

Construction Heritage Management Plan

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Date	19 January 2024	19 January 2024	19 January 2024

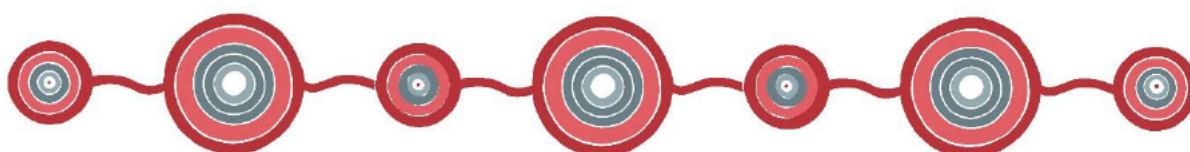
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A W EDWARDS PTY LIMITED

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AW EDWARDS acknowledges the Traditional Owners of Country throughout Australia and recognises the continuing connection to lands, waters and communities.
 We pay our respect to Aboriginal and Torres Strait Islander people and culture, and to their Elders past and present.

“COMMUNITY”
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1 INTRODUCTION

1.1 BACKGROUND

The Sydney Metro City & Southwest is a 30 kilometre metro rail between Chatswood and Bankstown, including; 17 kilometres of new tunnel from Chatswood, under the harbour to Sydenham connecting seven new underground stations at Crows Nest, Victoria Cross (North Sydney), Barangaroo, Pitt Street, Martin Place, Central and Waterloo. Upgrading 13 kilometres of the Bankstown line, including 11 existing stations; Sydenham, Marrickville, Dulwich Hill, Hurlstone Park, Canterbury, Campsie, Belmore, Lakemba, Wiley Park, Punchbowl and Bankstown plus southern service facilities.

Several separate environmental impact assessments of the project were progressed by Transport for NSW (TfNSW). In May 2016, an environmental impact statement (EIS) for the Chatswood to Sydenham section of the project was placed on public exhibition. A preferred infrastructure report on the Chatswood to Sydenham component (the PIR) was then prepared and publicly released in October 2016. The project was approved on 9 January 2017 (SSI 15_7400) (project planning approval). Following approval, six modifications have been approved by NSW Department of Planning, Infrastructure and Environment (DPIE).

A W Edwards has been appointed by Sydney Metro to construct the Crows Nest Integrated Station Development (the project).

1.2 PURPOSE

This Construction Heritage Management Plan (CHMP) describes how A W Edwards will avoid, minimise and manage impacts to Aboriginal and non-Aboriginal heritage during construction of the project.

This CHMP forms part of the Construction Environmental Management Plan (CEMP) for the project and was prepared in accordance with:

- The relevant planning approvals and conditions of approval (CoA) for the project (refer to Chapter 2);
- Applicable legislation and regulatory requirements;
- Sydney Metro Construction Environmental Management Framework – Chatswood to Sydenham (CEMF);
- Revised Environmental Mitigation Measures (REMMs); and
- Sydney Metro contractual requirements, including the Project Deed and Scope of Work and Technical Criteria.

1.3 PROJECT OVERVIEW

Crows Nest Station will be between the Pacific Highway and Clarke Lane (eastern side of the Pacific Highway) and between Oxley Street and south of Hume Street. It will be strategically located to the south of the existing station at St Leonards and close to the leisure and retail strip along Willoughby Road.

Crows Nest Station will support the St Leonards specialised centre as a southern gateway to commercial and mixed use activities. The station will also improve access to the restaurants and specialist shops in the Crows Nest village. Crows Nest Station will:

- Create a new transport focus on the southern side of the St Leonards specialised centre.
- Maximise legibility and connectivity with the local urban structure.

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- Integrate the station with local improvement plans and make a positive contribution to the sense of place.

Refer to Chapter 2 of the CEMP for detailed scope of work and construction methodology.

1.4 OBJECTIVES

The Chatswood to Sydenham Submissions and Preferred Infrastructure Report identified the following environmental performance outcome for construction:

- The project would be sympathetic to heritage items and, where feasible and reasonable, avoid and minimise impacts to non-Aboriginal heritage items and archaeology

The following heritage management objectives, consistent with those described in Section 10.1 of the CEMF will be applied to the project:

- Implement measures to appropriately identify, avoid and manage all known items Aboriginal and non-Aboriginal heritage significance that may be impacted by the project;
- Implement Sydney Metro's Unexpected Heritage Finds Procedure (SM-18-00105232) to avoid accidental impacts on heritage items, places or value;
- Conduct routine training to maximise awareness of Aboriginal and historic heritage management for the project (including assessment and notification of unexpected finds);
- Identify, investigate, record and assess the significance of any discovered Aboriginal and historic heritage items, including any cultural features; and
- Avoid harm, destruction and defacement of human remains, including Aboriginal burials in accordance with the Sydney Metro Exhumation Management Plan (CoA E27).

