented for the project. The ONVR must be prepared in <b>consultation</b> with the Department, relevant councils, other relevant stakeholders and the community and must:	N	N	N	Y	Y	Y	N	Y	Construction	Y	WCX M5 AT CDS-JV	This CoA relates to the desig measures. The ONVR will be commencement of construc Implementation of the ONVI Report and subsequent oper
E37	(a)	confirm the appropriate operational noise and vibration objectives and levels for adjoining development, including existing sensitive receivers;												
E37	(b)	confirm the operational noise predictions of the project based on the final design. Confirmation must be based on an appropriately calibrated noise model (which has incorporated additional noise monitoring, and concurrent traffic counting, where necessary for calibration purposes). The assessment must specifically include verification of noise levels at all fixed facilities, based on additional noise monitoring undertaken at appropriately identified noise catchment areas surrounding the facilities;												
E37	(c)	confirm the operational noise and vibration impacts at adjoining development based on the final design of the project, including operational daytime LAeq 15 hour and night-time LAeq 9 hour traffic noise contours;												



DRAGADOS



d in the Operational Noise Management Plan, part of the o the Secretary for approval prior to operation. This CoA will -Operational Compliance Report.

etailed design of the project which is ongoing and will be rly Construction Compliance Reports and Pre-Operational

ne operational phase, which will be reported on in the eports.

sign and construction of operational noise and vibration be submitted to the Secretary for approval prior to the ruction of physical noise mitigation structures. NVR will be reported on during the Pre-Operation Compliance perational compliance reports.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E37	(d)	review the suitability of the operational noise mitigation measures identified in the documents referred to at conditions A2(b) and A2(c) and, where necessary, investigate and identify additional feasible and reasonable noise and vibration mitigation measures required to achieve the noise criteria outlined in the NSW Road Noise Policy (DECCW, 2011) and NSW Industrial Noise Policy (EPA, 2000), including the timing of implementation;												
E37	(e)	include a consultation strategy to seek feedback from directly affected property owners (including educational institutions) on the noise and vibration mitigation measures; and												
E37	(f)	procedures for the management of operational noise and vibration complaints.												
E37		The ONVR is to be verified by a suitably qualified and experienced noise and vibration expert. The ONVR is to be undertaken at the Proponent's expense and submitted to the Secretary for <b>approval</b> prior to the commencement of construction of physical noise mitigation structures, unless otherwise agreed by the Secretary.												
E37		The Proponent must implement the identified noise and vibration control measures and make the ONVR publicly available.												
E38		Within 12 months of the commencement of the operation of the SSI, or as otherwise agreed by the Secretary, the Proponent must undertake operational noise and vibration monitoring to compare the actual noise and vibration performance of the SSI against the noise performance predicted in the Operational Noise and Vibration Review required by condition E37 and the documents referred to in conditions A2(b) and A2(c). The monitoring program must be documented in an <b>Operational Noise and Vibration Compliance Report</b> . The Operational Noise and Vibration Compliance Report must include, but not be limited to:	N	N	N	N	Ν	N	N	N	Within 12 months of commencement of operation	N	WCX M5 AT RMS CDS-JV	This CoA relates to the oper Compliance Report will be p within 60 days of completin on in the operational compl
E38	(a)	details of the noise and vibration monitoring program including methodology, location and frequency of noise monitoring;												
E38	(b)	results of the monitoring program and an assessment of these against the operational noise criteria specified in the Operational Noise Management Plan required by condition E34 and noise levels predicted in the Operational Noise Review required by condition E37 and the documents referred to in conditions A2(b) and A2(c);												
E38	(c)	details of any complaints received relating to operational noise and vibration impacts;												
E38	(d)	any required recalibration of the noise and vibration model taking account considerations such as traffic numbers and land use change (if applicable);												
E38	(e)	an assessment of the performance and effectiveness of the applied noise and vibration mitigation measures with regard to the operational noise criteria specified in the Operational Noise Management Plan required by condition E34; and												



