



Integrated
Management
System

Planning Approval Consistency Assessment Form

Crows Nest utility augmentation

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)

1.0 Existing Approved Project
Planning approval reference details (Application/Document No. (including modifications)): Sydney Metro Chatswood to Sydenham SSI-7400
Date of determination: 09/01/17
Type of planning approval: 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 would 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. The Environmental Impact Statement for the Project identified that utilities would need to be adjusted, relocated and / or protected where there is a possibility they would otherwise be impacted by construction. The EIS noted that further investigation and consultation with service asset owners would be carried out as the design develops to confirm exact locations, heights and depths of the utilities. The EIS noted that access would be maintained to utility assets within or adjacent to the construction footprint when required during construction. Utility works assessed under the EIS for the Crows Nest worksite were limited to high voltage (HV) power supply (see map in Appendix A).
Relevant background information (including EA, REF, Submissions Report, Director General's Report, MCoA): <ul style="list-style-type: none"> • 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).

2.0 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 Sydney Metro Chatswood to Sydenham Environmental Impact Statement (EIS) detailed the utility supply and relocation routes as they were known at the time. Detailed design carried out since determination of the EIS has resulted in changes to some of the utility works scope, including altered alignments and requirements for additional services relocation. Works are required for the following utilities:

- Low voltage (LV) and High voltage (HV) power
- Sewer
- Gas
- Telecommunications
- Mains water

The following details the proposed site alignments for the above listed utilities, illustrated in Appendix B.

A network of HV/LV underground and overhead services including a substation require relocation to facilitate the station excavation. This relocation includes trenching along Clarke Lane, along and across Hume Street, between Pacific Highway and Clarke Street, and along the western footpath of Clarke Street, and crossing the Pacific Highway through existing conduits.

Trenching approximately 40 meters for a new gas line is required to bridge two existing gas mains on the corner of Pacific Highway and Willoughby Road allowing removal of the gas service on Hume Street.

Telecommunications relocation will be undertaken from the western side of intersection of Clarke Street and Hume Street, running south to Willoughby and through to the intersection of Pacific Highway and Hume Street along the eastern extent. Relocation of this service is also required in the southern extent of Hume Street between Pacific Highway to Clarke Street. New conduits are also required to be trenching across the Pacific Highway to join the southern sides of Hume street.

Sewer main adjustments are required on Hume Street to allow the sewer to span the station excavation. This requires the construction of a new pit at the intersection of Hume Street and the Pacific Highway and replacement of a section of the main along Hume Street.

3.0 Timeframe

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

There will be no change to the project program as a result of this assessment. Works are expected to occur between October 2017 and March 2018.

Approved, standard working hours for the Project are as follows:

- 07:00 – 18:00 Monday to Friday
- 08:00 – 13:00 Saturdays
- No works Sundays or Public holidays

Out of hours works are required due to impacts on the road network and will be undertaken in accordance with the Project Planning Approval Conditions and Environmental Protection License 20971.

4.0 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 Crows Nest worksite covers an area of approximately 6,000 square metres parallel to the Pacific Highway, to the south of Oxley Street (refer to Appendix A). The site was formally occupied by commercial and residential buildings. Utility works will be carried out in the footpaths along the Pacific Highway, Willoughby Road, Clarke Street, Clarke Lane and Hume Street (as described in Section 2.0).

5.0 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.

Crows Nest worksite is bounded to the west by the Pacific Highway, to the east by Clarke Street, to the north by Oxley Street and to the south by Willoughby Road. The worksite occurs within the North Sydney Council local government area (LGA). All bordering streets are classified as local road with the exception of the Pacific Highway which is a RMS Classified Road (State).

The works will be carried out in an area zoned as B4 – Mixed Use under the North Sydney Local Environment Plan 2012 (LEP), with nearby areas zoned as B3 – Commercial Core, and R3 - High Density Residential. A number of noise sensitive receivers are located adjacent to the site, including childcare, educational, medical and recording studio buildings. Other receivers in the vicinity of works include hotels, places of worship and entertainment venues.

The site is highly urban and largely cleared of vegetation. There are a number of street trees present on the foot path of adjacent streets. Trees include *Platanus acerifolia* (London Plane), *Melaleuca quinquenervia* (Broad leaf paper-bark), and *Sapium sebiferum* (Chinese Tallow).