1.5 CONSULTATION

In accordance with CoA C3 for the project, the CHMP must be prepared in consultation with the Heritage Council of NSW (or its delegate) and the relevant Council(s). The consultation period began on the 27/11/2020 and ended on the 18/12/2020.

The plan was submitted for consultation to the Heritage Council of NSW on 27/11/2020 who reviewed the CHMP in relation to historic heritage management and is satisfied with the measures outlined in it for the management of historic heritage. North Sydney Council was also consulted on the 27/11/2020 and had no additional feedback on the plan as of 18/12/2020.

1.6 ENVIRONMENTAL MANAGEMENT STRUCTURE

This CHMP is part of A W Edward's environmental management framework for the project and is supported by other documents such as:

- Construction Environmental Management Plan (CEMP);
- Construction Noise and Vibration Management Plan (CNVMP);
- Community and Stakeholder Engagement Plan; and
- Environmental Control Maps (ECMs), inclusive of relevant heritage management measures.

1.7 APPROVAL

This CHMP will be reviewed by Sydney Metro, endorsed by the Independent Environment Representative and submitted to the Secretary of DPIE for approval in accordance with CoA C8.

This CHMP will be submitted for approval to the Secretary of DPIE no later than one month before commencement of construction of the project.

Construction will not commence until the CEMP and sub-plans (including this CHMP) have been approved.

2 LEGAL AND APPROVAL REQUIREMENTS

2.1 PLANNING APPROVALS

Sydney Metro City & Southwest has been declared as Critical State Significant Infrastructure (CSSI) under Division 5.2 of the NSW Environmental Planning and Assessment Act 1979 (EP&A Act) and State Environmental Planning Policy (State and Regional Development) 2011. There are two CSSI planning approvals for Sydney Metro City & Southwest:

- Construction and operation of the section between Chatswood and the Sydenham dive site known as “CSSI_7400”, which was granted on 9 January 2017. Several modifications to CSSI_7400 have since been approved. A W Edwards will be required to comply with CSSI_7400, including the modifications to this approval, to the extent required by Sydney Metro.
- The section of the rail corridor between Sydenham and Bankstown and is known as “CSSI_8256” and does not have any requirements that are relevant to the project.

Any future amendments to the CSSI approval (Chatswood to Sydenham) will be subject to Sydney Metro approval and will continue to be managed and lodged by Sydney Metro.

The environmental assessments relevant to the project, which have been referenced during the preparation of this CHMP are:

- Sydney Metro City & Southwest – Chatswood to Sydenham – Environmental Impact Statement (TfNSW, 2016).
- Sydney Metro City & Southwest – Crows Nest Over Station Development – Environmental Impact Statement (TfNSW, 2018).
- Minor Works Approval for Enabling Works (CN-PCMW-001 Site Establishment Works) – April 2020.

2.2 LEGISLATION AND REGULATORY REQUIREMENTS

Legislation relevant to heritage management includes:

- EP&A Act;
- NSW National Parks and Wildlife Act 1974 (NPW Act);
- NSW Heritage Act 1977 (Heritage Act); and
- Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act).

As the project is CSSI, the requirements of the Heritage Act and the NPW Act are assessed under Part 5.1 of the EP&A Act, and therefore no separate permits or approvals under the Heritage Act or NPW Act will be required.

As outlined further in Chapter 5, as required by CoA E20, in the event that a potential relic(s) is/are discovered, construction will cease in the affected area and an Excavation Director notified to assess the significance level of the find(s).

2.3 GUIDELINES

The following Sydney Metro and TfNSW guidelines are applicable:

- Sydney Metro Unexpected Heritage Finds Procedure.
- Sydney Metro Exhumation Management Plan.

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- Sydney Metro City & Southwest Construction Noise and Vibration Strategy (SM-ES-ST-210).
- TfNSW Environmental Incident/Non-Compliance Report (9TP-FT-101).
- TfNSW Environmental Incident Classification and Reporting (9TP-PR-105).

The following guidelines may be of relevance to the project in the event of an unexpected heritage find:

- Code of Practice for the archaeological investigation of Aboriginal objects in NSW (OEH, 2010);
- Aboriginal cultural heritage consultation requirements for proponents 2010 (OEH, 2010);
- Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH, 2011);
- Assessing Significance for Historical Archaeological Sites and Relics (NSW Heritage Branch, Department of Planning, 2009);
- NSW Heritage Manual 1996 (Heritage Office and Department of Urban Affairs and Planning, 1996);
- Assessing Heritage Significance (NSW Heritage Office, 2001);
- Levels of Heritage Significance (NSW Heritage Office, 2008);
- Statements of Heritage Impact (Heritage Office, 2002);
- NSW Government's Aboriginal Participation in Construction Guidelines (2007);
- How to Prepare Archival Recording of Heritage Items (Heritage Branch 1998);
- The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance (Australia ICOMOS, 2013);
- NSW Heritage Council's Criteria for Assessment of Excavation Directors (2011);
- NSW Heritage Office Archaeological Assessments (1996);
- NSW Heritage Council's Photographic Recording of Heritage Items Using Film or Digital Capture (2006) guidelines; and
- NSW Heritage Office Guidelines for Management of Human Skeletal Remains (1998).

