



Integrated
Management
System

Planning Approval Consistency Assessment Form

Barangaroo Additional Land

SM ES-FT-414

Sydney Metro Integrated Management System (IMS)

Applicable to:	Sydney Metro
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The Planning Approval Consistency Assessment Form should be completed in accordance with the Sydney Metro Planning Approval Consistency Assessment Procedure (SM ES-PW-314) and Sydney Metro Environmental Planning and Approval Manual (SM ES-ST-216)

Existing Approved Project

Planning approval reference details (Application/Document No. (including modifications)):
SSI-15_7400 Sydney Metro City & Southwest – Chatswood to Sydenham

Date of determination:
9 January 2017

Type of planning approval:
Part 5.1 – Critical State Significant infrastructure

Description of existing approved project you are assessing for consistency:

The Chatswood to Sydenham component of Sydney Metro City & Southwest comprises a new metro rail line, approximately 16 kilometres long, between Chatswood and Sydenham. New metro stations will be provided at Crows Nest, Victoria Cross, Barangaroo, Martin Place, Pitt Street and Waterloo, as well as new underground metro platforms provided at Central Station.

Section 6.6.3 of the Environmental Impact Statement outlines the description of the approved infrastructure at Barangaroo Station. The indicative layout provided in Figure 6-16 of the EIS shows two station entries both to the west of Hickson Road – one to the north (in North Cove Park) and one to the south (north of the proposed Agar Street and integrated with future development).

The construction footprint for Barangaroo Station is shown in Figure 7-13 of the EIS. Barangaroo Station will be constructed as a cut and cover station.

A previous consistency assessment (Approved CA 'TfNSW7 Barangaroo Station') considered the impact of removing some of the spoil generated through this site by barge using wharf facilities around Barangaroo including the use of additional land surrounding the site which has been temporarily leased from BDA.

The purpose of this consistency assessment is to address minor temporary additional land extensions required to facilitate the safe passage of pedestrians around the construction site and increase the laydown area available for the storage of machinery and equipment associated with the construction of the Barangaroo Station.

Relevant background information (including EA, REF, Submissions Report, Director General's Report, MCoA):

- Chatswood to Sydenham Environmental Impact Statement and accompanying technical papers (May, 2016)
- Chatswood to Sydenham Submissions and Preferred Infrastructure Report (October, 2016)
- Conditions of Approval (dated 9 January 2017).
- Approved TfNSW7 Barangaroo Station Consistency Assessment (9th May 2017)

Description of proposed development/activity/works

Describe ancillary activities, duration of work, working hours, machinery, staffing levels, impacts on utilities/authorities, wastes generated or hazardous substances/dangerous goods used.

The Submissions and Preferred Infrastructure Report noted that TfNSW would continue to work with the Barangaroo Delivery Authority (BDA) to ensure that critical station and rail infrastructure is fully integrated within the Central Barangaroo locality and development and addresses design challenges associated with Barangaroo Station and optimise heritage outcomes, the public domain response and station and development outcomes. It also stated that the temporary occupation of construction areas within Central Barangaroo could impact on the staging of that development and that the final configuration of construction activities within Central Barangaroo would be determined in consultation with BDA with the objective of minimising disruption to construction staging within the precinct.

As part of this commitment to work with BDA to ensure integration within the Central Barangaroo locality and minimise construction staging impacts, Transport for NSW propose the following additional temporary land leases:

- **SA-H8 – Block 7 (from October 2017 until approx. October 2018):** will be used to undertake piling to the western station box wall. This will involve piling rigs and associated equipment working from Block 7 to complete the piles. This will also involve associated amenities and storage and lay down areas for temporary pile casings and reinforcement cages and storage of other construction materials and excavated material temporary stockpiling including excavated materials from heritage investigations and site sieving operations. There is a potential conflict between pedestrians using the western footpath of Hickson Road and the piling operations for the western wall. To overcome this conflict the TSE JV plan to divert pedestrians through Block 7 using the perimeter fence on the southern and western sides of Block 7 as one side of a defined pedestrian walkway.
- **SA-H9 – Nawi cove area (for the duration of the TSE Works - from October 2017 to August 2021):** this area will be used for general site setup, material storage and laydown.
- **SA-H10 – 25 Hickson Road car park (for the duration of the TSE Works - from October 2017 to August 2021):** will be used to relocate pedestrians to Barangaroo parklands from Hickson Road. In addition it will be used to locate the gantry which carries all TBM support services such as slurry pipelines across Hickson Road. The area will also be used as additional construction roadway to improve swept paths for construction traffic entering and leaving our work area located west of the station box.

