

# Sydney Metro City and Southwest Sydney Yard Access Bridge Project

## K26-LOR-PLN: Construction Heritage Management Plan

### Document

<b>Title</b>	Construction Heritage Management Plan
<b>Client</b>	Sydney Metro City & Southwest
<b>LOR Document Reference No.</b>	K26-LOR-PLN: Construction Heritage Management Plan
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## Terms and definitions

The following terms, abbreviations and definitions are used in this plan.

Terms	Explanation
AHD	Australian Heritage Database
AHIP	Aboriginal Heritage Impact Permit
AHIMS	Archaeological Heritage Information Management Service
Archaeological Potential	Potential of a site to contain archaeological remains. This potential is assessed by identifying former land uses and associated features through historical research, and evaluating whether subsequent actions (either natural or human) may have impacted on evidence for these former land uses.
AARD	Archaeological Assessment and Research Design
AMS	Archaeological Method Statement
CCOS	Council of City of Sydney
CEMP	Construction Environmental Management Plan
CHAR	Cultural Heritage Assessment Report
CHL	Commonwealth Heritage List
CHMP	Construction Heritage Management Plan
CoA	Conditions of Approval
CSSI	Critical State Significance Infrastructure
DNSDC	Defence National Storage and Distribution Centre
DoE	Department of the Environment
DPE	Department of Planning & Environment
EIS	Environmental Impact Statement
EPL	Environment Protection Licence
ER	Environmental Representative
HIA	Heritage Impact Assessment
HIS	Heritage Interpretation Strategy
Laing O'Rourke	Laing O'Rourke Australia Construction Pty Limited
LEP	Local Environment Plan
Local significance	An item is important in the course or pattern of the local area's cultural or natural history.
Minister, the	NSW Minister for Planning
NHL	National Heritage List
OEH	Office of Environment and Heritage
PAD	Potential Archaeological Deposit
The Burra Charter	The Australia ICOMOS Charter for Places of Cultural Significance (Adopted 31 October 2013)
RAPs	Registered Aboriginal Parties
Research Potential	An item has potential to yield information that will contribute to an understanding of the NSWs (or the local area's) cultural or natural history. It is possible for an area to be of high archaeological potential but low research potential.
RTS	Response to Submissions
SMCSW	Sydney Metro City and Southwest

## 1. Introduction

### 1.1 Purpose and Application

This Construction Heritage Management Sub-plan (CHMP) forms part of the Construction Environmental Management Plan (CEMP) for Sydney Metro City and Southwest Sydney Yard Access Bridge Project (SYAB) (the Project)

This CHMP has been prepared to address the management and mitigation of potential impacts of the Project to manage heritage issues and minimise risk of impact during the first stage of development under the Minister's Conditions of Approval (CoA).

It describes how Laing O'Rourke and its sub-contractors will ensure all risks associated with heritage are considered and managed effectively during the design and construction of the Project. It has been prepared to support, and should be read in conjunction with the Sydney Metro Construction Environmental Management Framework.

This CHMP addresses the relevant requirements of the Project Approval (EIS, Submissions Report and Minister's Conditions of Approval (CoA)) and all applicable guidelines and standards specific to heritage management during the Project construction works.

### 1.2 Background and Scope

#### 1.2.1 Sydney Yard Access Bridge Project Overview

The SYAB project forms part of the Sydney Metro City & Southwest project.

The SYAB is a new permanent road bridge that will provide a connection from Regent Street into the Sydney Yard. In particular, the SYAB will extend from Regent Street over the Mortuary Station line and intercity tracks into the Sydney Yard.

#### 1.2.2 Environmental Planning Approval

The Project has been assessed by the Department of Planning and Environment under Section 115ZB of the Environmental Planning and Assessment Act 1979 (EP&A Act) as Critical State Significant Infrastructure (CSSI). The Project, its impacts, consultation and mitigation were documented in the following suite of documents:

- Critical State Significant Infrastructure Application SSI 15\_7400;
- *Sydney Metro – Chatswood to Sydenham –Environmental Impact Statement* (Jacobs/Aracadis/RPS, 2016);
- *Sydney Metro – Chatswood to Sydenham –Response to Submissions and Preferred Infrastructure Report* (Jacobs/Aracadis/RPS 2016); and

The Planning Assessment Commission granted Approval for the Project on 9 January 2017 and the Laing O'Rourke Scope of works is subject to the Minister's Conditions of Approval.

Figure 1-1 SYAB project site

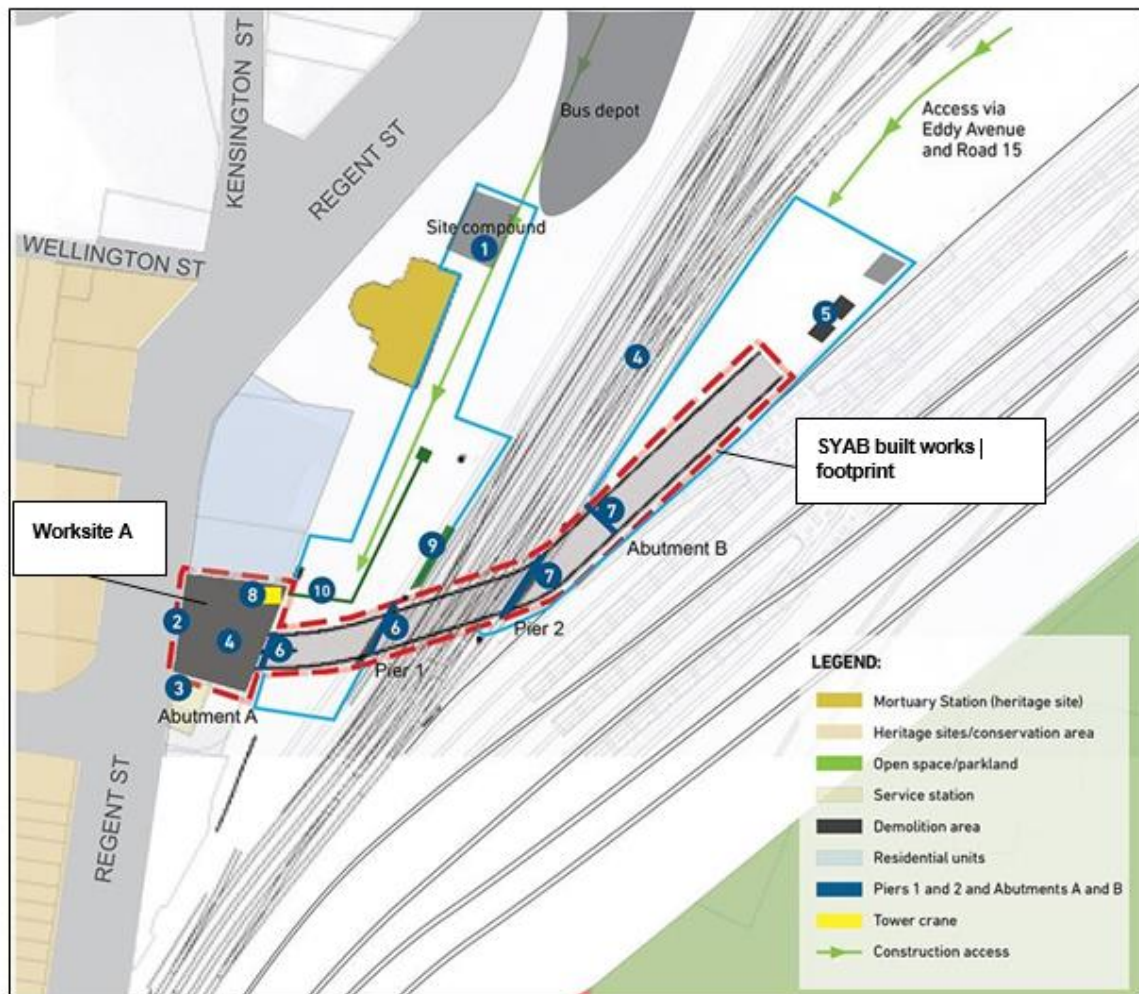
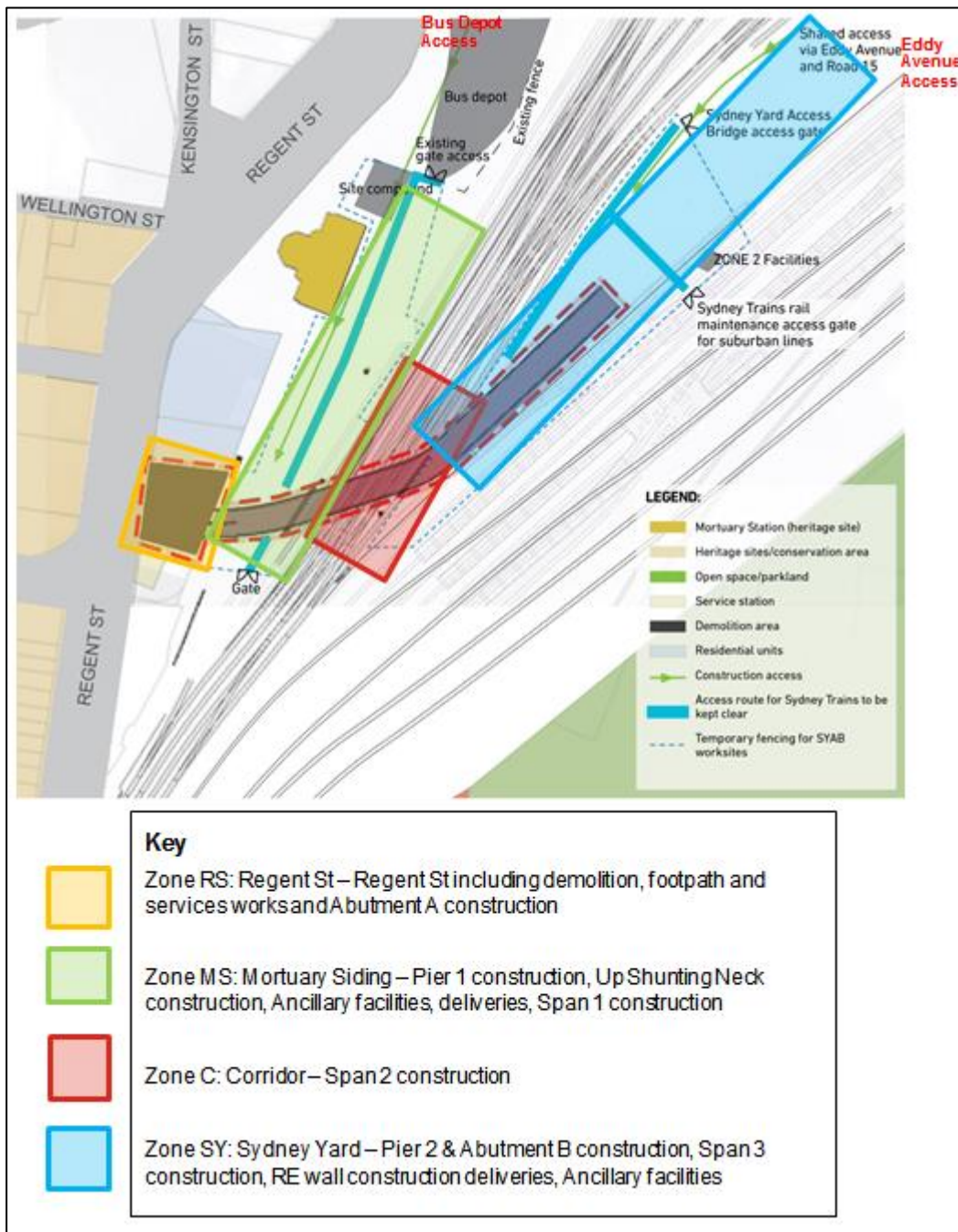