DRAGADOS



perational phase. An Operational Noise and Vibration be prepared and submitted to the Secretary and the EPA eting the operational noise monitoring. This will be reported mpliance reports.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit y	Comment / evidence
E38	(f)	identification of any further feasible and reasonable noise and vibration mitigation measures required to meet the noise criteria specified in the Operational Noise Management Plan, where the criteria are exceeded, including timing and responsibilities for implementation.												
E38		The Proponent must provide the Secretary and the EPA with a copy of the Operational Noise and Vibration Compliance Report within 60 days of completing the operational noise monitoring, or as otherwise agreed by the Secretary.												
E39		The Proponent must implement further feasible and reasonable mitigation measures (where required) as identified in the Operational Noise and Vibration Compliance Report in <b>consultation</b> with affected property owners.	N	N	N	N	N	N	N	Ν	Operation	Ν	WCX M5 AT RMS CDS-JV	This CoA will be complied wi
E40		At both 12 months and 5 years after the commencement of operation of the SSI, or as otherwise agreed to by the Secretary, the Proponent must prepare a <b>Road Network</b> <b>Performance Review Plan</b> in <b>consultation</b> with Transport for NSW and the relevant councils that includes:	N	N	N	N	N	N	N	N	Operation	N	WCX M5 AT RMS CDS-JV	This CoA applies to the oper compliance reports.
E40	(a)	an updated analysis, including modelling of traffic impacts to the adjoining road network (including impacts on local roads and rat-running), as a consequence of the SSI. This must include a review of new information available about potential land use changes, and any traffic changes as a result of other major road projects within the project area;												
E40	(b)	further detailed investigations at the following intersections or sections of the road network-												
E40	(b)	<ul> <li>potential 'pinch-points' where the merging of tunnel exit traffic and surface traffic would occur at the King Georges Road Interchange and the St Peters Interchange,</li> </ul>												
E40	(b)	(ii) King Street, between Sydney Park Road and Enmore Road,												
E40	(b)	(iii) Euston Road, between Sydney Park Road and Botany Road,												
E40	(b)	(iv) Princes Highway/Campbell Street,												
E40	(b)	(v) Princes Highway/Canal Road,												
E40	(b)	(vi) Princes Highway/Railway Road,												
E40	(b)	(vii) Gardeners Road/O'Riordan Street,												
E40	(b)	(viii) Sydney Park Road/Mitchell Road,												
E40	(b)	(ix) Gardeners Road/Bourke Road,												
E40	(b)	(x) Unwins Bridge Road/Campbell Street, and												
E40	(b)	(xi) Campbell Road/Euston Road;												
E40	(c)	updated consideration of potential mitigation measures to manage any predicted traffic performance deficiencies in association with the investigations undertaken under (b);												

WestConnex New M5



DRAGADOS



with where required during the operational phase.

perational phase and will be reported on in the operational

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E40	(d)	the predicted traffic performance improvements from these measures, including any cumulative												
E40	(e)	improvements; details on bus priority measures;												
E40	(f)	a comparison of the pre- and post-road network performance for all road users including, but not limited to, vehicles, freight, public transport and active transport;												
E40	(g)	justification of why the predicted 'do minimum' performance for any road users of any intersection on the adjoining road network cannot be maintained (if necessary); and												
E40	(h)	an updated description and proposed timing of potential mitigation measures, including measures to remove or limit any adverse impacts on any road user groups impacted by the SSI.												
E40		The Proponent is responsible for the implementation of the identified measures, if required.												
E40		The Road Network Performance Review Plan must be submitted to the Secretary, Transport for NSW (in relation to impacts on bus services) and to relevant council(s) within 60 days of its completion and made publicly available.												
E40		The purpose of the Road Network Performance Review Plan is to optimise road network performance including public transport access and times, and manage the performance impacts of the SSI on the adjoining road network by identifying or confirming mitigation improvements that could be required in areas where traffic performance may be unsatisfactory at time of completion of construction.												
E40		Note: • Identified mitigation measures may need to be further assessed under the Environmental Planning and Assessment Act, 1979. Works will need to meet relevant design standards and be subject to independent road safety audits.												
E41		The Proponent must liaise with relevant councils during detailed design to improve integration of the project with the local and regional road network. The outcomes of this <b>consultation</b> will be reported and incorporated in the Road Network Performance Review Plan required under condition E40.	N	Ν	N	N	Ν	Ν	N	N	Design Operation	N	WCX M5 AT CDS-JV	Consultation with Councils this will be incorporated in with this condition will be r
E42		The Proponent must prepare and implement an <b>Operational Parking and Access Strategy</b> to facilitate the optimisation of the return of on- and off-street parking removed or altered during construction and consequent to the operation of the SSI. The Strategy shall include, but not necessarily be limited to:	N	Ν	N	N	N	N	N	N	12 months prior to operation	Y	WCX M5 AT RMS CDS-JV	The Operational Parking an Secretary at least 12 month Compliance with this condi Report. Implementation of the Ope during the operational com
E42	(a)	confirmation and timing of the return of on- and off- street parking removed or altered as a result of construction and operation of the SSI with reference to the Residual Land Management Plan required in condition B67;												