2.4 PROJECT APPROVAL REQUIREMENTS

This CHMP has been produced to demonstrate compliance with the relevant CoA stipulated in SSI_7400, as summarised in Table 2.4.

The CoA relevant to the project have been confirmed via the Sydney Metro Chatswood to Sydenham Staging Report (Sydney Metro, 2019).

Table 2.4: CoA requirements

ITEM	REQUIREMENT	DOCUMENT REFERENCE
C3	The following CEMP sub-plans must be prepared in consultation with the relevant government agencies identified for each CEMP sub-plan and be consistent with the CEMF and CEMP referred to in Condition C1: (g) Heritage – prepared in consultation with the Heritage Council (or delegate) and relevant Council(s)	This CHMP Section 1.5
C4	The CEMP sub-plans must state how: (a) the environmental performance outcomes identified in the EIS as amended by the documents listed in A1 will be achieved;	Chapter 4

ITEM	REQUIREMENT	DOCUMENT REFERENCE
	(b) the mitigation measures identified in the EIS as amended by documents listed in A1 will be implemented;	Chapter 4
	(c) the relevant terms of this approval will be complied with; and	Section 2.4
	(d) issues requiring management during construction, as identified through ongoing environmental risk analysis, will be managed.	Chapter 4
C5	The CEMP sub-plans must be developed in consultation with relevant government agencies. Where an agency(ies) request(s) is not included, the Proponent must provide the Secretary justification as to why. Details of all information requested by an agency to be included in a CEMP sub-plan as a result of consultation and copies of all correspondence from those agencies, must be provided with the relevant CEMP sub-plan.	Section 1.5
C8	Construction must not commence until the CEMP and all CEMP sub-plans have been approved by the Secretary. The CEMP and CEMP sub-plans, as approved by the Secretary, including any minor amendments approved by the ER (or AA in regards to the Noise and Vibration sub-plan), must be implemented for the duration of construction. Where the CSSI is being staged, construction of that stage is not to commence until the relevant CEMP and sub-plans have been approved by the Secretary.	Section 1.7
E10	The Proponent must not destroy, modify or otherwise physically affect any Heritage item not identified in documents referred to in Condition A1.	Section 5.1
E15	The Proponent must salvage items of heritage value from heritage listed buildings and structures to be demolished, before they are demolished, and assess options for its sympathetic reuse (including integrated heritage displays) on the project or other options for repository, reuse and display. Suitable repository locations must be established in consultation with Relevant Council(s). Any State listed items or elements for salvage must be determined in consultation with the Heritage Division of the OEH.	No heritage listed buildings or structures are planned to be demolished.
E17	The Archaeological Assessment Research Design Report (AARD) in the documents listed in A1 must be implemented. Final Archaeological Method Statements must be prepared in consultation with the Heritage Council of NSW (or its delegate) before commencement of archaeological excavation works. The final methodology must: (a) provide for the detailed analysis of any heritage items discovered during the investigations; (b) include detailed site specific archaeological management and artefact management strategies; (c) include cored soil samples for soil and pollen for the Pitt Street site within the Tank Stream Valley; and (d) provide for a sieving strategy.	Not applicable to the project given that the works will not impact upon archaeological sites or require archaeological excavation.
E18	Before excavation of archaeological management sites, the Proponent must nominate a suitably qualified Excavation Director who complies with the Heritage Council of NSW's Criteria for Assessment of Excavation Directors (July 2011) to oversee and advise on matters associated with historic archaeology and advise the Department and OEH. Where archaeological excavation is required, the Excavation Director must be present to oversee excavation and advise on archaeological issues. The Excavation Director must be given the authority to advise on the duration and extent of oversight required as informed by the provisions of the approved AARD and Excavation Methodology.	Not applicable to the project given that the works will not impact upon archaeological sites or require archaeological excavation.