The scope and methodology of the construction activities at Barangaroo Station has not changed, although the location of some of these activities has been moved. There would be no change to the duration of work, working hours, machinery or staffing levels.

See Appendix A for a map of the additional temporary construction area which is shown in green.

Timeframe

When will the proposed change take place? For how long?

Works at the site are anticipated to commence in October 2017 and be completed by end 2022, followed by testing and commissioning.

There is no change to the timeline as a result of this assessment.

Site description

Provide a description of the site on which the proposed works are to be carried out, including, Lot and Deposited Plan details, where available. Map to be included here or as an appendix. Detail of land owner.

The proposed location of the traction substation and required construction site for Barangaroo Station is located between Hickson Road and Nawi Cove / Sydney Harbour, within the suburb of Barangaroo and to the north of the Central Barangaroo development. The proposed substation and construction footprint would be located on Lot 101, DP 1204946.

Site Environmental Characteristics

Describe the environment (i.e., vegetation, nearby waterways, land use, surrounding land use), identify likely presence of protected flora/fauna and sensitive area.

The site is located between Barangaroo Reserve and the Central Barangaroo development, to the west of Hickson Road. The site comprises of the concrete hardstand area utilised during the construction of the Barangaroo development, a portion of an area referred to as Wulugul Walk, including the foreshore adjacent to Dukes Pier and the carpark of the Munn St warehouse.

Justification for the proposed works

Address the need for the proposed works, whether there are alternatives to the proposed works (and why these are not appropriate), and the consequences with not proceeding with the proposed work.

As mentioned above as part of the commitment to work with BDA the additional land lease will allow for the TSE contractor to provide safe egress around the construction site for pedestrians and allow for additional laydown area.

Environmental Benefit

Identify whether there are environmental benefits associated with the proposed works. If so, provide details:
The environmental benefit of the additional construction lease area includes the ability to complete heritage sieving work onsite.

Control Measures

Will a project and site specific EMP be prepared? Are appropriate control measures already identified in an existing EMP?
No a site specific CEMP is not required, the works area would be adequately covered by the existing contractors CEMP.

Climate Change Impacts

Is the site likely to be adversely affected by the impacts of climate change? If yes, what adaptation/mitigation measures will be incorporated into the design?
The works area is temporary only, and as such would not be impacted by the effect of climate change.

Impact Assessment – Construction

Attach supporting evidence in the Appendices if required. Make reference to the relevant Appendix if used.

Aspect	Nature and extent of impacts (negative and positive) during construction (if control measures implemented) of the proposed/activity, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Flora and fauna	There would be impacts to trees as a result of the temporary additional land. Impact would include tree trimming and tree removal. Once the project is finished the trees would be replanted in consultation with the local council and BDA.	All tree impacts will be assessed and approved through the Chatswood to Sydenham Condition of Approval E6.	Y	Y	<i>Trees to be replanted in consultation with BDA + City of Sydney.</i>
Water	NA	NA	NA	Y	—
Air quality	NA	NA	NA	Y	—
Noise vibration	The construction noise and vibration impacts would be consistent with those identified in the EIS. The equipment used and activities assessed would be the same, however the works would be spread out over a larger area. This area is currently used by BDA for their development and therefore it is no change from the current land use.	The noise and vibration impacts would be managed in accordance with the contractors CEMP and the conditions of approval. No additional mitigation measures would be required.	Y	Y	—
Indigenous heritage	No impact. The temporary use of this land does not go below the ground surface and therefore no potential to impact Aboriginal Heritage. Additionally there are no known above ground heritage items.	NA	NA	Y	—

Aspect	Nature and extent of impacts (negative and positive) during construction (if control measures implemented) of the proposed/activity, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Non-indigenous heritage	No impact. Whilst the precinct surrounding these works is heritage listed, these works would not have an impact to any known heritage items or places. Additionally the temporary use of this land does not go below the ground surface and therefore no potential to impact Non-Aboriginal archaeology.	NA	NA	Y	—
Community and stakeholder	The temporary occupation of the open space areas would have a minor land use and community impact associated with the removal of foreshore access. Access to Dukes Pier may be restricted to support the revised construction footprint, however opportunities to maintain access to these facilities would be investigated as part of construction planning.	The impact is temporary; opportunities to maintain access to the foreshore would be looked at by the contractor. Works would be undertaken in accordance with the Sydney Metro Community Communication Strategy including notifications about work dates, scope and changes to pedestrian routes.	Y	Y	—
Traffic	NA	NA		Y	—
Waste	NA	NA		Y	—