DRAGADOS



ils is ongoing during the design process and the outcomes of into the Road Network Performance Review Plan. Compliance reported in the operational compliance reports.

and Access Strategy will be prepared and submitted to the nths prior to operation in accordance with this condition. ndition will be reported on in the Pre-Operation Compliance

perational Parking and Access Strategy will be reported on ompliance reports.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E42	(b)	review of comprehensive parking surveys required in condition D50(b) with consideration of changes in demand attributable to land use changes, acquisitions or other cumulative impacts;												
E42	(c)	<b>consultation</b> with affected stakeholders, including relevant councils, that will experience continued loss, return or additional on- and off-street parking;												
E42	(d)	assessment of the impacts of changes to on- and off- street parking stock taking into consideration of outcomes of consultation with affected stakeholders and reviews of parking surveys;												
E42	(e)	identification of mitigation measures and arrangements to manage impacts to stakeholders as a result of on- and off-street parking changes including, but not necessarily limited to, provision of alternative parking arrangements, and working with relevant councils to introduce parking restrictions or permit schemes where appropriate;												
E42	(f)	mechanisms for monitoring of on- and off-street parking impacts and mitigation measures at 12 month intervals to determine the effectiveness of implemented mitigation measures and any supply and demand induced parking issues that are attributable to the SSI;												
E42	(g)	provision of contingency measures should the results of mitigation monitoring indicate implemented measures are ineffective; and												
E42	(h)	provision of reporting of monitoring results to the Secretary and relevant councils at 12 month intervals for the first five years of operation.												
E42		The use of residual land to achieve compliance with the objective of optimising the return of all on- and off-street parking is permitted. However, this must be justified within the Residual Land Management Plan required by condition B67.												
E42		The Strategy must be submitted to the Secretary for approval at least 12 months prior to the operation of the SSI, unless otherwise agreed by the Secretary. The Strategy must be implemented prior to the operation of the SSI.												
E43		The ongoing maintenance and operation costs of urban design, open space, landscaping and recreational items and works implemented as part of this approval will remain the Proponent's responsibility until satisfactory arrangements have been put in place for the transfer of the asset to the relevant authority. Prior to the transfer of assets, the Proponent will maintain items and works to at least the design standards established in the Urban Design and Landscape Plan required by condition B61.	N	N	N	Y	Y	Y	Y	Y	Construction Operation	N	WCX M5 AT RMS CDS-JV	This condition will be comp as required, and will be rep Reports, the Pre-Operation reports as necessary.
E44		Six months prior to operation, the Proponent must prepare an <b>Emergency Response Plan</b> , in <b>consultation</b> with FRNSW and NSW Police Force. The Emergency Response Plan must include, but not be limited to:	N	N	N	N	N	N	N	N	6 months prior to operation	N	WCX M5 AT CDS-JV	An Emergency Response Pl emergency response exerc the tunnels. This condition Report.