ITEM	REQUIREMENT	DOCUMENT REFERENCE
	A final archaeological report must be submitted to the Heritage Council of NSW within two (2) years of the completion of archaeological excavation on the project. The report must include information on the entire historical archaeological program relating to the CSSI.	
E19	An Unexpected Heritage Finds Procedure must be prepared: (a) To manage unexpected heritage finds in accordance with any guidelines and standards prepared by the Heritage Council of NSW or OEH; and (b) By a suitably qualified and experienced heritage specialist The procedure must be included in the AARD and must be implemented for the life of the project.	Chapter 5 Appendix A
E20	In the event that a potential relic/s is/are discovered, relevant construction must cease in the affected area and the Excavation Director must be notified and assess the significance level of the find/s and provide mitigation advice according to the significance level and the impact proposed. The Excavation Director must attend the site in accordance with E18 to oversee the excavation where relics of State significance are found. The Secretary must be notified at the same time as the Heritage Council of NSW (or its delegate) of any relic of State significance found. An Archaeological Relic Management Plan specific to the relic of State Significance must be prepared in consultation with the Heritage Council of NSW (or its delegate) to outline measures to be implemented to avoid and/or minimise harm to and/or salvage the relic of State significance. Construction in the vicinity of the discovery must not recommence until the requirements of the ARMP have been implemented, in consultation with the Excavation Director. The Proponent must notify the Secretary in writing of the outcome of consultation on the Archaeological Relic Management Plan with the Heritage Council of NSW.	Chapter 5 Appendix A
E21	The Proponent must prepare a Heritage Interpretation Plan which identifies and interprets the key Aboriginal and Non-Aboriginal heritage values and stories of heritage items and heritage conservation areas impacted by the CSSI. The Heritage Interpretation Plan must inform the Station Design and Precinct Plan referred to in Condition E101. The Heritage Interpretation Plan must be prepared in accordance with the NSW Heritage Manual, the NSW Heritage Office's Interpreting Heritage Places and Items: Guidelines (August 2005), and the NSW Heritage Council's Heritage Interpretation Policy and include, but not be limited to: (a) a discussion of 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 the Sydney Terminal and Central Railway Stations Group, Martin Place Station, Sydenham Station and Sydenham Pit and Drainage Pumping Station Precincts; (b) identification and confirmation of interpretive initiatives implemented to mitigate impacts to archaeological Relics, heritage items and conservation areas affected by the CSSI including; i. use of interpretative hoardings during construction ii. community open days iii. community updates iv. station and precinct design; and	The Heritage Interpretation Plan was previously completed during the design phase of the project. Section 4.3 Any interpretive hoardings will be installed in line with the Construction Visual and Landscape management Plan.

ITEM	REQUIREMENT	DOCUMENT REFERENCE
	(c) Aboriginal cultural and heritage values of the project area including the results of any archaeological investigations undertaken. The Heritage Interpretation Plan must be prepared in consultation with the Heritage Council of NSW (or its delegate), Relevant Councils and Registered Aboriginal Parties, and must be submitted to the Secretary before commencement of construction.	
E23	The Proponent must take all reasonable steps so as not to harm, modify or otherwise impact any Aboriginal object associated with the CSSI except as authorised by this approval	Chapter 5
E24	Before excavation, the Proponent must implement the Aboriginal Cultural Heritage Assessment prepared for the CSSI and included in the PIR. Excavation and/or salvage must be undertaken by a qualified archaeologist in consultation with the Registered Aboriginal Parties for the CSSI.	Section 3.1.2
E25	Where previously unidentified Aboriginal objects are discovered during construction of the CSSI, construction must stop in the vicinity of the affected area and a suitable qualified and experienced Aboriginal heritage expert must be contacted to provide specialist heritage advice, before works recommence. The measures to consider and manage this process must be specified in the Heritage Management sub-plan required by Condition C3 and, where relevant, include registration in the OEH's Aboriginal Heritage Information Management System (AHIMS)	Section 4.1 Chapter 5 Appendix A
E26	This approval does not allow the Proponent to harm, modify, or otherwise impact human remains uncovered during the construction and operation of the CSSI, except in accordance with the Exhumation Management Plan	Chapter 5
E27	An Exhumation Management Plan must be prepared to guide the relocation of recovered human remains. The Exhumation Management Plan must be prepared: (a) in consultation with, and meeting the requirements of, the OEH and NSW Health; and (b) in accordance with the Guidelines for Management of Human Skeletal Remains (NSW Heritage Office, 1998b) and NSW Health Policy Directive – Exhumation of human remains (December, 2013), and other relevant guidelines and standards prepared by the Heritage Council of NSW or OEH. The Exhumation Management Plan must be submitted to the Secretary for information before the commencement of excavation works.	Appendix B
E30	The Proponent must conduct vibration testing before and during vibration generating activities that have the potential to impact on heritage items to identify minimum working distances to prevent cosmetic damage. 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 mitigation measures.	Section 6.3
E31	The Proponent must seek the advice of a heritage specialist on methods and locations for installing equipment used for vibration, movement and noise monitoring of heritage-listed structures.	Section 6.3
E100	The Proponent must establish a Design Review Panel (DRP) to refine design objectives for place making, public realm and urban and heritage integration applicable to the length of the project and provide advice on the application of the objectives to key design elements in	The DRP was previously established by Sydney Metro and would be

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ITEM	REQUIREMENT	DOCUMENT REFERENCE
	<p>relation to place making, architecture, heritage, urban and landscape design and artistic aspects of the CSSI.</p> <p>The DRP must:</p> <p>(a) comprise five members who are experts in one of the identified design elements;</p> <p>(b) include:</p> <p>i. the NSW Government Architect as Chair (or their representative);</p> <p>ii. a representative from the Heritage Council,</p> <p>(c) meet at least four times a year, or any other timeframe agreed by the DRP; and</p> <p>(d) keep meeting minutes and a schedule of action items arising from each meeting.</p> <p>Relevant Council(s) and other key stakeholders such as UrbanGrowth NSW and must be invited to participate in DRP meetings to advise on local issues and applicability of design review outcomes as they relate to the local context of each station location.</p>	consulted as required during the project.