(Uncontrolled when printed)

Aspect	Nature and extent of impacts (negative and positive) during construction (if control measures implemented) of the proposed/activity, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Social	As above for Community and Stakeholder.	NA		Y	-
Economic	NA			Y	-
Visual	The temporary occupation of the open space areas would have a high adverse landscape impact and additional visual impacts on Barangaroo Reserve, Wulugul Walk and the foreshore areas due to the greater restriction of access to the foreshore and reduced proximity of construction activities to the remaining foreshore areas and reserve. This would reduce the attractiveness of this space	Following completion of construction, the path and landscaping would be reinstated in consultation with BDA and City of Sydney Council.	Y	Y	-
Urban design	NA	NA		Y	-
Geotechnical	NA	NA		Y	-

Aspect	Nature and extent of impacts (negative and positive) during construction (if control measures implemented) of the proposed/activity, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Land use	The temporary occupation of the open space areas would have a minor land use impact associated with the removal of foreshore access.	No additional mitigation measures are proposed.	Y	Y	-
Climate Change	NA	NA		Y	-
Risk	NA	NA		Y	-
Other	NA	NA		Y	-
Management and mitigation measures	NA	NA		Y	-

Impact Assessment – Operation

Attach supporting evidence in the Appendix if required. Make reference to the relevant Appendix if used.

Aspect	Nature and extent of impacts (negative and positive) during operation (if control measures implemented) of the proposed activity/works, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Flora and fauna	NA	NA		Y	—
Water	NA	NA		Y	—
Air quality	NA	NA		Y	—
Noise vibration	NA	NA		Y	—
Indigenous heritage	NA	NA		Y	—
Non-indigenous heritage	NA	NA		Y	—
Community and stakeholder	NA	NA		Y	—
Traffic	NA	NA		Y	—
Waste	NA	NA		Y	—
Social	NA	NA		Y	—
Economic	NA	NA		Y	—

(Uncontrolled when printed)

Aspect	Nature and extent of impacts (negative and positive) during operation (if control measures implemented) of the proposed activity/works, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Visual	NA	NA		Y	—
Urban design	NA	NA		Y	—
Geotechnical	NA	NA		Y	—
Land use	NA	NA		Y	—
Climate Change	NA	NA		Y	—
Risk	NA	NA		Y	—
Other	NA	NA		Y	—
Management and mitigation measures	NA	NA		Y	—

Consistency with the Approved Project

<p>Based on a review and understanding of the existing Approved Project and the proposed modifications, is there is a transformation of the Project?</p>	<p>No. The proposed additional construction land is temporary only. The project would continue to provide a new metro rail line between Chatswood and Sydenham.</p>	
<p>Is the project as modified consistent with the objectives and functions of the Approved Project as a whole?</p>	<p>Yes. The proposed temporary change to the construction site footprint at Barangaroo Station would be consistent with the objectives and functions of the approved project.</p>	
<p>Is the project as modified consistent with the objectives and functions of elements of the Approved Project?</p>	<p>Yes. The proposed temporary change to the construction site footprint at Barangaroo Station would be consistent with the objectives and functions of the approved project.</p>	
<p>Are there any new environmental impacts as a result of the proposed works/modifications?</p>	<p>No new environmental impacts are anticipated as a result of the temporary increase in construction site footprint at Barangaroo Station.</p>	
<p>Is the project as modified consistent with the conditions of approval?</p>	<p>Yes. The proposed works at Barangaroo Station would be consistent with the conditions of approval.</p>	
<p>Are the impacts of the proposed activity/works known and understood?</p>	<p>Yes. The impacts of the additional temporary construction footprint at Barangaroo Station are understood.</p>	
<p>Are the impacts of the proposed activity/works able to be managed so as not to have an adverse impact?</p>	<p>Yes. The impacts of the proposed works at Barangaroo Station can be managed so as to avoid an adverse impact.</p>	

Other Environmental Approvals

Identify all other approvals required for the project:

Additional land must be added to the contractors EPL

Author certification

To be completed by person preparing checklist.