Figure 1-2 SYAB construction zones



1.2.3 Project Specific Environmental Management System

The Sydney Yard Access Bridge Project CEMP is the primary Environmental Management System (EMS) document for the delivery of the proposed works. This CHMP is one of the suite of Aspect-Specific support plans that have been prepared to support the CEMP.

### 1.3 Objectives and Targets

This CHMP provides the basis for the management of heritage issues and to minimise risk of impact during the first stage of development. The objectives and targets of heritage management and mitigation are outlined below:

- No disturbance or damage to known heritage sites or items.
- Unknown or undocumented heritage items are not knowingly destroyed, defaced or damaged.
- Identify, investigate, record and assess the significance of any discovered Aboriginal and non- Aboriginal archaeological resources before any further action, including harm, can take place.
- Consult with all relevant stakeholders prior to impacts in areas which have been assessed to possess archaeological potential, and/or upon the discovery of unexpected Aboriginal objects or cultural features.
- The curation, long-term care and control and/or interpretation of Aboriginal objects discovered shall be finalised in consultation with the RAPs
- Any historical relics found on site shall be kept safe for consideration and incorporation into interpretation within the public domain—within the proposed site fixtures.
- No harm, destruction or defacement of human remains, including Aboriginal burials, will occur.

### 1.4 Consultation

The Minister's CoA requires that the CHMP be prepared for the Project in consultation with the relevant Council and the NSW Heritage Council.

The key stakeholders related to Heritage who have been consulted in preparation of this CHMP include:

- NSW Heritage Council
- Sydney City Council

Consultation with Local Aboriginal Land Councils and other relevant Aboriginal stakeholders was undertaken during concept design as part of the Sydney Metro Chatswood to Sydenham Environmental Impact Statement (EIS) and also during preparation of the Cultural Heritage Assessment Report (CHAR) in accordance with OEH's guidelines *Aboriginal cultural heritage consultation requirements for proponents 2010*.

Aboriginal community consultation has been guided by OEH 'Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation'<sup>1</sup>, using the OEH 'Aboriginal cultural heritage consultation requirements for proponents'<sup>2</sup> as best practice. Consultation has been conducted for the entirety of the Sydney Metro route between Chatswood and Bankstown, encompassing the SYAB works.

<sup>1</sup> Department of Environment and Conservation 2005

<sup>2</sup> Department of Environment, Climate Change and Water 2010



In accordance with the Construction Environmental Management Framework, further consultation with Registered Aboriginal Parties was undertaken in relation to this plan. Responses from the RAPs are included in Appendix B.

A consultation log will be maintained for the Sydney Yards Access Bridge project to detail any correspondence or ongoing consultation being undertaken with the RAPs (refer to **Appendix B**) as part of the requirements of this CHMP, as well as any ongoing consultation undertaken with Sydney City Council and the Heritage Division of the Office of Environment and Heritage (refer to **Appendix A**).

## 2. Legal and Other Requirements

Table 2.1 below details the legislation and planning instruments considered during development of this Plan.

**Table 2-1 Legislation and Planning Instruments**

Legislation	Description	Relevance to this CHMP
<i>Environmental Planning and Assessment Act 1979</i>	This Act establishes a system of environmental planning and assessment of development proposals for the State.	The approval conditions and obligations are incorporated into this CHMP.
<i>Environment Protection and Biodiversity Conservation Act 1999 (Cwth)</i>	<p>The main purpose of this Act is to provide for the protection of the environment especially those aspects that are of national environmental importance and to promote ecological sustainable development.</p> <p>Heritage places are listed on the National Heritage List (NHL) for their 'outstanding heritage value to the nation' and are owned by a variety of constituents, including government agencies, organisations or individuals. Only items owned or controlled by the Commonwealth that have been meet the threshold for national heritage listing under the Environmental Protection and Biodiversity Conservation Act 1999 (EPBC Act) are listed on the Commonwealth Heritage List (CHL) and afforded protection under the EPBC Act.</p>	Not relevant as no NHL, CHL or WHL items
<i>National Parks and Wildlife Act 1974</i>	<p>The relevance of this Act is firstly in respect to the protection and preservation of aboriginal artefacts. Discovery of material on site suspected as being of aboriginal origin must be reported and protected pending assessment and direction by the Client's Representative.</p> <p>Secondly it is an offence under Part 8A of this Act to pick or harm threatened species. (Refer to the notes under the Threatened Species Conservation Act for more information)</p>	<p>Potential for Aboriginal Heritage Items has been identified within the construction area. An Aboriginal heritage impact permit under section 90 of the <i>National Parks and Wildlife Act 1974</i> is not required for works approved under Part 5.1 of the EP&amp;A Act.</p> <p>Management of Aboriginal heritage is outlined in Section 3.1.</p>
<i>Heritage Act 1977</i>	<p>This Act provides for the preservation and conservation of heritage items such as building, works, relic, places of historic interest, scientific, cultural, social, archaeological, architectural, natural or aesthetic significance.</p> <p>It is an offence under this Act to wilfully and knowingly damage or destroy items of heritage value.</p> <p>Do not demolish damage, move or develop around any place, building, work, relic, moveable object, precinct, or land that is the subject of an interim heritage order or listing on the State Heritage Register or heritage listing in a Local Environmental Plan without an approval from the Heritage Council (NSW) or local council.</p>	<p>Heritage Items are identified on the site and addressed as part of the CoA. An approval under Part 4, or an excavation permit under section 139, of the <i>Heritage Act 1977</i> is not required for works approved under Part 5.1 of the EP&amp;A Act.</p> <p>Management of non-Aboriginal heritage is outlined in Section 3.2.</p>

*Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Cwth)*

This Act provides for the preservation and protection from injury or desecration to areas and objects of particular significance to Aboriginals. Areas and objects can be protected by Ministerial Declaration and it is then an offence to contravene such a declaration.