2.5 CONSTRUCTION ENVIRONMENTAL MANAGEMENT FRAMEWORK

This CHMP has been produced to demonstrate compliance with the Sydney Metro Construction Environmental Management Framework as summarised in Table 2.5.

Table 2.5: CEMF requirements

ITEM	REQUIREMENT	DOCUMENT REFERENCE
10.1 (a)	The following heritage management objectives will apply to construction:	-
	i) Embed significant heritage values through any architectural design, education or physical interpretation;	Chapter 4 Table 4.1
	ii) Minimise impacts on items or places of heritage value;	Chapter 4
	iii) Avoid accidental impacts on heritage items; and	Appendix A Chapter 4 Table 4.1-4.4
	iv) Maximise worker's awareness of Aboriginal and non-Aboriginal (historic) heritage.	Chapter 4 Section 6.2
10.2 (a)	Principal Contractors will develop and implement a Heritage Management Plan which will include as a minimum:	This CHMP
	i) Evidence of consultation with Registered Aboriginal Parties and the NSW Heritage Council;	Section 1.5 Consultation with RAPs not required.
	ii) Identify initiatives that will be implemented for the enhancement of heritage values and minimisation of heritage impacts, including procedures and processes that will be used to implement and document heritage management initiatives;	Chapter 4
	iii) The heritage mitigation measures as detailed in the environmental approval documentation;	Chapter 4
	iv) The responsibilities of key project personnel with respect to the implementation of the plan;	Chapter 4 Section 6.1
	v) Procedures for interpretation of heritage values uncovered through salvage or excavation during detailed design;	N/A The Heritage Interpretation Plan (HIP) concluded that

ITEM	REQUIREMENT	DOCUMENT REFERENCE
		the works at Crows Nest are neither in a conservation area or permanently affect heritage buildings.
		The HIP recommends that opportunities to tell the story of the early land holdings and describe the lives and contribution of Berry and Wollstonecraft could be considered in the final station design.
	vi) Procedures for undertaking salvage or excavation of heritage relics or sites (where relevant), consistent with and any recordings of heritage relics prior to works commencing that would affect them;	Chapter 5
	vii) Details for the short and/or long term management of artefacts or movable heritage;	Chapter 5
	viii) 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);	Chapter 4
	ix) Procedures for unexpected heritage finds, including procedures for dealing with human remains	Chapter 5 Appendix A
	x) Heritage monitoring requirements; and	Section 6.3
	xi) Compliance record generation and management	Section 6.7
10.2 (b)	The Contractor's regular inspections will include checking of heritage mitigation measures.	Section 6.3
10.2 (c)	Compliance records will be retained by the Contractor. These will include: i) Inspections undertaken in relation to heritage management measures; ii) Archival recordings undertaken of any heritage item iii) Unexpected heritage finds and stop work orders; and iv) Records of any impacts avoided or minimised through design or construction methods	Section 6.7
10.3	Examples of heritage mitigation measures include: i. Any heritage item not affected by the works will be retained and protected throughout construction; ii. During construction undertake professional archaeological investigation, excavation, and reporting of any historical Indigenous heritage sites of state significance which will be affected. Reporting may be completed as construction progresses; iii. Undertake archival recordings of all non-Indigenous heritage items affected by the works prior to commencement of works; and	Section 4.2 Section 2.2 Chapter 5 Appendix A N/A

ITEM	REQUIREMENT	DOCUMENT REFERENCE
	iv. Implement unexpected heritage find procedures for Indigenous and non-Indigenous heritage items.	Chapter 5 Appendix A

3 HERITAGE CONTEXT AND POTENTIAL IMPACTS

3.1 ABORIGINAL HERITAGE

3.1.1 Existing environment

Evidence of Aboriginal occupation in NSW dates back to around 50,000 to 60,000 years at Lake Mungo (in NSW's southwestern region, about 110 km northeast of Mildura) and up to 30,000 years at Parramatta. Prior to the appropriation of their land by Europeans, Aboriginal people lived in small family or clan groups that were associated with particular territories or places. The language group spoken across Sydney was known as Darug. The Darug language group is thought to have covered the area south from Port Jackson, north from Botany Bay, and west from Parramatta (TfNSW, 2016).

Archaeological and historical records indicate that marine and estuarine resources formed an important part of the subsistence activities of the Aboriginal people that inhabited the Port Jackson area. Shellfish not only formed an important subsistence resource, but were also used as fish-hooks, shafted onto spears, used for repairing spears, and for cutting. Other locally available raw materials, including quartz, were also favoured for cutting edges (TfNSW, 2016).

