WestConnex





M4 East

Environmental Impact Statement

Appendices A-G



September 2015

Volume 2A

Appendices

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Secretary's environmental assessment requirements



Appendix A - Secretary's Environmental Assessment Requirements

Secretary's Environmental Assessment Requirement	Where addressed in the EIS
The Environmental Impact Statement (EIS) must be prepared	Chapter 2
in accordance with, and meet the minimum requirements of,	
Part 3 of Schedule 2 of the Environmental Planning and	
Assessment Regulation 2000 (the Regulation), including:	
1. The information required under clause 6 of Schedule 2 of	Chapter 2 and Appendix B
the Regulation.	
2. The content listed in clause 7 of Schedule 2 of the	Chapter 2 and Appendix B
Regulation, including but not limited to:	
a statement of the objectives of the project, including a	Strategic need: Chapter 3
description of the strategic need, justification, objectives and	
outcomes for the project, taking into account existing and	Justification: Chapter 30
proposed transport infrastructure and services within the	
adjoining subregions, and as relevant the outcomes and	Project objectives: section 3.3
objectives of relevant strategic planning and transport	
policies, including, but not limited to, NSW 2021, NSW	Outcomes: sections 3.2 and 3.4
Government State Infrastructure Strategy, NSW Long Term	
Transport Master Plan (December 2012), A Plan for Growing	
Sydney (December 2014) and any other relevant plans;	
an analysis of feasible alternatives to the carrying out of the	Analysis of alternatives and options
project and project justification, including:	considered for the project: Chapter 4
an analysis of alternatives/options considered having	
regard to the project objectives (including an assessment	Project objectives Chapter 3 and
of the environmental costs and benefits of the project	section 30.1.
relative to alternatives and the consequences of not	
carrying out the project), and the provision of a clear	Route development and selection
discussion of the route development and selection	process: Chapter 4
process, the suitability of the chosen alignment taking into	
account environmental impacts, consideration of tunnel	Public interest: Chapter 30
construction methods and whether or not the project is in	
the public interest, and	The project justification: Chapter 3
justification for the preferred project taking into	and section 30.1
consideration the objects of the Environmental Planning	
and Assessment Act 1979.	The objects of the EP&A Act 1979:
	section 30.2
a detailed description of the project, including:	
proposed route, and road treatments,	
design of the tunnels, interchanges (including tunnel	Proposed route, project design:
portals and entry and exit ramps), and road user,	Chapter 5
pedestrian and cyclist facilities (including street furniture	
and lighting),	Land use changes: section 5.11 and
• land use changes, including resumption of residential and	Chapter 12
industrial lands, and impacts to Crown land,	
 location and operational requirements of construction 	Construction work: Chapter 6
ancillary facilities and access tracks, and	
 relationship and/or interaction with existing public and 	Interaction with public and freight
freight transport services (including rail, bus and water-	transport: section 5.9, Chapter 6 and
based traffic, and rail and bus stops);	Chapter 8