I certify that to the best of my knowledge this Consistency Checklist:

- Examines and takes into account the fullest extent possible all matters affecting or likely to affect the environment as a result of activities associated with the Proposed Revision; and
- Examines the consistency of the Proposed Revision with the Approved Project; is accurate in all material respects and does not omit any material information.

Name:	Nicole Williams	Signature:	
Title:	Environmental Planning Manager		
Company:	Sydney Metro, TfNSW	Date:	27/09/2017

Environmental Representative Review

As an approved ER for the Sydney Metro City & Southwest project, I have reviewed this assessment. I am satisfied that mitigation measures are adequate to minimise the impact of the proposed work.

Name:	Jo Robertson	Signature:	
Title:	Environmental Representative	Date:	28/09/17


This section is for Sydney Metro only.

Application supported and submitted by

Name:	Ben Armstrong	Date:	27.9.17
Title:	Environmental Planning Manager Senior Environment Manager	Comments:	
Signature:			

Based on the above assessment, are the impacts and scope of the proposed activity/modification consistent with the existing Approved Project?

- Yes The proposed activity/works are consistent and no further assessment is required.
- No The proposed works/activity is not consistent with the Approved Project. A modification or a new activity approval/ consent is required. Advise Project Manager of appropriate alternative planning approvals pathway to be undertaken.

Endorsed by			
Name:	FIL CERONE	Date:	11 / 10 / 17
Title:	Principal Manager Director Northwest/City & Southwest, Sustainability, Environment & Planning	Comments:	Trees to be replanted in consultation with BDA + City of Sydney.
Signature:			

Appendix A

Temporary additional construction land shown in Green.

Curve Table

Curve ID	Chord Bearing	Chord Length	Arc Length	Radius
1	215°12'45"	72.25	78.67	55.51
2	189°00'15"	48.08	48.43	117.38
3	196°16'05"	75.89	76.52	172.37
4	38°27'10"	14.83	15.13	21.88
5	354°02'22"	20.22	20.93	23.05
6	208°44'55"	16.17	16.91	16.42
7	26°31'25"	22.33	23.15	25.00
8	64°26'30"	9.88	9.94	25.00
9	213°31'45"	40.26	43.68	31.50

Area	Lot	Dp Number
Area 'SA-H1'	PT101	DP1204946
	1	DP863319
	2	DP869022
Area 'SA-H2'	PT101	DP1204946
	PT101	DP1204946
Area 'SA-H3'	PT101	DP1204946
Area 'SA-H4'	PT101	DP1204946
Area 'SA-H5'	PT101	DP1204946



REVISIONS	No.	DATE	REVISION DETAILS	DRAWN	CHK	APP
H	14.08.2017	ADDITIONAL AREAS	ZHY	ZHY	DW	
G	20.06.2017	VARIOUS AMENDMENTS	ZHY	ZHY	DW	
F	10.03.2017	VARIOUS AMENDMENTS	ZHY	ZHY	MGL	
E	20.12.2016	ALTERNATE SUBSTATION SITE - ARTARMON	ZHY	ZHY	ZHY	
D	10.11.2016	VARIOUS AMENDMENTS	ZHY	MGL	MGL	

LEGEND

- Coordinate identifier
- Area boundary
- AREA SUBJECT TO THIS ASSESSMENT
- PREVIOUSLY APPROVED ADDITIONAL LAND (CONSISTENCY ASSESSMENT)
- ORIGINAL EIS

NOT TO SCALE

COORDINATES: MGA
 DATUM: MGA
 ORIGIN: MGA

CLIENT: **NSW Transport for NSW**

SURVEY: []
 DRAWN: ZHY
 CHECKED: ZHY
 APPROVED: []

DATE OF SURVEY: []
 DATE OF PLAN: 14.09.2017
 DATE LAST SAVED: 14.09.2017
 DATE APPROVED: []

TITLE: **SYDNEY METRO CITY AND SOUTH WEST CONSISTENCY ASSESSMENT BARANGAROO STATION**

DRAWING No: NWLRSRT-RPS-SBR-SR-DWG-000015-A-Barangaroo Consistency Assessment.dwg

JOB No: **PR124856**

ISSUE: **A**

SHEET 1 OF 1 SHEETS

SIZE: **A1**