3.1.2 Potential impacts

Prior to bulk earthworks completed as part of earlier phases of the Crows Nest Integrated Station Development, the site was located on a crest away from major watercourses and was likely to contain shallow soils (associated with Ashfield Shale). Construction of commercial buildings, roads and a large rail cutting is likely to have impacted or removed previous archaeological deposits (TfNSW, 2016).

The site has low archaeological significance as high levels of previous ground disturbance would have impacted any surface or subsurface Aboriginal sites. As the site was located on a sandstone ridge and slope landform with shallow soils, any remnant archaeological deposits that previously existed were likely to be low density and unlikely to represent areas of focus for Aboriginal occupation (TfNSW, 2016).

Given that all soil profiles have been previously removed from the site prior to A W Edwards occupation of the site, no archaeological potential is expected to remain and the requirement for an archaeologist being present during excavation work is made redundant. In the event of an unexpected archaeological find, A W Edwards would proceed in line with the Sydney Metro Unexpected Heritage Finds Procedure and an archaeologist would be engaged to investigate.

3.2 NON-ABORIGINAL HERITAGE

3.2.1 Existing environment

Historic plans suggest that the earliest structures in the study area are from the late 19th century associated with the Berry's Estate subdivision (TfNSW, 2016).

The lower North Shore was generally held in large estates until the mid-19th century when subdivision of the area occurred more frequently. After the T1 North Shore Line was completed in 1893, suburban settlement in the area continued. However, due to difficulties crossing the harbour, this was slow (TfNSW, 2016).

As illustrated in Figure 3.1, the project is located within proximity to two local heritage items listed under the North Sydney Local Environment Plan, namely:

- St Leonards Centre located adjacent to the site on Clarke Lane; and
- Higgins Buildings located opposite the Pacific Highway on the corner of Hume Street.

The site had the potential to contain archaeological remains associated with late 19th and early 20th century residential subdivision (TfNSW, 2016).

During work to upgrade utilities, tram lines running along the Pacific Highway were exposed; these trams were known to operate in Crows Nest from the late 19th century to mid 1900s.

3.2.2 Potential impacts

The project would result in negligible indirect impacts to the Higgins Buildings, associated with visual impact. Similarly, the project would result in negligible visual impacts to the St Leonards Centre, however construction works have potential to result in direct impacts to the building if vibration levels are not appropriately managed (TfNSW, 2016).

There was previously a low to moderate potential for archaeological remains at the site associated with historical residential and commercial development of the precinct (TfNSW, 2016).

The excavation of the cut-and-cover station resulted in the complete removal of archaeological remains within the station box footprint. As such, given that all soil profiles have been previously removed from the site prior to A W Edwards occupation of the site, no archaeological potential is expected to remain.

Further excavation across Pacific Highway has the potential to further impact tram lines, however, the salvage value would be low as the items have been determined as not significant by the heritage consultants.

Figure 3.1: Heritage constraints



4 HERITAGE MANAGEMENT

4.1 ABORIGINAL HERITAGE

Table 4.1 outlines the REMMs to be implemented for the project to minimise the potential for impacts to unidentified Aboriginal objects.

Table 4.1: Aboriginal heritage REMMs

REFERENCE	MITIGATION MEASURE	TIMING	RESPONSIBILITY
AH1	Aboriginal stakeholder consultation would be carried out in accordance with the NSW Office of Environment and Heritage's Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010.	Pre-construction	A W Edwards
AH2	The cultural heritage assessment report would be implemented.	Pre-construction	A W Edwards
AH4	Appropriate Aboriginal heritage interpretation would be incorporated into the design for the project in consultation with Aboriginal stakeholders.	Pre-construction	Sydney Metro

Table 4.2 outlines the mitigation and management measures to be implemented by A W Edwards during construction of the project to minimise the potential for impacts to unidentified Aboriginal objects.

Table 4.2: Aboriginal heritage mitigation and management measures

MITIGATION MEASURE	TIMING	RESPONSIBILITY
Implement the Sydney Metro Unexpected Heritage Finds Procedure (Appendix A) in the event that unexpected cultural Aboriginal heritage finds are encountered during construction, including human remains.	Construction	All personnel and contractors
Before the start of construction, all personnel working on site will be trained regarding the Sydney Metro Unexpected Finds Procedure and about their responsibilities in accordance with this CHMP. All construction staff would receive training in the recognition of Aboriginal cultural heritage material. This training would include information such as the importance of Aboriginal cultural heritage material and places to the Aboriginal community, as well as the legal implications of removal, disturbance and damage to any Aboriginal cultural heritage material and sites identified during the works.	Pre-construction Construction	Environment & Planning Manager

4.2 NON-ABORIGINAL HERITAGE

Table 4.3 outlines the REMMs to be implemented for the project to minimise the potential for impacts to surrounding items of heritage significance.