Works on the corner of the Pacific Highway and Willoughby Road are located adjacent to the historic heritage item, Willoughby House, listed under the North Sydney Local Environment Plan 2012. Seven other local historic heritage items are located within 20 m of the site. An AHIMS search conducted on 04/10/17 did not identify any registered Aboriginal sites near the proposed works. Due to the disturbed geography and urban setting of the site, it is unlikely aboriginal heritage would be present.

The site is not located near any waterways, registered contaminated land, or acid sulphate soils.

6.0 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.

Utilities are required to be adjusted, relocated and / or protected where they would otherwise be impacted by construction for the approved Sydney Metro Chatswood to Sydenham State Significant Infrastructure. The routes for the utility adjustments were not known at the time of writing the EIS and have since been determined through detailed design.



7.0 Environmental Benefit

Identify whether there are environmental benefits associated with the proposed works. If so, provide details:

The environmental benefit of this utility augmentation includes the provision of essential services to the construction worksite and continuation of existing services through relocation and protection works. More specifically, the connection of electricity services reduces emissions from diesel powered generators which would otherwise be required for construction.

8.0 Control Measures

Will a project and site specific EMP be prepared? Are appropriate control measures already identified in an existing EMP?

A site-specific EMP will not be prepared for this scope, as the proposed works will be managed in accordance with the TSE Works Construction Environmental Management Plan (SMCSWTSE-JCG-TPW-EM-PLN-002010) and the Project Planning Approval Conditions.

9.0 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?



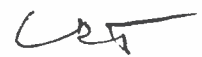
This scope will not directly be impacted by climate change.

10.0 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	Minor impact - Street trees along the proposed alignments may require tree trimming or removal.	Tree trimming and removal would be undertaken in accordance with Condition E6. Implementation of the Construction Flora and Fauna Management Plan (SMCSWTSE-JCG-TPW-EM-PLN-002016)	Y	Y	<i>[Signature]</i>
Water	No change from EIS and Modification Assessment impact	Implementation of the Construction Soil Water and Groundwater Management Plan (SMCSWTSE-JCG-TPW-EM-PLN-002014)	Y	Y	<i>[Signature]</i>
Air quality	No change from EIS and Modification Assessment impact	Implementation of the Construction Air Quality Management Plan (SMCSWTSE-JCG-TPW-EM-PLN-002018)	Y	Y	<i>[Signature]</i>

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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
Noise vibration	The proposed work would have a noise and vibration impact that extends beyond that assessed in the EIS. A noise and vibration assessment has been carried out for these works (see Construction Noise and Vibration Impact Statement (CNVIS): Local Area & Utility Works - Crows Nest). Expected noise and vibration levels have been predicted and highest noise and vibration impacts are predicted to occur when rockbreakers and road saws are utilised in proximity to sensitive receivers. Noise mitigation and management measures have been prescribed in the CNVIS.	The potential noise and vibration impacts associated with the proposed work would be managed in accordance with existing the Project Planning Approval Conditions Noise and vibration mitigation and management measures identified in the CNVIS will be implemented.	Y	Y	
Indigenous heritage	No change from EIS and Modification Assessment impact	Implementation of the Unexpected Finds Protocol	Y	Y	
Non-indigenous heritage	The proposed works would be undertaken within the footpath adjacent to an historic heritage item (Willoughby House). The works will be outside the curtilage of this heritage item and there will be no direct impact.	The proposed works would be managed in accordance with existing mitigation measures and conditions of approval. The heritage significance of adjacent heritage items will not be affected. The TSE Works Unexpected Heritage Finds Protocol will be implemented.	Y	Y	