Secretary's Environmental Assessment Requirement	Where addressed in the EIS
an analysis of the project including an assessment, with a	Clause 7(1)(d): Chapter 2 and
particular focus on the requirements of the listed key issues,	Appendix B
in accordance with clause 7(1)(d) of Schedule 2 of the	
Regulation (where relevant), including an identification of how	Relevant planning and development
relevant planning, land use and development matters	matters: Chapter 3
(including relevant strategic and statutory matters) have been	-
considered in the impact assessment (direct, indirect and	Land use: Chapter 12
cumulative impacts) and/or in developing	Cumulative impacts: Chapter 26
management/mitigation measures;	,
Thankagaman maada as,	Management/mitigation measures:
	Chapters 8 through Chapter 28 and
	consolidated in Chapter 29
datail how the principles of coolegically systemable	Section 27.4
detail how the principles of ecologically sustainable	Section 27.4
development will be incorporated in the design, construction	
and ongoing operation phases of the project; and	
provide an assessment of the cumulative impacts of the	Cumulative impacts: Chapter 26
project taking into consideration the broader project of	
WestConnex.	Cumulative impacts of WestConnex:
	section 26.4
Notwithstanding the key issues specified below, the EIS must	Chapter 28
include an environmental risk analysis to identify the potential	
environmental impacts associated with the infrastructure.	
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Where relevant, the assessment of the key issues below, and	
any other significant issues identified in the risk assessment,	
must include:	
adequate baseline data;	
 consideration of potential cumulative impacts due to other 	
development in the vicinity; and	
measures to avoid, minimise and if necessary, offset the and distributed improved in all vising detailed continuous plans.	
predicted impacts, including detailed contingency plans	
for managing any significant	
risks to the environment.	
The EIS must also address the following specific matters:	
Traffic and transport, including but not limited to:	
Details of how the following meet the traffic and transport	Section 8.4
objectives of the project, taking into account adjacent	
sensitive land uses, future growth areas, approved and	
proposed infrastructure projects, and traffic (vehicular, cyclist	
and pedestrian) needs:	
The preferred alignment and design	
, ,	
The proposed interchanges and connections to the autropydiag road naturals.	
surrounding road network	
Associated road infrastructure facilities	
An assessment and modelling of operational traffic and	Section 8.4
transport impacts on the local and regional road network	
(including Parramatta Road, Queens Road, Gipps Street, and	
other arterials), and the Sydney motorway network	
Induced traffic and operational implications for public	Sections 8.1 and 8.4.2
transport (particularly with respect to strategic bus corridors	
and bus routes) and consideration of opportunities to improve	
public transport patronage	
Impacts on cyclists and pedestrian access and safety and	Section 8.4.3
	00000011 0.4.0
consideration of opportunities to integrate cycleway and pedestrian elements with surrounding networks	
roecesman elements with Surrounding NetWorks	1

	cretary's Environmental Assessment Requirement	Where addressed in the EIS
	nstruction traffic and transport impacts of the project	
	cluding ancillary facilities) and associated management	
me	asures, in particular:	
•	Impacts to the road network (including safety and level of	Section 8.3
	service, pedestrian and cyclist access, and disruption to	
	public transport services and access to properties)	
•	Route identification and scheduling of transport	Section 8.3.1
	movements	
•	The number, frequency and size of construction related	Section 8.3.1
	vehicles (both passenger, commercial and heavy	
	vehicles)	
•	The nature of existing traffic on construction access	Section 8.2.2
	routes (including consideration of peak traffic times)	
•	The need to close, divert or otherwise reconfigure	
	elements of the road network associated with	Section 8.3.4
1.	construction of the project	Chautan 90
	ring reference to the cumulative construction impacts of	Chapter 26
	er infrastructure preparing for or commencing construction	
	ails of how the project meets the objectives of the overall	Section 8.4.4
	stConnex Scheme.	
	quality - including but not limited to:	
	assessment of construction and operational activities that	Chapter 9, sections 9.6 to 9.7
	re the potential to impact on in-tunnel, local and regional	
	quality. The air quality impact assessment should provide	
	assessment of the risk associated with potential	
	charges of fugitive and point source emissions on sensitive	
rec	eivers, and include:	
•	The identification of all sources of air pollution and assess	Sources of air quality: sections 9.7
	the potential emissions of PM ₁₀ , PM _{2.5} , CO and NO ₂ and	and 9.8 and Appendix H
	other nitrogen oxides and volatile organic compounds (eg	
	BTEX) and consider the impacts from the dispersal of	
	these air pollutants on the ambient air quality along the	
1	proposed route, proposed ventilation outlets and portals,	
1	surface roads and ramps, the alternative surface road	
	network and in-tunnel air quality;	Section 0.7.2
•	assessment of the worst case scenarios for in-tunnel and	Section 9.7.2
1	ambient air quality, including assessment of a range of	
1	traffic scenarios, including worst case maximum flow	
	scenario (variable speed) and worst case breakdown	
	scenario, and discussion of the likely occurrence of each;	Description of ventilation avetem:
•	details of the proposed mitigation measures to address	Description of ventilation system: section 5.6
1	in-tunnel air quality and the air quality in the vicinity of the	Section 3.0
1	portals and any mechanical ventilation systems (stacks	Mitigation: section 0.0
	and air inlets) including details of proposed air monitoring	Mitigation: section 9.9
	(including criteria);	Sections 9.7 and 9.8 and
•	demonstrate how the project and ventilation design	
	ensures that concentrations of air emissions meet NSW,	Appendix H
	national and international best practice for in-tunnel and	
	ambient air quality, taking into consideration the approved criteria for the NorthConnex project;	
	επιστιστιστιστιστιστιστιστιστιστιστιστιστι	1