Table 4.3: Non-Aboriginal heritage REMMs

REFERENCE	MITIGATION MEASURE	TIMING	RESPONSIBILITY
NAH2	The archaeological research design would be implemented. Significant archaeological findings would be considered for inclusion in heritage interpretation (as per NAH8) for the project and be developed in consultation with the relevant local council.	Pre-construction	A W Edwards
NAH3	An Exhumation Policy and Guideline would be prepared and implemented. It would be developed in accordance with the Guidelines for Management of Human Skeletal Remains (NSW Heritage Office, 1998b) and NSW Health Policy Directive – Exhumation of human remains (December, 2013). It would be prepared in consultation with NSW Heritage Office and NSW Health.	Pre-construction	A W Edwards
NAH8	Appropriate heritage interpretation would be incorporated into the design for the project in accordance with the NSW Heritage Manual, the NSW Heritage Office's Interpreting Heritage Places and Items: Guidelines (August 2005), and the NSW Heritage Council's Heritage Interpretation Policy.	Pre-construction	Sydney Metro

Table 4.4 outlines the mitigation and management measures to be implemented by A W Edwards during construction of the project to minimise the potential for impacts to surrounding items of heritage significance.

Table 4.4: Non-Aboriginal heritage mitigation and management measures

MITIGATION MEASURE	TIMING	RESPONSIBILITY
Implement the Sydney Metro Unexpected Heritage Finds Procedure (Appendix A) in the event that any potential archaeological objects of Non-Aboriginal significance are identified during construction.	Construction	All personnel and contractors
Before the start of construction, all personnel working on site will be trained regarding the Sydney Metro Unexpected Finds Procedure and about their responsibilities in accordance with this CHMP. All construction staff would receive training in the recognition of non-Aboriginal heritage material including potential relics which may be encountered. This training would include information such as the legal implications of removal, disturbance and damage to any relics identified during the works.	Pre-construction Construction	Environment & Planning Manager
All construction personnel would be briefed on the presence and significance of local heritage items within proximity to the project, along with the measures required to ensure the protection of any items of heritage significance for the duration of the works.	Pre-construction Construction	Environment & Planning Manager
Carry out property condition surveys of heritage listed buildings within 50 metres of the project site and/or transportation routes.	Pre-construction	Project Engineer

MITIGATION MEASURE	TIMING	RESPONSIBILITY
Structural and vibration monitoring may be required in accordance with the CNVMP.	Construction	All personnel and contractors
Issues requiring management during construction, as identified through ongoing environmental risk analysis, will be managed.	Construction	Environment & Planning Manager
Sydney Metro's Exhumation Management Plan will be followed in the event of the discovery of human skeletal remains during construction.	Construction	Environment & Planning Manager

4.3 HERITAGE INTERPRETATION PLAN

A Heritage Interpretation Plan (HIP) has been prepared by Sydney Metro and identifies the key Aboriginal and Non-Aboriginal heritage values and stories of heritage items and heritage conservation areas affected by the CSSI. The Heritage Interpretation Plan must inform the Station Design and Precinct Plan referred to in Condition E101.

The HIP outlines site specific heritage interpretation responses relative to the potential impacts to Aboriginal and non-Aboriginal heritage. Notably, Section 5.3 of the HIP states the interpretation response for Crows Nest station is to tell the story of the early land holdings and describe the lives and contribution of Berry and Wollstonecraft. Construction of Crows Nest Station is a construct only contract, therefore the incorporation of heritage values into the design of the station is outside the scope of this CHMP.

5 PROCEDURES

Sydney Metro have prepared an Unexpected Heritage Finds Procedure (refer to Appendix A) to provide a method for managing unexpected heritage items (both Aboriginal and non-Aboriginal) that are discovered during construction of the project. The procedure meets the requirements of the CoA E19 and E25. The procedure outlines methods which take all reasonable steps so as not to harm, modify or otherwise impact any Aboriginal object associated with the CSSI.

As required by CoA E20, in the event that a potential relic(s) is/are discovered, construction will cease in the affected area and an Excavation Director notified to assess the significance level of the find(s). The Excavation Director will provide mitigation advice according to the significance level and the impact proposed. Based on the find and advice from the Excavation Director, an Archaeological Relics Management Plan (ARMP) will be produced in the event unexpected relics of State significance are discovered during construction. The ARMP will be prepared in consultation with the Heritage Council of NSW (or its delegate) to outline measures to be implemented to avoid and/or minimise harm to and/or salvage the relic of State significance. Construction in the vicinity of the discovery will not recommence until the requirements of the ARMP have been implemented, in consultation with the Excavation Director. This process will be carried out in accordance with the Sydney Metro Unexpected Heritage Find Procedure (Appendix A).

Sydney Metro will notify the Secretary in accordance with CoA E20 in the event of any relic of State significance being identified and detail the outcome of consultation on the ARMP with the Heritage Council of NSW.