No areas or objects within the works site have been identified as being subject to such a declaration and this Act is of little relevance to the project.

## 2.1 Guidelines

Additional guidelines and standards relating to the management of Aboriginal and historic cultural heritage include:

- Code of Practice for the archaeological investigation of Aboriginal objects in NSW (OEH 2010)
- Aboriginal cultural heritage consultation requirements for proponents 2010 (OEH 2010)
- Due Diligence Code of practice for protection of Aboriginal objects in NSW (OEH 2010)
- Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW
- Guide to Aboriginal Heritage Impact Permit processes and decision making
- Assessing Heritage Significance (NSW Heritage Office 2001)
- Levels of Heritage Significance (NSW Heritage Office 2008)
- Assessing Significance for Historical Archaeological Sites and Relics (NSW Heritage Branch, Department of Planning 2009)
- Investigating Heritage Significance (NSW Heritage Office 2001)
- NSW Government's Aboriginal Participation in Construction Guidelines (2007).
- How to Prepare Archival Recording of Heritage Items (Heritage Branch 1998).
- Photographic Recording of Heritage Items Using Film or Digital Capture (Heritage Branch 2006).

### 3. Existing Environment

The SYAB site has been divided into four zones of works, which are described below (Figure 1-2).

- Zone RS: Regent Street. This zone consists of five existing late nineteenth century terrace houses on the eastern side of Regent Street in Chippendale. The area comprises Lots 1 - 10 DP 224852; Lot 1 DP76176; Lot 1 DP100281; and Lot 10 DP512094.
- Zone MS: Mortuary Siding. This zone currently consists of rail sidings and a vehicle access route, located directly to the east of Mortuary Station. This area is located within the Central Station SHR curtilage.
- Zone C: Corridor. This zone currently consists of the Main Suburban Railway corridor, located within the Central Station Precinct, approximately 100 metres north of the Cleveland Street overbridge.
- Zone SY: Syd Yard. This zone is located in the Sydney Yard area of Central Station, between Platforms 15 and 16. This area is presently in use as a maintenance and laydown area for station operations.

The existing environment and heritage context of the SYAB Project site has been assessed in the following background reports prepared to support the Environmental Impact Statement (EIS) for the Project:

- Sydney Metro City and Southwest – Chatswood to Sydenham: Aboriginal Heritage Archaeological Assessment, prepared by Artefact Heritage (2016a)
- Sydney Metro City and Southwest – Chatswood to Sydenham: Non-Aboriginal Heritage Impact Assessment, prepared by Artefact Heritage (2016b).

Additional reports which have been prepared for the project which have been used to support this management plan also include:

- Sydney Metro City and Southwest – Chatswood to Sydenham Historical Archaeological Assessment and Research Design by Artefact Heritage (2016c)
- Sydney Metro City and Southwest: Additional Heritage Impact Assessment for Mortuary Station by Artefact Heritage (2016d).
- Sydney Metro City and Southwest – Chatswood to Sydenham: Aboriginal Cultural Heritage Assessment Report (CHAR), prepared by Artefact Heritage (2016e)

These reports have been referenced to inform this management plan.

#### 3.1 Aboriginal Heritage

Artefact Heritage (2016a) undertook a heritage assessment of the Sydney Metro City and Southwest project works (including the Sydney Yard Access Bridge Project site). No previously registered Aboriginal sites were located within the project area at Central Station. Two AHIMS sites were identified approximately 600 metres to the north-west of the Sydney Yard Access Bridge site. These sites would not be impacted by the proposed works.

An assessment of Aboriginal archaeological potential at the Central Station site reported that:

*The survivability of Aboriginal archaeological deposit on sites in inner Sydney depends largely on the extent and nature of subsequent phases of historical construction activities. Geotechnical information is available for the area around the proposed station box and not for Regent Street.*

*Geotechnical information indicates that an intact Quaternary sand layer is present beneath overlying layers of fill and disturbance in the vicinity of Platforms 14 and 15. This information*

*indicates potential for significant intact sand deposits beneath those portions of the Central Station site.*

*Information relating to the survivability of natural ground surface beneath the Regent Street portion of the Central Station site is unknown (Artefact Heritage 2016a: 86).*

The archaeological significance of any potential intact Aboriginal archaeological deposits has been described as high, due to the rarity of Aboriginal sites in the local area. Out of context Aboriginal artefacts which may be present in fill however would not be considered to be of high archaeological significance (Artefact Heritage 2016a: 87).

Previous Aboriginal archaeological excavations in the local area have identified Aboriginal artefacts in historical contexts where nineteenth or early twentieth century structures have been present. Historical buildings from these periods do not often involve significant ground disturbance during their construction. As such, historical archaeological remains from these periods often lie over original and intact pre-European ground surfaces, where Aboriginal archaeological resources may reside.

Geotechnical information derived from the vicinity of Platforms 14 and 15 indicated the possibility of intact Quaternary sand layers, which may be artefact bearing. This Quaternary sand layer was identified directly to the west of Zone SY in the current project area.

Existing properties on Regent Street were constructed in the late nineteenth century, following the removal of the original Wesleyan Chapel on the site. Footings for 1880s terrace buildings and the original Wesleyan Chapel would not have likely entirely disturbed earlier ground surfaces and any potential sand sheet deposits which may have underlain these buildings.

Zone RS, Zone MS and Zone SY may have intact original sand deposits below the present ground surface. The precise location and intactness of any potential deposit is unknown. Should intact sand deposits be identified in these areas, further Aboriginal archaeological investigation may be required.

A Cultural Heritage Assessment Report (CHAR) was prepared by Artefact Heritage (2016e) as part of the PIR which was included in the submission for approval.

Comprehensive Aboriginal consultation was undertaken as part of the preparation of the CHAR, including an Aboriginal Focus Group (AFG) meeting.

The CHAR outlined an archaeological management and response methodology for test and salvage excavation. The CHAR also addressed the relationship between this methodology and non-Aboriginal archaeological management.

All RAPs who responded through consultation were in support of the proposed archaeological management methodology.

### 3.2 Non-Aboriginal Heritage

The Sydney Yard Access Bridge Project site is located within the curtilage of one heritage item, the Sydney Terminal and Central Railway Stations Group State Heritage Register curtilage (SHR# 01255). The project site is also located directly adjacent to two other heritage items. These heritage items and their registered listings are shown in **Table 3-1** below.

**Table 3-1 Heritage Listed Items in and near the Project Area**

Item	Listings	Significance	Location
Central Station	<ul style="list-style-type: none"> <li>Sydney Terminal and Central Stations Group (SHR# 01255)</li> <li>Central Railway Station Group (City of Sydney LEP 2012 I 824)</li> <li>Central Railway Station and Sydney Terminal Group (RailCorp Section 170 Register, SHI# 4801296)</li> </ul>	State	Zone MS, Zone C, Zone SY
Mortuary Station	<ul style="list-style-type: none"> <li>Mortuary Railway Station (SHR# 00157)</li> <li>Mortuary Railway Station (City of Sydney LEP 2012 I 194)</li> <li>Mortuary Railway Station and Gardens (RailCorp Section 170 Register, SHI# 4803219)</li> </ul>	State	Directly to the west of Zone MS
Co-Masonic Temple	<ul style="list-style-type: none"> <li>Former Co-masonic Temple Including Interior (City of Sydney LEP 2012 I 195)</li> </ul>	Local	Directly to the north of Zone RS

#### 3.2.1 Historic Context

An overview of the historic context of the site is provided in Artefact 2016b and Artefact 2016c.