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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
Community and stakeholder	Potential impact on community from traffic changes, noise and vibration and pedestrian access. Any impact would be minor and short-term.	Affected community and appropriate mitigation measures are identified in the CNVIS. Traffic, including pedestrian access, will be managed in accordance with the Site-Specific Construction Traffic Management Plans, see below	Y	Y	CBT
Traffic	Localised impacts during utility relocation include possible lane closures.	The proposed works would be managed in accordance with existing the Project Planning Approval conditions. Where permits/licences are required, these would be obtained prior to commencement of works, in accordance with the Construction Traffic Management Plan (SMCSWTSE-JCG-TPW-EM-PLN-002013).	Y	Y	CBT
Waste	Excavation for utilities works would result in a minor increase in spoil generated.	All waste generated will be classified and disposed of in accordance with the Construction Waste and Recycling Management Plan (SMCSWTSE-JCG-TPW-EM-PLN-002022).	Y	Y	CBT
Social	No change from EIS and Modification Assessment impact	N/A	Y	N/A	CBT
Economic	No change from EIS and Modification Assessment impact	N/A	Y	N/A	CBT

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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
Visual	There will be minor visual impacts associated with construction. These will be temporary, and disturbed areas will be restored to pre-existing conditions.	The proposed works would be carried out in accordance with the Visual Amenity Management Plan (SMCSWTSE-JCG-TPW-EM-PLN-002020).	Y ✓	N/A	CDT
Urban design	No change from EIS and Modification Assessment impact	N/A	Y	N/A	CDT
Geotechnical	No change from EIS and Modification Assessment impact	N/A	Y	N/A	CDT
Land use	No change from EIS and Modification Assessment impact	N/A	Y	N/A	CDT
Climate Change	No change from EIS and Modification Assessment impact	N/A	Y	N/A	CDT
Risk	No change from EIS and Modification Assessment impact	N/A	Y	N/A	CDT
Other	N/A	N/A	Y	N/A	CDT
Management and mitigation measures	No change from EIS and Modification Assessment impact	N/A	Y	N/A	CDT

11.0 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	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Water	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Air quality	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Noise vibration	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Indigenous heritage	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Non-indigenous heritage	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Community and stakeholder	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Traffic	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Waste	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Social	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS
Economic	No change to the operational impacts described in the EIS.	Not applicable		MA	CRS



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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	No change to the operational impacts described in the EIS.	Not applicable		N/A	CRS
Urban design	No change to the operational impacts described in the EIS.	Not applicable		N/A	CRS
Geotechnical	No change to the operational impacts described in the EIS.	Not applicable		N/A	CRS
Land use	No change to the operational impacts described in the EIS.	Not applicable		N/A	CRS
Climate Change	No change to the operational impacts described in the EIS.	Not applicable		N/A	CRS
Risk	No change to the operational impacts described in the EIS.	Not applicable		N/A	CRS
Other	No change to the operational impacts described in the EIS.	Not applicable		N/A	CRS
Management and mitigation measures	No change to the operational impacts described in the EIS.	Not applicable		N/A	CRS

12.0 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 works would not transform the project. 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 works 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 changes identified in this assessment are temporary and are 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 risks are outstanding. All risks would be adequately addressed through the application of the mitigation measures in the above tables.</p>
<p>Is the project as modified consistent with the conditions of approval?</p>	<p>Yes. The proposed works 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 proposed works 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 can be managed so as to avoid an adverse impact.</p>

13.0 Other Environmental Approvals

Identify all other approvals required for the project:

No additional environmental approvals are required.



14.0 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.

Author

Name:	Cindy Liles	Signature:	
Title:	Environment and Sustainability Graduate	Date:	16.2.18.
Company:	JHCPBG		

JHCPBG certification

Name:	Robert Muir	Signature:	
Title:	Senior Environment Coordinator	Date:	16.2.18
Company:	JHCPBG		

15.0 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:	27/2/18

This section is for Sydney Metro only.

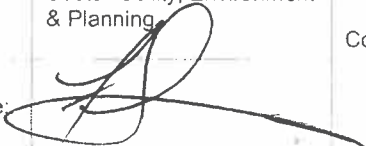
Application supported and submitted by

Name:	Craig Tucker	Date:	27/2/18.
Title:	Environmental Planning Manager	Comments:	
Signature:			

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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:	28/2/18
Title:	Principal City & Southwest, Sustainability, Environment & Planning	Comments:	
Signature:			