5.1 UNEXPECTED HERITAGE FIND PROCEDURE

A W Edwards acknowledges Condition E10, that it must not destroy, modify or otherwise physically affect any Heritage item not identified in documents referred to in Project Planning Approval Condition A1.

The planning approval defines an 'Unexpected heritage find' as:

A potential heritage item discovered unexpectedly (usually during construction) but not identified in the EIS or PIR, or Archaeological Method Statements prepared under Condition E17 or E24 where assessment is required to determine if the item is a relic or is an Aboriginal object.

Unexpected heritage finds do not include human remains.

If unexpected finds (Aboriginal or non-Aboriginal), archaeological features or unidentified Aboriginal objects are exposed during construction of the project, all construction activities will cease immediately in the affected area and the Sydney Metro Unexpected Heritage Finds Procedure (Appendix A) would be implemented.

Human remains are not expected to be unearthed during the project. As such, in accordance with the note for CoA E27, it is highly likely that any human remains uncovered as part of the work would be under the jurisdiction of the NSW State Coroner and must be reported to NSW Police immediately. If any human remains are located NSW Police will be immediately notified. If required, Sydney Metro's Exhumation Management Plan (refer to Appendix B), which incorporates the Exhumation Policy and Guideline referred to in REMM NAH3, will be implemented.

6 COMPLIANCE MANAGEMENT

6.1 ROLES AND RESPONSIBILITIES

The overall roles and responsibilities for A W Edwards personnel are outlined in Chapter 4 of the CEMP. Specific responsibilities for the implementation of mitigation measures specific to heritage management are detailed in Chapter 4 of this CHMP.

6.2 TRAINING

All employees, contractors and staff working on site will undergo site induction training relating to Aboriginal and non-Aboriginal heritage management issues, including:

- Requirements of this CHMP;
- Relevant legislation;
- The location of known heritage constraints within proximity to the works, including establishment of exclusion or 'no-go' zones;
- Roles and responsibilities for heritage management;
- Procedure to follow in the event of an unexpected heritage item find or discovery of human remains during construction works;
- Disciplinary action around non-compliance with this CHMP.

Further details regarding staff induction and training are outlined in Chapter 6 of the CEMP.

6.3 MONITORING AND INSPECTIONS

General requirements and responsibilities in relation to inspections and compliance monitoring are documented in Chapter 9 of the CEMP. Routine environmental inspections will include determination of compliance with this CHMP.

To ensure the St Leonards Centre is sufficiently protected during the project, vibration monitoring may be required in accordance with the CNVMP as vibration from construction work has the potential to impact on the fabric of the heritage item.

Where activities may result in impacts to heritage buildings, a review of the construction activities will be undertaken by the Planning & Environment Manager to determine the appropriate monitoring. Input from a heritage specialist and vibration consultant may also be required. The location of monitoring equipment will be documented on the ECM.

6.4 NON-CONFORMANCES

Non-conformances will be identified, managed and documented in accordance with Section 9.4 of the CEMP.

6.5 COMPLAINTS

Complaints will be recorded and addressed in accordance with Section 7.4.2 of the CEMP and the Community and Stakeholder Engagement Plan.

6.6 AUDITS

Audits (both internal and external) will be undertaken to assess the effectiveness of management and mitigation measures, compliance with this CHMP, planning approval conditions and relevant guidelines. Audit requirements are detailed in Section 9.3 of the CEMP.

6.7 RECORD MANAGEMENT

Compliance records would be maintained as detailed in Section 11.2 of the CEMP and may include the following aspects regarding heritage management:

- Inspections undertaken in relation to heritage management measures;
- Archival recordings undertaken of any heritage item;
- Documentation and assessment reporting of any unexpected heritage finds;
- Records of any impacts avoided or minimised through design or construction method; and
- Vibration monitoring data.

The above records will be made available to Sydney Metro.

7 REVIEW AND IMPROVEMENT

The CHMP will be reviewed annually to ensure compliance with legislative requirements and its suitability and effectiveness for the project.

The review may be in the form of:

- A formal management review;
- A second party audit; and/or
- Inclusion as a separate item at a site meeting.

The Planning & Environmental Manager may review and update the CHMP more regularly where:

- Significant changes in design or construction activities occur;
- Where targets are not being achieved; or
- In response to lessons learned, audits and non-conformity reports.

Should the document review process identify any issues or items within the documents that need updating, it is the responsibility of A W Edwards to prepare the revised documents. The revised document will then be issued to Sydney Metro and the independent ER for endorsement of the changes prior to implementation. Updates to the CHMP may be approved by the independent ER where the amendments are deemed to be minor, significant changes will be consulted on and approved by the Secretary.

APPENDIX A – UNEXPECTED HERITAGE FIND PROCEDURE

APPENDIX B – SYDNEY METRO EXHUMATION MANAGEMENT PLAN