#### 3.2.2 Existing Non-Aboriginal Heritage Values of the Sydney Terminal and Central Stations Group State Significant Item

The project area is located within the curtilage of the Sydney Terminal and Central Stations Group, listed on the State Heritage Register as SHR# 01255. This item is of State significance because of its central role in the development of rail transport and the economy of New South Wales since the mid-nineteenth century. The item includes the terminals, platforms, subways, outbuildings, rail lines and rail infrastructure of the entire Central Station precinct.

The construction of the Sydney Yards Access Bridge and access way within the Sydney Yard would result in minor visual impacts to the Sydney Terminal and Central Railway Stations Group as a whole. The bridge would be around 250 m to the south of the station itself so views from the platforms or station buildings would not be subject to major changes. Although there would be some visual impacts to views from passing trains, they would be in the context of the Sydney Yards as a functioning railway corridor with many visual elements.

The adaption of a portion of the Sydney Yards for a worksite is likely to result in a moderate impact. Currently this land is mostly vacant. The yards undergo continual modification and reconfiguration, reflecting ongoing upgrades to rail technology and the requirements of a working rail station, and the temporary use of this area for the project would represent the ongoing adaptation of an industrial railway landscape.

There is a moderate possibility of impact archaeological resources in Sydney Yard relating to earlier phases of Central Station. These are further discussed in Section 3.2.5.

#### 3.2.3 Existing Non-Aboriginal Heritage Values of the Mortuary Railway Station and Gardens

The proposed works are located directly to the east of the Mortuary Railway Station and Gardens, listed on the State Heritage Register as SHR# 00157. This item is of State significance as a physical reminder of



nineteenth century funerary customs and its unique Gothic architectural style. The item consists of the Mortuary Station building, rail sidings, fences and surrounding landscaping elements.

The establishment of the Sydney Yard Access Bridge construction sites, and the construction of crane pads immediately east of the former station to facilitate construction of the Sydney Yard Access Bridge would result in major temporary visual impacts through the introduction of a number of 50/60-metre-high cranes to be used during construction (a period of around 7 months). The cranes and Sydney Yard Access Bridge construction site would limit views to the east and southeast, although they would be in keeping with the character of the working rail corridor and work site.

The bridge, when finished, would impact views and vistas towards Mortuary Station from Regent Street and views from within the station group to Mortuary Station, including views from passing trains. Views from Mortuary Station into Sydney Yard would be significantly impacted. The bridge would significantly detract from the setting of the heritage item. Although the Sydney Yard is visually cluttered with overhead wiring, signage, signalling and other infrastructure, the construction of the bridge would constitute a major intrusive element which, due to its bulk and length would impact a number of key sightlines and the setting of Mortuary Station in general.

Excavation works for the crane pad may result in minor vibration impacts to the item. Vibration would not be above the vibration screening level for cosmetic damage. Potential vibration impacts to surrounding structures and receivers, including Mortuary Station and the Co Masonic, have been assessed in Section 5 of the Sydney Yard Access Bridge Construction Noise and Vibration Management Plan.

The historic and social significance of the item at State level would not be impacted. Impacts would primarily be in relation to views and setting, although there would be some visual connection lost with the working Sydney Yard which would have a minor impact on historical significance.

#### 3.2.4 Existing Non-Aboriginal Heritage Values of the Co-Masonic Temple (Including Interior)

The proposed works are located directly to the south of the former Co-Masonic Temple, listed on the City of Sydney LEP 2012 as I 195. This item is of local significance as the former Sydney headquarters of the Co-Masonic movement and for its earlier physical connection to the Wesleyan churches that once occupied the site. This item consists of a two-storey Federation designed building fronting Regent Street, with a late twentieth century and heritage unsympathetic rear addition.

The construction of the SYAB to provide access during and following construction of the project, would be elevated to the east of the heritage item, connecting Regent Street to the construction worksite within the Sydney Yard. This is likely to cause moderate to major impacts on views and vistas towards the Co-Masonic Temple from Regent Street and has the potential to significantly detract from the setting of the heritage item.

#### 3.2.5 Areas of Archaeological Potential within the SYAB Development Site

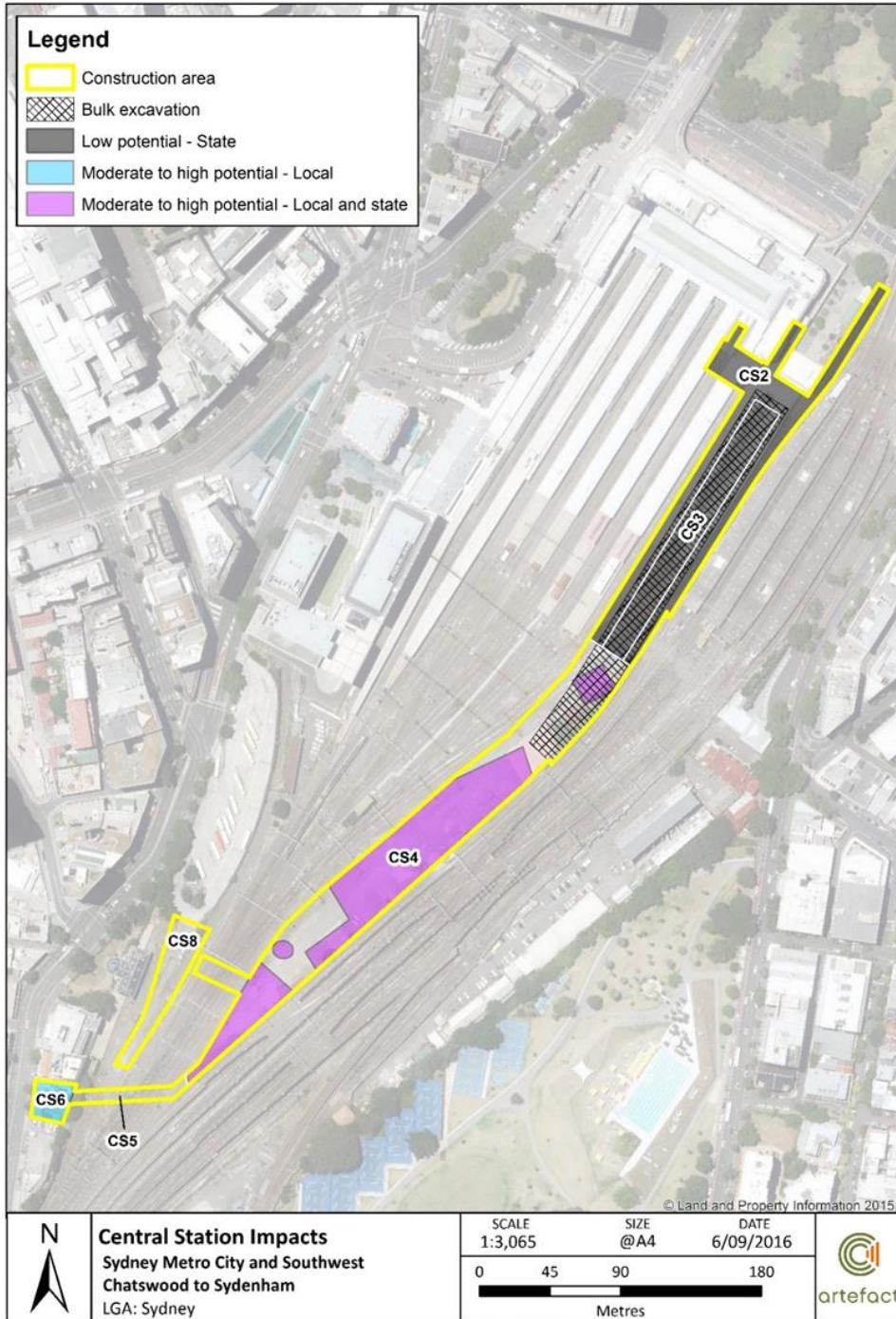
Artefact Heritage (2016b and 2016c) have identified several areas of historic heritage archaeological potential, as shown in **Figure 3.1**.

Within the Central Station precinct, historic heritage archaeological resources relating to the first and second stations (1855 and 1874) have the potential to remain. Variable levels of ground disturbance have likely impacted these archaeological remains to an uncertain extent.

In Zone RS, a Wesleyan chapel was constructed in 1847, converted into a school and hall in 1867, and deliberately dismantled in 1898. While building materials from this chapel were recycled for the construction of the nearby Co-Masonic Lodge, it is likely that remnants of the former building footings and associated archaeological deposits would remain. In addition, outbuildings and privies were located in Zone RS, and deeper archaeological deposits associated with these buildings would have good research potential.