Secretary's Environmental Assessment Requirement	Where addressed in the EIS
 consideration of any advice provided by the Advisory 	Reference has been made to the
Committee on Tunnel Air Quality on the project	technical papers published by the
particularly in relation to assessment methodology;	NSW Chief Scientists Office on behalf
particularly in relation to assessment methodology,	of the Advisory Committee on Tunnel
	Air Quality, in particular the <i>Initial</i>
	Report on Tunnel Air Quality, July
	2014 and the Advisory Committee on
	Tunnel Air Quality Final Report On the
	NorthConnex M1-M2 Project revised
	Submissions and Preferred
	Infrastructure Report
details of any amarganay ventilation systems, such as air	Sections 5.6 and 5.7
details of any emergency ventilation systems, such as air intelled (sylpayer et else in pluding protected for the	Sections 5.6 and 5.7
intake/exhaust stacks, including protocols for the	
operation of these systems in emergency situations,	
potential emissions of air pollutants and their dispersal, and safety procedures; and	
details of in-tunnel air quality control measures considered,	Sections 5.6, 9.7 and 9.9.3
including air filtration. Justification must be provided to	Sections 5.0, 9.7 and 9.9.5
support the proposed measures;	
Details of the proposed mitigation measures to prevent the	In-tunnel air quality control measures:
generation and emission of dust (particulate matter and TSP)	section 5.6
and air pollutants (including odours) during the construction of	
the proposal, particularly in relation to ancillary facilities (such	Justification of the air quality
as concrete batching plants), and the use of mobile plant,	management measures: section 9.10
stockpiles and the processing and movement of spoil;	management measures. Section 5.10
Cumulative assessment of the local and regional air quality	Section 9.8
due to the operation of Stage 3 – M4 South (Haberfield to St	Occion 3.0
Peters) and surface road operations;	
The air quality assessment, including the setting of air quality	Chapter 7
criteria must be done in consultation with NSW Health and	
the Environment Protection Authority and with consideration	
of any applicable advice provided by the Advisory Committee	
on Tunnel Air Quality; and	
Modelling (including dispersion modelling) must be conducted	Section 9.2 and 9.4 and Appendix H
in accordance with the Approved Methods for the Modelling	
and Assessment of Air Pollutants in NSW (EPA, 2005) or a	
suitably justified and verified alternative method based on	
current scientific understanding of atmospheric dispersion.	
Particular attention must be given to the verification of the	
method of predicting local air quality or meteorological	
conditions based on non-local or modelled data.	
conditions based on non-local of modelled data.	

Socratary's Environmental Assessment Poquirement	Where addressed in the EIS
Secretary's Environmental Assessment Requirement Human Health – including but not limited to:	Where addressed in the E13
an assessment of human health impacts with particular	Chapter 11
consideration of:	onapter 11
how the design of the proposal minimises adverse health	Sections 11.3 and 11.4 and
impacts,	Appendix J
human health impacts from the operation of the tunnel	
under a range of conditions, including worst case	Section 11.4
operating condition,	
 human health risks and costs associated with the 	
proposal, including those associated with air quality,	Sections 11.3 and 11.4
noise and vibration, and social impacts, during the	
construction and operation of the proposal, and	
the Environmental Health Risk Assessment: Guidelines	Ocadica Ford Defendance
for assessing human health risks from environmental	Section Error! Reference source not
hazards (enHealth, 2012) and Air Quality in and Around	found.
Traffic Tunnels (NHMRC, 2008).	
Social and Economic — including, but not limited to: Impacts on directly affected properties and land uses,	Impacts on proportion and land use:
including impacts related to access, land use, property	Impacts on properties and land use: sections 5.11, 12.2 and 12.4, 14.3
acquisition (including relations and expenses for those	and 14.4
properties acquired) and amenity related changes.	und 14.4
proportion and arrange in angest	Details of property acquisition:
	sections 5.11
	Impacts on access: sections 8.3.4
	and 12.3.2
social and economic impacts to businesses in the vicinity of	Sections 14.3 and 14.4
the project, including Parramatta Road and other, and to the	
community associated with traffic, access, property, public	
domain and amenity related changes;	
social impact assessment for Concord Oval, including details	Relocation of the Cintra Park Hockey
of existing uses, proximity of sporting club membership and	Field is considered under a separate
fan bases to Concord Oval, consideration of relocation	approval in St Luke's Park Sporting
options and offsets for affected clubs, and consideration of	Facilities Works Review of
alternative sites (including the Burwood bus depot site); and	Environmental Factors. The findings are summarised in sections 14.3.6
	and 14.4.7
a draft Community Consultation Framework identifying	Chapter 7 and Appendix F
relevant stakeholders, procedures for distributing information	onaptor r and Appendix i
and receiving/responding to feedback and procedures for	
resolving community complaints. Key issues that should be	
addressed in the draft framework should include:	
traffic management (including property access,	
pedestrian access),	
 landscaping/urban design matters, 	
construction activities, including out of hours work, and	
noise and vibration mitigation and management.	
·	