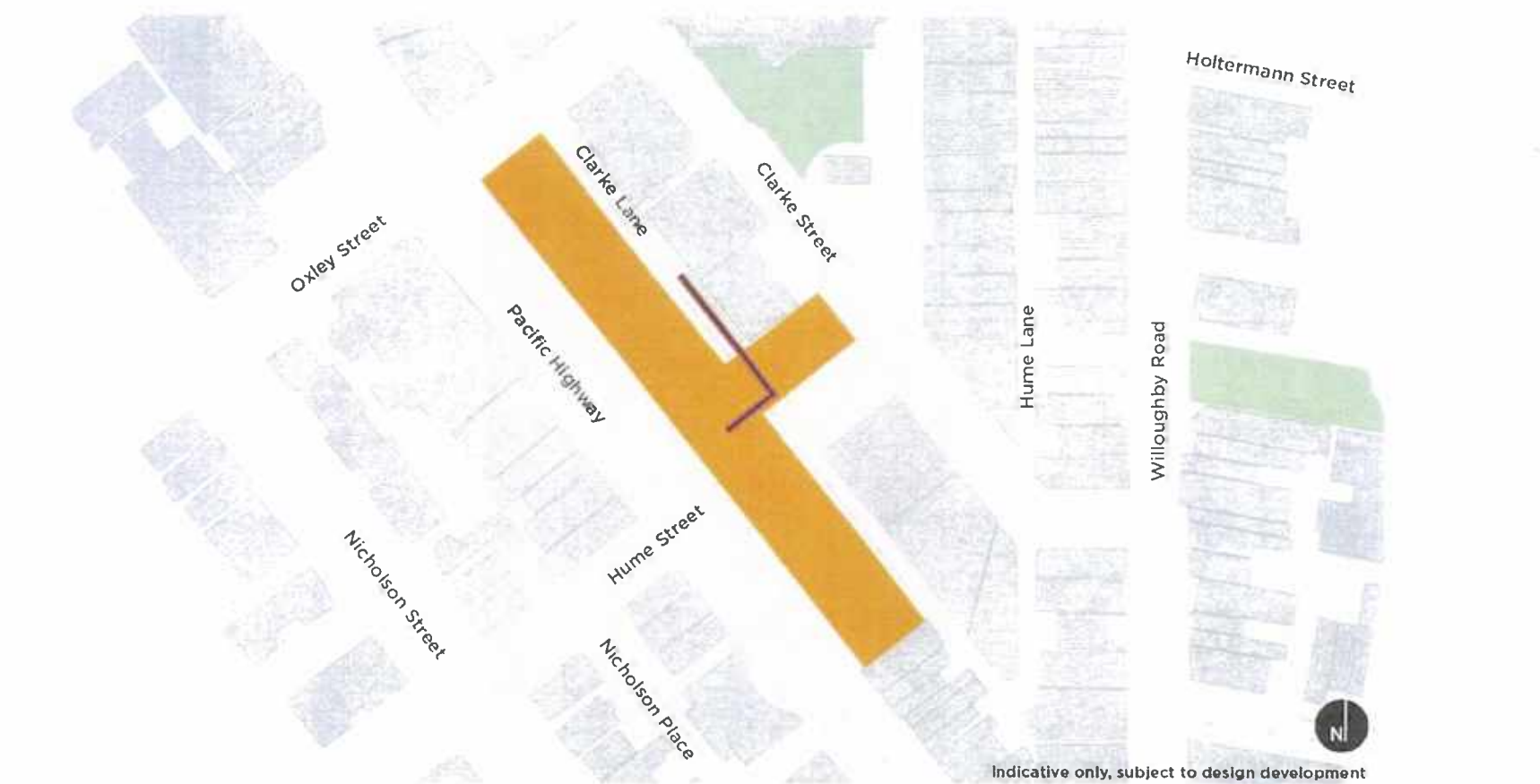
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Sydney Metro – Integrated Management System (IMS)

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Appendix A – Map of utility works assessed in the Sydney Metro City & Southwest Environmental Impact Statement



KEY

- Proposed construction site area
- Power supply route

Figure 7-24 Crows Nest Station – power supply route

Appendix B – Map of proposed utility works



Legend

	Indicative Site Boundary	HV/DV Power Supply Route Relocation
	Trenching	Sewer Adjustment
	Communication Route	Gas Relocation
	HV/DV Power Supply Route EIS Remaining	Local Area Works

SYDNEY METRO CITY & SOUTHWEST -TSE WORKS
Utility Works- Consistency Assessment
Crows Nest Worksite

Site 12Z of 14