Archaeological resources relating to the former Wesleyan chapel would likely meet the threshold for local significance.

**Figure 3-1 Recorded areas of archaeological potential across entire Central Station site (Artefact Heritage 2016c)**



### 3.3 Non-Aboriginal Archaeological Management

The AARD divided all Metro station and construction sites into archaeological management zones based on archaeological potential and construction impacts as submitted with the EIS.

Archaeological management zone mapping is based on a 'traffic light' coding:

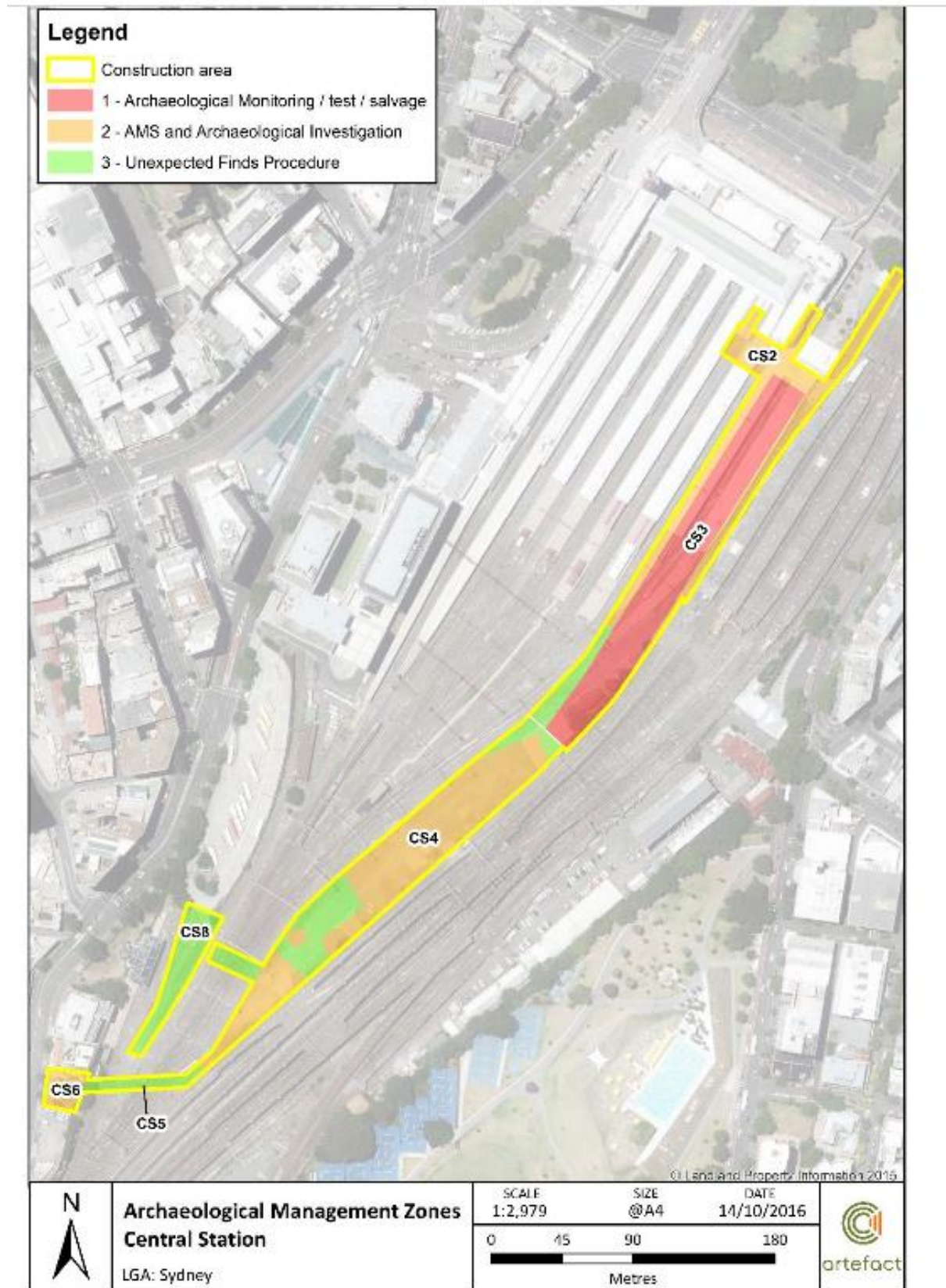
- **Red** (Zone 1): Direct impact to significant archaeology. Archaeological investigation required prior to any construction impacts (bulk excavation etc.)
- **Amber** (Zone 2): Potential impact to significant archaeology. Prepare Work Stage Specific Archaeological Method Statement (AMS) once construction methodology and impacts are known. Archaeological investigation is likely required
- **Green** (Zone 3): Unlikely to contain significant archaeology. Construction to proceed with unexpected finds procedure as nil-low potential for significant archaeological remains.

**Table 3-2 Archaeological Management zoning relating to SYAB (Artefact Heritage 2016c).**

Site Code	Potential archaeology	Impact	Management zone	Mitigation
CS 4	Moderate-High potential for rail-related remains from 1850s-1900s Local / State	Direct impact –bulk excavation northern CS 4 Potential direct impacts – ground works, piling	1 / 2	<ul style="list-style-type: none"> <li>• AMS</li> <li>• Test/Salvage CS 4 north</li> <li>• Monitoring / Salvage if required CS 4</li> </ul>
CS 6	Moderate-High potential for remains of the Wesleyan chapel and school constructed in 1847	Potential direct impact – ground works, footing excavation, piling	2	<ul style="list-style-type: none"> <li>• AMS</li> <li>• Monitoring / Salvage if required</li> </ul>
CS 5 CS 7 CS 8	Low potential for isolated rail remains, early-mid 20 <sup>th</sup> century remains. Unlikely to meet significance threshold	Potential direct impact – ground works, excavation, piling etc	3	<ul style="list-style-type: none"> <li>• Unexpected Finds Procedure</li> </ul>



Figure 3-2 Archaeological Management zoning for Central Station (Artefact Heritage 2016c)



### 3.4 Excavation Directors

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 of Planning and Environment and the Heritage Division of the Office of Environment and Heritage.

The nominated Excavation Directors are Dr Iain Stuart and Jenny Winnett, with Duncan Jones as site supervisor. The Excavation Directors would have input into any AMS for areas where local or State significant archaeology are to be impacted.

### 3.5 Construction Risk Assessment

Impacts directly related to SYAB construction are described in **Table 3-3**, **Table 3-44** and the aspects and impacts register in the CEMP. Management measures to address these identified risks are included in Section 4.

**Table 3-3 Aboriginal Heritage – Aspects, Impacts and Risks**

Activity	Aspect/s	Impact/s
Demolition of the extant terraces on Regent Street	Excavation, vibration	Finding/disturbance to and/or destruction of unexpected burials, human remains or other Aboriginal objects.
Construction of the SYAB and approaches	Excavation, piling, cutting and filling	Finding/disturbance to and/or destruction of unexpected burials, human remains or other Aboriginal objects.
Construction and use of compound sites and laydown areas	Excavation, vibration, cutting and filling, construction of buildings	Finding/disturbance to and/or destruction of unexpected burials, human remains or other Aboriginal objects.
Utilities and drainage works	Excavation, vibration and soil compaction due to the use of heavy machinery, cutting and filling, installation of fencing.	Finding/disturbance to and/or destruction of unexpected burials, human remains or other Aboriginal objects.
Construction of Yard Access Road and Sydney Yard landing slab	Excavation, vibration and soil compaction due to use of heavy machinery, cutting and filling.	Finding/disturbance to and/or destruction of unexpected burials, human remains or other Aboriginal objects.
Adjustments to track, signalling, security and signage as a result of SYAB construction	Excavation, vibration and soil compaction due to the use of heavy machinery, cutting and filling, installation of fencing	Finding/disturbance to and/or destruction of unexpected burials, human remains or other Aboriginal objects.
Installation of drainage lines and extension of utilities services	Excavation, vibration and soil compaction due to the use of heavy machinery, cutting and filling, installation of fencing	Finding/disturbance to and/or destruction of unexpected burials, human remains or other Aboriginal objects.
Temporary works		Impacts unlikely