Where addressed in the EIS
Erosion and sediment and surface water quality, salinity: sections 15.3, 15.4 and 15.5 Ground movement: Chapter 18
Chapter 18 Section 18.4.1 Sections 18.3.2 and 18.4.6 Sections 18.3.1 and 18.4.3
Sections 18.4.8 Sections 18.4.8 and 18.5.1 Sections 18.4.2, 18.4.4 and 18.4.5
Surface and groundwater monitoring: sections 18.1.2 and 18.5. NSW Aquifer Interference Policy: sections 18.1.3 and 18.4.9
Existing flood regimes: sections 17.3 and 17.4 Existing receivers and infrastructure: sections 17.3 and 17.4 Changes to rainfall frequency and/or intensity as a result of climate change: section 17.4.1 Flood risks to the project design: sections 17.4 and 17.5.
Impacts on waterways: section 15.2 Riparian vegetation: section 20.3.1 Acid sulfate soils impacts: section 16.4.2

Constant of Fundamental Assessment Benefits went	Whom addressed in the FIG
Secretary's Environmental Assessment Requirement a Spoil Management Strategy detailing how spoil will be managed during construction, including likely volumes, likely nature and classification of excavated material, opportunities for recycling, potential disposal sites (including description of sites), stockpile management, and method(s) and route of transportation.	Where addressed in the EIS Section 15.5
Urban Design and Visual Amenity - including, but not limi	ted to:
Consideration of the urban design and visual amenity implications of the project, including supporting infrastructure, during construction and operation. The assessment must identify urban design and landscaping objectives to enhance the interchanges, tunnels, 'cut and cover' and 'slot' arrangements consider resulting residual land and treatments	Potential impacts to visual amenity during the construction and operation: sections Error! Reference source not found. and Error! Reference source not found
demonstrate how the proposed hard and soft urban design elements of the project would be consistent with the existing and desired future character of the area	Urban design and landscaping objectives: section Error! Reference source not found. and Appendix L
	Operational urban design: section Error! Reference source not found. and Appendix L .
	Consideration of the existing and desired future character of the area: section Error! Reference source not found. and Appendix L.
consideration of the WestConnex Urban Revitalisation Project	Section 13.4.5
identification of opportunities to utilise surplus or residual land, and utilise key structures (such as stacks) for multiple uses i.e. integration with other structures	Surplus and residual land: section 12.3.1
	Integration with other structures: Section 13.4.3.
identification and evaluation of the visual impacts and urban design aspects of the project (and its components) on surrounding areas	Sections 13.3, 13.4 and 13.4.4.
a consideration of impacts on views and vistas, streetscapes, key sites and buildings	Sections 13.3 and 13.4.
identification of measures to create, promote and enhance connectivity across Parramatta Road, where impacts to connectivity are associated with the project	Section 13.5, sections 8.4.3 and 8.4.4
measures to manage lighting impacts both during construction and operation	Lighting impacts: section 13.3.3 and 13.4.2
	Mitigation: section 13.5.
artists' impressions and perspective drawings of the proposal from a variety of locations along and adjacent to the route	Appendix L