DRAGADOS



mplied with during the construction and operational phases, reported on in the relevant quarterly Construction Compliance ion Compliance Report and the operational compliance

Plan will be prepared six months prior to operation and an ercise will be conducted at least one month prior to opening of on will be reported on during the Pre-Operation Compliance

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E44	(a)	protocols and procedures to be followed during emergency situations associated with the operation of the project (including fires, explosions and, for the purposes of this condition, vehicle collisions). The protocols and procedures are to take into account the needs of people with a disability or who may experience access problems in emergency situations;												
E44	(b)	details of traffic management measures to be implemented during emergencies, where appropriate, to minimise the potential for escalation of the emergency;												
E44	(c)	design and management measures to address the potential environmental impacts of an emergency situation, including measures for containment of contaminated fire-fighting water, fuel spills and gaseous combustion products;												
E44	(d)	details of a training and testing program to ensure that-												
E44	(d)	(i) all operational staff are familiar with the Emergency Response Plan, and												
E44	(d)	<ul> <li>(ii) coordination with FRNSW and NSW Police is regularly exercised; and</li> </ul>												
E44	(e)	provision for a simulated emergency response exercise, including the Proponent, FRNSW and NSW Police, to be conducted in accordance with the approved Emergency Response Plan on at least one occasion at least one month prior to the opening of the tunnels to traffic. The time for the exercise is to be agreed by the participants, and FRNSW and NSW Police are to be provided with at least one month prior <b>notification</b> of any proposed time.												
E45		Fire simulation and hot smoke testing must be undertaken as part of the simulated emergency response exercise to be staged prior to opening of the project to traffic as required in condition E44(e). The Proponent must respond in writing to any recommendations made by FRNSW as a result of the exercise. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	Ν	N	N	N	N	N	N	6 months prior to operation	Ν	WCX M5 AT RMS CDS-JV	This condition will be comp required by CoA E44. Comp Operation Compliance Repo
E46		The Proponent must undertake annual Hazard Reviews of the project for the first five years of operation. The Hazard Review must detail all hazardous incidents that have occurred during the preceding period, as per (a) to (c) below, identify safety measures required to rectify those incidents, and address any ongoing issues. The first Hazard Review must be undertaken for the first three months of operation after the opening of the project to traffic. Subsequent Hazard Reviews must be undertaken for the following nine months and thereafter twelve monthly intervals. FRNSW may also direct the Proponent to undertake a Hazard Review following any major incident in the tunnel. A <b>Hazard Review Report</b> , outlining the results of a Hazard Review, and any proposed additional safety measures to be implemented in response to the findings of the Hazard Review, must be submitted to FRNSW no later than one month after the review period. The Proponent must respond in writing to any recommendation made by FRNSW in relation to the	Ν	Ν	N	N	N	N	N	N	Operation	N	WCX M5 AT RMS CDS-JV	Hazard reviews will be unde with this condition. A Hazar month of the review taking during the operational com



DRAGADOS



mplied with as part of the emergency response exercise mpliance with this condition will be reported on in the Pre-