**Table 3-4 Non-Aboriginal Heritage – Aspects, Impacts and Risks**

Activity	Aspect/s	Impact/s
Demolition of the extant terraces on Regent Street	Excavation, vibration	Destruction of locally significant non-Aboriginal archaeological deposits below terrace footprint. Visual impacts to Mortuary Station
Construction of the SYAB and approaches	Excavation, piling, cutting and filling	Disturbance to and/or destruction of non-Aboriginal archaeological deposits of local or State significance associated with former phases of Central Station. Visual impacts to Mortuary Station
Construction and use of compound sites and laydown areas	Excavation, vibration, cutting and filling, construction of buildings	Disturbance to and/or destruction of non-Aboriginal archaeological deposits of local or State significance associated with former phases of Central Station. Visual impacts to Mortuary Station
Utilities and drainage works	Excavation, vibration and soil compaction due to the use of heavy machinery, cutting and filling, installation of fencing.	Disturbance to and/or destruction of non-Aboriginal archaeological deposits of local or State significance associated with former phases of Central Station.
Construction of Yard Access Road and Sydney Yard landing slab	Excavation, vibration and soil compaction due to use of heavy machinery, cutting and filling.	Disturbance to and/or destruction of non-Aboriginal archaeological deposits of local or State significance associated with former phases of Central Station or the Wesleyan Church. Visual impacts to Mortuary Station
Adjustments to track, signalling, security and signage as a result of SYAB construction	Excavation, vibration and soil compaction due to the use of heavy machinery, cutting and filling, installation of fencing	Disturbance to and/or destruction of non-Aboriginal archaeological deposits of local or State significance associated with former phases of Central Station..
Installation of drainage lines and extension of utilities services	Excavation, vibration and soil compaction due to the use of heavy machinery, cutting and filling, installation of fencing	Disturbance to and/or destruction of non-Aboriginal archaeological deposits of local or State significance associated with former phases of Central Station.
Temporary works	Pedestrian control, installation of hoarding and other temporary works	Disturbance to and/or destruction of non-Aboriginal archaeological deposits of local or State significance associated with former phases of Central Station. Visual impacts to Mortuary Station

## 4. Management Measures

This Section describes the overall approach and principles associated with managing and mitigating Aboriginal and non-Aboriginal cultural heritage risks during the Project Construction. The management measures are based on the mitigation measures compiled from the relevant requirements of the Project Approval (EIS, Submissions Report and Minister's Conditions of Approval (CoA)) as well as the requirements and standards of Laing O'Rourke.

The actions that Laing O'Rourke undertakes to fulfil the consent conditions are summarised in **Table 4-1** and **Table 4-2**. These actions have been categorised into:

- Monitoring;
- Management; and
- Incident Response.

Table 4-1 Construction, Management Action and Responsibilities, Aboriginal Heritage

Action	Trigger/Timing	Responsibility	Description of Action
<b>Monitoring</b>			
The Environment Manager will undertake weekly inspections and monitoring of construction activities to ensure compliance with the requirements of the CoA and this plan.	Weekly during construction	Environmental Manager	<ul style="list-style-type: none"> <li>Undertake weekly inspections and monitoring of construction activities to ensure compliance with the requirements of CoAs and this plan</li> </ul>
Daily inspections of controls will be undertaken by Supervisors during works.	Daily during Construction	Site Supervisors	<ul style="list-style-type: none"> <li>Complete daily inspections of the controls during works</li> </ul>
<b>Management</b>			
Stage 1 (test) and Stage 2 (salvage) excavations	Construction	Environmental Manager Heritage Specialist	<ul style="list-style-type: none"> <li>Where there is a notification by the Historical Excavation Director (Historical ED) that potential intact soil profiles, or Aboriginal objects, have been identified during historical archaeological investigations, and where this is confirmed by the Aboriginal archaeological Excavation Director (Aboriginal archaeological ED), or in the case on an unexpected find of an Aboriginal object, Stage 1 archaeological salvage excavation (testing) will be required (CHAR pg 44).</li> <li>Stage 2 (salvage) excavation may be required if there is: <ul style="list-style-type: none"> <li>- Identification of Aboriginal artefact(s) during Stage 1 excavation.</li> <li>- Identification of rare or significant artefacts, features or site type.</li> <li>- Identification by the Aboriginal archaeological ED of Aboriginal artefacts in contexts that may provide significant information on site formation, including the potential extracting samples suitable for dating.</li> </ul> </li> <li>An Archaeological Method Statement (AMS) in accordance with the excavation methodology outlined in the CHAR (Stage 1 and Stage 2) would be prepared prior to archaeological excavation commencing.</li> <li>Follow the methodology outlined in the AMS including reporting obligations and management of finds</li> <li>Where Aboriginal objects are located in historical archaeological contexts, Stage 1 excavation would form part of the historical archaeology program, and the excavation methodology would be guided by the Archaeological Research Design (ARD) prepared for that worksite. RAPs would be involved in excavation of identified</li> </ul>

Action	Trigger/Timing	Responsibility	Description of Action
			<ul style="list-style-type: none"> <li>Aboriginal objects within historical archaeological contexts.</li> <li>Where historical archaeological contexts are encountered during controlled Stage 1 excavation, the Historical ED would be consulted on any requirements for an alteration to methodology to account for impacts to historical archaeological remains.</li> </ul>
Site clearance after archaeological management completed	Construction	Environmental Manager Heritage Specialist	<ul style="list-style-type: none"> <li>Site clearance would be required from the Aboriginal archaeological ED prior to construction commencing. This clearance would be in the form of a memo or email and would apply to a work specific area or the project sites as a whole, depending on stage of works.</li> </ul>
All relevant personnel and contractors involved in the design and construction of the Project must be advised of the relevant heritage considerations, legislative requirements and commitments.	Pre-construction	Environmental Manager Heritage Specialist	<ul style="list-style-type: none"> <li>Ensure all personnel involved in earthworks or any type of disturbance are appropriately trained / inducted and made aware of the cultural significance of the area, including site identification and materials likely to be uncovered.</li> <li>Personnel will be instructed to notify the Environmental Manager in the event they identify any object which they believe to be of archaeological or cultural origin.</li> </ul>
Aboriginal stakeholder identification (RAPs) and contact details in case of unexpected finds.	Pre-construction	Environmental Manager	<ul style="list-style-type: none"> <li>Identify RAPs (Appendix B)</li> <li>Contact RAPs in accordance with the Unexpected Finds Protocol (Section 4.1 of this CHMP) in the case of unexpected finds of an Aboriginal object or potential Aboriginal human skeletal remains and/or Aboriginal burials.</li> <li>RAPs should be consulted prior to test or salvage excavation commencing in accordance with the project CHAR and should be given the opportunity to participate in any excavation works</li> </ul>
<b>Incident Response</b>			
Unexpected finds procedures for Aboriginal objects.	Identification of potential Aboriginal heritage artefacts or other sensitive cultural values.	Environmental Manager	<ul style="list-style-type: none"> <li>Following the discovery of new finds of Aboriginal objects – works will cease in the immediate area and the area secured.</li> <li>Assessment of the site/object and subsequent management of the site will be carried out in accordance with the protocols provided in Section 4.1 of this CHMP.</li> <li>In addition, the site will be recorded on standard AHIMS site cards and lodged with AHIMS.</li> <li>Upon completion of any unexpected finds reporting and required mitigation measures, post excavation reporting in accordance with the OEH Aboriginal requirements will be undertaken with 12 months of the completion of works. Post-excavation report to be prepared by the Aboriginal archaeologist in consultation with the RAPs.</li> </ul>
Unexpected finds procedures for	Identification of a	Environmental Manager	<ul style="list-style-type: none"> <li>Works will immediately cease in that area. No works to recommence until</li> </ul>

Action	Trigger/Timing	Responsibility	Description of Action
human skeletal remains.	potential burial or discovery of skeletal remains.		<p>clearance is provided by OEH and/or where appropriate the NSW Police as per the protocol outlined in Section 4.1 of this CHMP.</p> <ul style="list-style-type: none"> <li>The Sydney Metro Exhumation Policy will be enacted.</li> </ul>
Where impacts are identified outside the project area	New impact areas not previously surveyed	Environmental Manager	<ul style="list-style-type: none"> <li>Ensure that consistency assessments are undertaken for any new impact areas. Further consultation with RAPs would be required where a consistency assessment identifies additional impacts to Aboriginal heritage.</li> </ul>