Secretary's Environmental Assessment Requirement	Where addressed in the EIS
Noise and vibration – including but not limited to:	
An assessment of the noise impacts of the project during	Chapter 10.5
operation, consistent with the Road Noise Policy (EPA, 2011)	
and NSW Industrial Noise Policy (EPA, 2000). The	
assessment must include specific consideration of impacts to	
receivers (dwellings, child care centres, educational	
establishments, hospitals, motels, nursing homes, or places	
of worship), including specific consideration of sleep	
disturbance and, as relevant, the characteristics of noise (eg	
ow frequency noise), and identify reasonable and feasible	
mitigation measures	
An assessment of construction noise and vibration impacts,	Section 10.4
consistent with the Interim Construction Noise Guideline	
(DECCW, 2009) and Assessing Vibration: a technical	
guideline (DEC, 2006). The assessment must have regard to	
the nature of construction activities (including transport, tonal	
or impulsive noise-generating works and the removal of	
operational noise barriers, as relevant), the intensity and	
duration of noise and vibration impacts, the nature, sensitivity	
and impact to potentially affected receivers, the need to	
palance timely conclusion of noise and vibration-generating	
works with periods of receiver respite, and other factors that	
may influence the timing and duration of construction	
activities (such as traffic management), and mitigation and	
management measures.	
The assessment should present, as relevant, an indication of	Section 6.7.2 in Chapter 6
potential for works outside standard working hours, including	(Construction work) for justification
predicted levels and exceedences, justification for the activity	and discussion of out of hours work
and discussion of available mitigation and management	and discussion of out of hours work
measures.	
Heritage – including but not limited to:	
Impacts to State and local historic heritage (including	Chapter 19
conservation areas, built heritage landscapes and	Chapter 19
archaeology) should be assessed. Where impacts to State or	
•	
locally significant historic heritage are identified, the	
assessment shall:	
Outline the manner of million the manner of meaning	Section 40.4
- amino mio propose amingement amino memory	Section 19.4
measures (including measures to avoid significant	Section 19.4
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the	Section 19.4
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the	Section 19.4
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office	Section 19.4
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996),	
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), • Be undertaken by a suitably qualified heritage	Section 19.4 Appendix S
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note:	
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), • Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note: where archaeological excavations are proposed the	
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note:	
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measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), • Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria),	
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), • Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria), • Include a statement of heritage impact for all heritage	Appendix S
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria), Include a statement of heritage impact for all heritage items (including significance assessment), This should	Appendix S
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), • Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria), • Include a statement of heritage impact for all heritage items (including significance assessment), This should include detailed mapping of all heritage items and how	Appendix S
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), • Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria), • Include a statement of heritage impact for all heritage items (including significance assessment), This should include detailed mapping of all heritage items and how they are affected by the proposal,	Appendix S Section 19.3.2 and Appendix S
 measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria), Include a statement of heritage impact for all heritage items (including significance assessment), This should include detailed mapping of all heritage items and how they are affected by the proposal, Include details of any proposed mitigation measures 	Appendix S
measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the guidelines in the NSW Heritage Manual (Heritage Office and Department of Urban Affairs and Planning 1996), • Be undertaken by a suitably qualified heritage consultant(s) with relevant heritage expertise (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria), • Include a statement of heritage impact for all heritage items (including significance assessment), This should include detailed mapping of all heritage items and how they are affected by the proposal,	Appendix S Section 19.3.2 and Appendix S