ndertaken for the first five years of operation in accordance azard review report will be provided to FRNSW within one ing place. Compliance with this condition will be reported on ompliance reports.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
		findings of a Hazard Review, within such time as may be agreed by FRNSW. Any outstanding concerns are to be resolved between FRNSW and the Proponent.												
E47		The Proponent must develop a Fire Engineering Brief and Fire Engineering Report to address fire and life safety in the tunnel, in consultation with FRNSW. The documents must be prepared prior to finalising the detailed design for the tunnel. The documents must outline fire protection systems and other tunnel equipment, systems, and operational protocols required for fire and smoke management. In developing the Fire Engineering Brief and Fire Engineering Report, the Proponent must undertake a detailed fire engineering study in accordance with Australian Building Codes Board codes and guides, and Fire Safety Engineering Guidelines. Detailed design of the tunnel must incorporate the design and operational measures developed in the fire engineering study to minimise the potential for, and effect of, fire and hazardous material incidents in the tunnel. The final design of the tunnel in relation to the fire and life safety features must be verified against the fire engineering study in consultation with FRNSW by an Accredited Fire Engineer. The Proponent must respond in writing to any recommendation made by FRNSW in relation to the Fire Engineering Brief and Fire Engineering Report, within such time as may be agreed by FRNSW. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	N	N	N	N	N	Y	N	Design	N	WCX M5 AT RMS CDS-JV	A Fire Engineering Brief and F with FRNSW and in accordan for the tunnel. The fire and life safety desigr Compliance with this condition Compliance Reports.
E48		Prior to the opening of the project to traffic, a full audit of the fire and life safety system as defined by the fire engineering study developed in condition E47 above must be undertaken by an Accredited Fire Engineer. The objective of the audit must be to ensure that all design and operational measures outlined in the fire engineering study have been installed, are operational, and achieve the required design criteria. The results of the audit must be submitted to FRNSW prior to opening of the project to traffic. The Proponent must respond in writing to any recommendations resulting from FRNSW review of the audit. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	N	N	N	N	N	N	N	Prior to opening	N	WCX M5 AT CDS-JV	An independent audit of the operation, in accordance with reported on in the Pre-Opera
E49		A detailed maintenance-testing program outlining the methods of testing the fire and life safety systems and schedule for implementation must be developed in <b>consultation</b> with FRNSW prior to opening of the project to traffic. The Proponent must respond in writing to any recommendations made by FRNSW. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	N	N	N	N	N	N	N	Prior to opening	N	WCX M5 AT CDS-JV	This CoA will be complied wit be reported on during the Pro



DRAGADOS



d Fire Engineering Report will be prepared in consultation ance with this condition, prior to finalising detailed design

ign will be verified by an Accredited Fire Engineer. ition will be reported on in the quarterly Construction

ne fire and life safety system will be undertaken prior to vith this condition. Compliance with this condition will be eration Compliance Report.

with prior to operation of the tunnels and compliance will Pre-Operation Compliance Report.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval Required?	Responsibilit Y	Comment / evidence
E50		Maintenance testing of fire and life safety systems must be undertaken at least annually, or any other interval as required by the design engineer and to the satisfaction of FRNSW. Results of maintenance testing must be made available to FRNSW for review, and the Proponent must respond in writing to any recommendations from FRNSW to ensure the reliability of the fire and life safety systems. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	Ν	Ν	N	Ν	N	Ν	N	Operation	N	WCX M5 AT RMS CDS-JV	Maintenance testing of fire a operational phase in accord FRNSW review. Compliance compliance reports.
E51		Within 12 months of the commencement of operation, and at any other stage required by the Secretary, the Proponent must commission and pay the full cost of an <b>Independent Environmental Audit</b> of the SSI. The Independent Environmental Audit must:	N	Ν	N	N	Ν	N	N	N	Within 12 months of commencement of operation	Ν	WCX M5 AT RMS CDS-JV	An Independent Environmer condition within 12 months report will be submitted to t This condition will be addres operational compliance repo
E51	(a)	be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been approved by the Secretary;												
E51	(b)	include consultation with the relevant agencies and relevant councils;												
E51	(c)	assess the environmental performance of the SSI and assess whether it is complying with the requirements in this approval, and any other relevant approvals (including any assessment, plan or program required under these approvals);												
E51	(d)	review the accuracy of predicted environmental outcomes discussed in the documents referred to in conditions A2(b)and A2(c);												
E51	(e)	review the adequacy of any approved strategy, plan or program required under the abovementioned approvals in (c); and												
E51	(f)	recommend measures or actions to improve the environmental performance of the SSI, and/or any strategy, plan or program required under these approvals.												
E51		Within 60 days of completion of the Independent Environmental Audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary and relevant public authorities, together with its response to any recommendations contained in the audit report.												
E51		Notes: • This audit team must be led by a suitably qualified and experienced auditor, and include experts in air quality, biodiversity, noise and vibration, hydrology and any other fields specified by the Secretary. • The audit may be staged to suit the staged operation of the SSI.												



DRAGADOS



re and life safety will be undertaken annually during the ordance with this condition, and results made available for ce with this condition will be reported on in the operational

nental Audit will be conducted in accordance with this hs of the commencement of operation. A copy of the audit to the Secretary within 60 days of completion of the audit. ressed in the OEMP and reported on in the relevant eport.