**Table 4-2 SYAB Construction, Management Action and Responsibilities, Non-Aboriginal Heritage**

Action	Trigger/Timing	Responsibility	Description of Action
<b>Monitoring</b>			
The Environment Manager will undertake weekly inspections and monitoring of construction activities to ensure compliance with the requirements of the CoA and this plan.	Weekly during construction	Environmental Manager	<ul style="list-style-type: none"> <li>Undertake weekly inspections and monitoring of construction activities to ensure compliance with the requirements of CoAs and this plan</li> </ul>
Daily inspections of controls will be undertaken by Supervisors during works.	Daily during Construction	Site Supervisors	<ul style="list-style-type: none"> <li>Complete daily inspections of the controls during works</li> </ul>
Heritage interpretation	Pre-construction	Sydney Metro	<ul style="list-style-type: none"> <li>A Heritage Interpretation Plan would be prepared in accordance with condition E21. This plan would be prepared as part of, or would consider, the wider Sydney Metro Heritage Interpretation Plan.</li> </ul>
Vibration monitoring	Construction	Environmental Manager	<ul style="list-style-type: none"> <li>Vibration monitoring will be undertaken in accordance with the Construction Noise and Vibration Management sub-plan.</li> </ul>
<b>Management</b>			
Design requirements	Pre-construction and construction	Environmental Manager Heritage Architect	<ul style="list-style-type: none"> <li>All SYAB design works will be reviewed by an appropriately qualified heritage architect and the project independent design review panel.</li> </ul>
Management of indirect impacts to Mortuary Station	Pre-construction and construction	Environmental Manager	<ul style="list-style-type: none"> <li>An exclusion zone would be set up to protect the curtilage of Mortuary Station.</li> <li>Monitor vibration impacts as required</li> </ul>
Management of indirect impacts to elements of Central Station Railway Group	Pre-construction and construction	Environmental Manager	<ul style="list-style-type: none"> <li>Provide mapping designating significant elements of Central Station (such as the Shunters Hut) which have not been approved for impact. Where necessary an exclusion zone would be set up.</li> <li>Monitor vibration impacts as required</li> </ul>

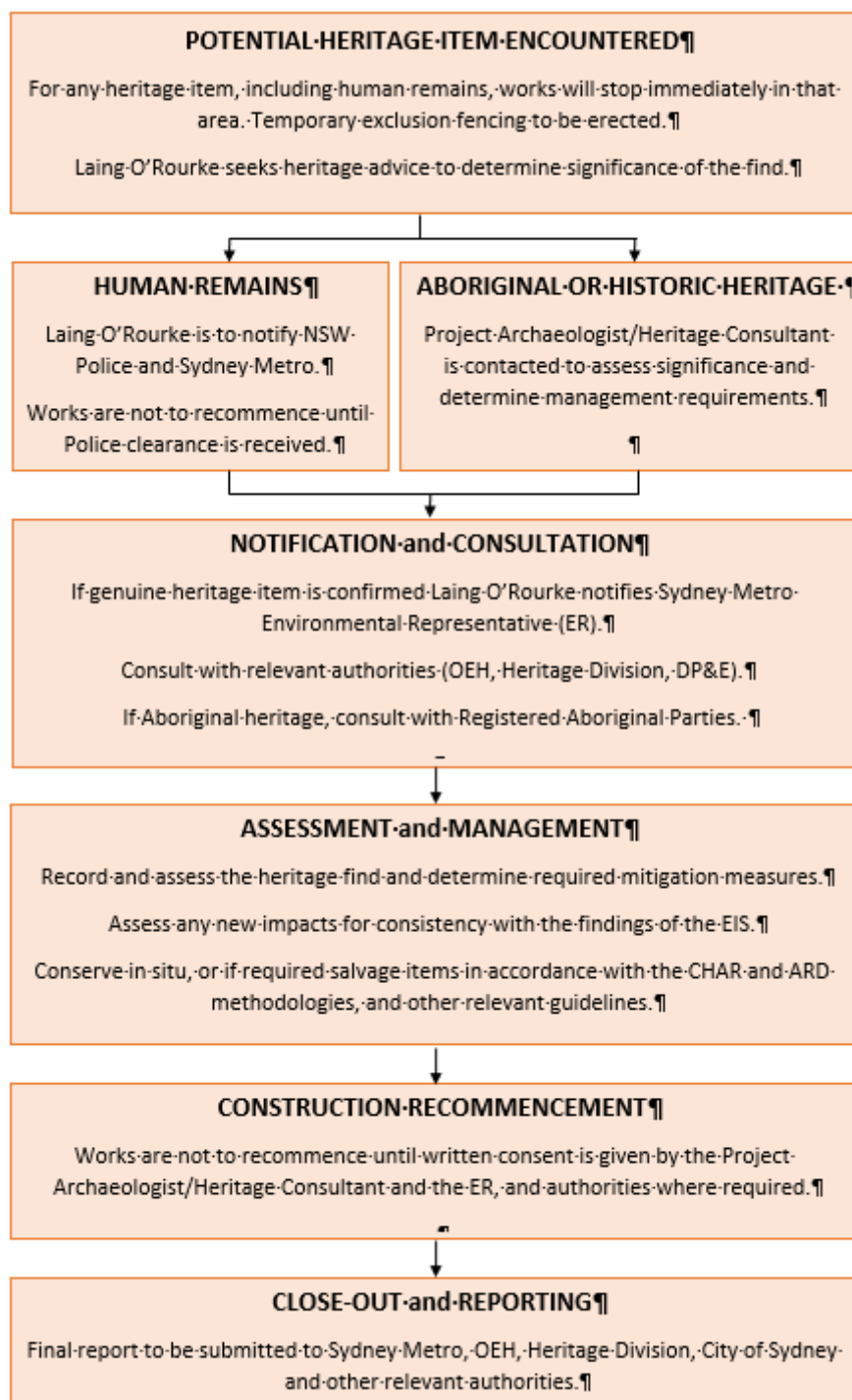


Action	Trigger/Timing	Responsibility	Description of Action
Nomination of an Excavation Director	Pre-construction	Environmental Manager Heritage Specialist	<ul style="list-style-type: none"> <li>Before excavation of archaeological management sites, a qualified Excavation Director (ED) would be nominated who complies with the Heritage Council of NSW's Criteria for Assessment of Excavation Directors (July 2011) in accordance with E18. DPE and OEH shall be advised of the nominated ED. Depending on potential impacts identified in the Archaeological Method Statement (AMS), there may be need for two EDs; Historical ED and Aboriginal archaeological ED.</li> </ul>
Archaeological management	Construction	Environmental Manager Heritage Specialist	<ul style="list-style-type: none"> <li>Non-Aboriginal archaeological management is to be undertaken in accordance with the AARD. The AARD includes management zoning for all Sydney Metro South and Southwest construction sites. Zoning for the SYAB construction area is shown in <b>Figure 3-1</b>.</li> <li>An Archaeological Method Statement (AMS) would be prepared prior to any subsurface works commencing within CS4 and CS6 (any areas coded orange in the SYAB area).</li> <li>Due to the depth of excavation across the entirety of Zone RS, archaeological excavation would be required at the location of the terrace houses on Regent Street following demolition of those houses. The removal of the base slab of buildings in Zone RS will need to be archaeologically monitored, followed by archaeological testing and open area excavation. The AARD identified Moderate-High potential for locally significant remains of the Wesleyan chapel and school constructed in 1847 in Zone RS (shaded orange in <b>Figure 3-1</b>).</li> <li>An ED who fulfills the criteria for excavations of locally significant archaeology would be nominated for these works.</li> <li>Depending on impacts, archaeological monitoring or archaeological excavation would be required for the section of the SYAB construction area that has been identified as having moderate-high potential for remains of the first station (shaded orange in <b>Figure 3-1</b>). These remains may be of local or State significance. For any remains of potential State significance an ED who meets the criteria to manage State significant archaeology would be nominated.</li> <li>In areas identified by the AARD as being managed under the unexpected find procedure (shaded green in <b>Figure 3-1</b>), no archaeological management is required unless unexpected finds are identified during construction.</li> </ul>