Secretary's Environmental Assessment Requirement Where addressed in the EIS arrangements and access, landscape and vistas, and architectural noise treatment Develop an appropriate archaeological assessment Not applicable. No physical methodology, including research design, in consultation archaeological test investigations are with the Department and the Heritage Council of New recommended. South Wales, to guide physical archaeological test excavations and include the results of these excavations, Provision of future mitigation strategies for all identified Section 19.4 archaeological impacts that would arise from the project. Impacts to Aboriginal heritage (including cultural and Chapter 22 archaeological significance), in particular impacts to Aboriginal objects and potential archaeological deposits (PAD), should be assessed. Where impacts are identified, the assessment shall: outline the proposed mitigation and management Section 22.4 measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the measures) generally consistent with the Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation (Department of Environment and Conservation (DEC) 2005a), be undertaken by a suitably qualified heritage Appendix V consultant(s). demonstrate effective consultation with Aboriginal Section 22.1 communities in determining and assessing impacts and developing and selecting options and mitigation measures (including the final proposed measures), assess and document the archaeological and cultural Section 22.3 significance of cultural heritage values of affected sites, and develop an appropriate assessment methodology, Not applicable - no physical including research design, in consultation with the excavations are recommended Department and the Office of Environment and Heritage, to guide physical archaeological test excavations of the sites and areas of PAD identified in a manner that establishes the full spatial extent and significance of any archaeological evidence across each site/area of PAD, and include the results of these excavations. Biodiversity - including, but not limited to An assessment of the potential ecological impacts of the Section 20.3 and 20.4 project, with specific reference to vegetation and habitat clearing, connectivity, edge effects, weed dispersal, riparian and aquatic habitat impacts and soil and water quality impacts. The assessment must: Make specific reference to impacts on threatened species Sections 20.31, 20.32 and 20.4 and endangered ecological communities, Have reference to the *Draft Guidelines for Threatened* **Section 20.1.1** Species Assessment (Department of Environment and Conservation (DEC)/Department of Primary Industries Please note that due to no potential (DPI) 2005), Threatened Biodiversity Survey and impacts on aquatic habitat or fish passage as a result of the Project Assessment: Guidelines for Developments and Activities (refer to section 20.3.1, reference to (DEC 2004). Guidelines for Aquatic Habitat Management and Fish Conservation (DPI 1999) and any relevant draft the Guidelines for Aquatic Habitat

or final recovery plans.

Management and Fish Conservation

(DPI 1999) was not required.

Secretary's Environmental Assessment Requirement	Where addressed in the EIS
Include details of any offset measures that may be	Section 20.6
required, including demonstration that the measures are	
consistent with the Principles for the use of biodiversity	
offsets in NSW (Department of Environment, Climate	
Change and Water (DECCW) 2008).	
Note:	
The Department encourages you to undertake this	Section 20.1.1
assessment in accordance with the Framework for	
Biodiversity Assessment (OEH 2014a) and the NSW	
Biodiversity Offsets Policy for Major Projects (OEH 2014b).	
Environmental Risk Analysis — notwithstanding the abov	e key assessment requirement,
The EIS must include an environmental risk analysis to	Chapter 28
identify potential environmental impacts associated with the	
infrastructure (construction and operation), proposed	
mitigation measures and potentially significant residual	
environmental impacts after the application of proposed	
mitigation measures. Where additional key environmental	
impacts are identified through this environmental risk	
<u> </u>	
analysis, an appropriately detailed impact assessment of this additional key environmental impact must be included in the	
·	
EIS. Consultation	
	Chantar 7
During the preparation of the EIS, you must consult with the	Chapter 7
relevant local, State or Commonwealth Government	
authorities, service providers, community groups and affected	
landowners.	
Local, State and Commonwealth government authorities,	
including the:	
Environment Protection Authority,	
Office of Environment and Heritage (including Heritage	
Division),	
The Heritage Council of NSW,	
Department of Primary Industries,	
NSW Office of Water,	
NSW Health (including Local Health Districts),	
Transport for NSW,	
UrbanGrowth NSW,	
Sydney Olympic Park Authority,	
Ashfield City Council,	
Auburn Council,	
Burwood Council,	
City of Canada Bay Council, and	
Strathfield Municipal Council.	
specialist interest groups, including Local Aboriginal Land	Sections 7.3 and 7.4
Councils, Aboriginal stakeholders, and pedestrian and bicycle	Occions 7.3 and 7.4
user groups; utilities and service providers;	Sections 7.3 and 7.4
	Sections 7.3 and 7.4 Sections 7.3 and 7.4
the public, including community groups and adjoining and	Sections 7.3 and 7.4
affected landowners	Continue 7.4 st. 1.7.4
The EIS must describe the consultation process and the	Sections 7.1 and 7.4
issues raised, and identify where the design of the project has	
been amended in response to these issues. Where	
amendments have not been made to address an issue, a	
short explanation should be provided.	