Action	Trigger/Timing	Responsibility	Description of Action
Notification and management of relics	Construction	Sydney Metro Heritage Specialist	<ul style="list-style-type: none"> <li>If any potential relics are located the ED would assess significance of the find and provide advice.</li> <li>An Archaeological Relic Management Plan (ARMP) would be prepared and provided to Heritage Division.</li> <li>Construction in the location of the relics cannot commence until the recommendations of the ARMP have been implemented.</li> <li>If relics are located the Heritage Division and Secretary DPE would be notified after assessment by the ED.</li> </ul>
Archaeological reporting	Construction	Environmental Manager Heritage Specialist	<ul style="list-style-type: none"> <li>Archaeological reporting and find management would be undertaken in accordance with the AARD.</li> </ul>
Archival recording	Pre-construction	Sydney Metro	<ul style="list-style-type: none"> <li>A photographic archival record would be prepared of views from Mortuary Station before construction of the Sydney Yard Access Bridge in accordance with condition E13. This would record the setting and context of Mortuary Station prior to any visual impact as a result of the construction of the SYAB.</li> <li>An external photographic record of all buildings to be demolished (Regent St terraces) would be prepared in accordance with condition E14.</li> </ul>
Heritage Inductions	Ongoing	Environmental Manager	<ul style="list-style-type: none"> <li>All site personnel shall undergo site specific induction training, which will include environmental awareness and heritage management training. Toolbox meetings will also be undertaken as and when required; covering specific environmental issues and heritage control measures as identified in this CHMP.</li> <li>Personnel directly involved in implementing heritage control measures on site will be given specific training in the various measures to be implemented.</li> <li>Records of all training are to be filed in accordance with the project filing system.</li> </ul>
<b>Incident Response</b>			
Unexpected finds procedure for non-Aboriginal artefacts and relics.	During construction	Environmental Manager	<ul style="list-style-type: none"> <li>If unexpected finds are located during works the Unexpected Finds Procedure would be followed. Further archaeological work or recording may be recommended.</li> </ul>

#### 4.1 Unexpected Finds Procedure

If any potential significant archaeological remains or Aboriginal heritage objects, as protected under NSW legislation, are uncovered during the works, then the following steps should be followed (as adapted from the AARD in accordance with condition E19):



## 4.2 Heritage Awareness Training

All relevant personnel and contractors involved in the SYAB Project will be advised of the relevant heritage considerations, legislative requirements and recommendations in the *Aboriginal Heritage Impact Assessment* (AHMS 2015).

Cultural awareness training will be undertaken for all personnel involved with ground disturbing activities for the Project will include the following:

- information on the Aboriginal archaeological and cultural heritage values of the Project area;
- outline the location and type of archaeological sites within the Project Area and give instructions not to disturb these sites;
- provide clear information about statutory obligations for heritage NSW National Parks and Wildlife Act 1974 (NP&W Act). It is important to note that failure to report a discovery and those responsible for the damage or destruction occasioned by unauthorised removal or alteration to a site or to archaeological material may be prosecuted under the NPW Act (as amended).
- how to identify stone artefacts and other Aboriginal heritage sites
- stop works and reporting protocols for discovery of previously unknown heritage and archaeological items;
- all relevant personnel and contractors involved in the SYAB Project will be advised of the relevant heritage considerations, legislative requirements and recommendations in the Non-Aboriginal Heritage Impact Assessment (Artefact Heritage 2012; 2015).
- all personnel involved with ground disturbing activities are made aware of their obligations to avoid any impacts to non-Aboriginal heritage under the Heritage Act 1977; and
- this will include information on historic heritage sites and 'relics' and information about statutory obligations under the *NSW Heritage Act 1977*.

All training and tool box meetings will be recorded. All project documentation, including environmental compliance and training records, will be kept as objective evidence of compliance with environmental requirements.

### 4.3 Ongoing Notifications

The following protocol will be followed with respect to ongoing notifications.

- For unexpected Aboriginal archaeological finds, RAPs will be notified immediately.
- Notification to the RAPs will occur within 1 week where changes to the Project are identified that may have implications for Aboriginal heritage management (such as changes in design).
- Feedback requested from the RAPs should be received within two weeks and no later than four weeks from the date correspondence is issued
- The appropriate address and format for responses shall be provided as part of the request. Where no response is issued within this timeframe, a follow-up phone call will be made by the Environmental Manager (or project Heritage Specialist) to close out the outstanding request.
- All notification and consultation records will be kept by Laing O'Rourke and its relevant consultants.

## 5. Roles and Responsibilities

Relevant roles and responsibilities associated with this CHMP are presented in **Table 5-1**. All personnel are responsible for ensuring that the clearing limits are addressed and heritage items are protected.

It is important to note that failure to report a discovery and those responsible for the damage or destruction occasioned by unauthorised removal or alteration to a site or to archaeological material may be prosecuted under the NPW Act (as amended).

**Table 5-1 Roles and Responsibilities**

ROLES	RESPONSIBILITIES
Department of Planning and Environment	Approval of the Heritage Management Plan Monitor LOR compliance with the Heritage Management Plan
Project Leader	Ensure that sufficient resources are allocated for the implementation of this CHMP Ensure that the CEMP covers the management and mitigation measures presented in this CHMP Ensure that the outcomes of the visual checks/ compliance construction monitoring/ incident reporting are systematically evaluated as part of ongoing management of construction activities Ensure audits of construction site records/ monitoring records/ incident reports are undertaken with findings are shared with relevant site personnel and corrective actions are implemented Authorise all monitoring reports and any revisions to this CHMP
Environment Manager	Oversee the overall implementation of this CHMP Ensure all relevant personnel have and understand the most up-to-date copy of this CHMP Ensure that any required actions arising from the detection of unexpected heritage items or if works are required outside of the approved development footprint are reported to the relevant personnel for further action and ensure that the actions are effectively implemented Ensure all monitoring reporting requirements are met and maintained on site
Construction supervisors Subcontractors	Understand and implement mitigation protocols as required in the CHMP and any other required measures during construction Undertake relevant training to implement the requirements of this CHMP All personnel are responsible for ensuring that heritage items are protected. All site personnel to undertake toolbox talks in relation to the reporting process for unexpected finds.
Environmental Representative	Receive and respond to communications from the Secretary in relation to the environmental performance of the Critical State Significant Infrastructure (CSSI); Consider and inform the Secretary on matters specified in the terms of the planning approval; Consider and recommend any improvements that may be made to work practices



ROLES	RESPONSIBILITIES
	<p>to avoid or minimise adverse impact to the environment and to the community;</p> <p>Review all documents required to be prepared under the terms of the planning approval, ensure they address any requirements in or under the planning approval and if so, endorse them before submission to the Secretary (if required to be submitted to the Secretary) or before implementation (if not required to be submitted to the Secretary);</p> <p>Regularly monitor the implementation of all documents required by the terms of the planning approval for implementation in accordance with what is stated in the document and the terms of the planning approval;</p> <p>Notify the Secretary of an incident in accordance with Condition A41 of the planning approval;</p> <p>As may be requested by the Secretary, help plan, attend or undertake Department audits of the CSSI, briefings, and site visits;</p> <p>If conflict arises between the Proponent and the community in relation to the environmental performance of the CSSI, follow the procedure in the Community Communication Strategy approved under Condition B3 of the planning approval to attempt to resolve the conflict, and if it cannot be resolved, notify the Secretary;</p> <p>Review any draft consistency assessment that may be carried out by the Proponent, and provide advice on any additional mitigation measures required to minimise the impact of the work;</p> <p>Consider any minor amendments to be made to the CEMP, CEMP sub-plans and monitoring programs that comprise updating or are of an administrative nature, and are consistent with the terms of the planning approval and the CEMP, CEMP sub-plans and monitoring programs approved by the Secretary and, if satisfied such amendment is necessary, approve the amendment. This does not include any modifications to the terms of the planning approval;</p> <p>Assess the impacts of minor ancillary facilities as required by Condition A18 of the planning approval; and prepare and submit to the Secretary and other relevant regulatory agencies, for information, a monthly Environmental Representative Report detailing the ER's actions and decisions on matters for which the ER was responsible in the preceding month (or other timeframe agreed with the Secretary). The Environmental Representative Report must be submitted within seven (7) days following the end of each month for the duration of works and construction of the CSSI, or as otherwise agreed with the Secretary.</p>
Excavation Director	<p>The Excavation Director must be suitably qualified and who complies with the Heritage Council of NSW's <i>Criteria for Assessment of Excavation Directors</i> (July 2011) to oversee and advise on matters associated with historic archaeology and advise the DPE and OEH.</p> <p>The Excavation Director must be present to oversee excavation and advise on archaeological issues.</p> <p>The Excavation Director has the authority to advise on the duration and extent of oversight required as informed by the provisions of the approved AARD and Excavation Methodology.</p>
Heritage Specialist	<p>The Heritage Specialist will be responsible for providing advice to minimise potential impacts to any Aboriginal or historic heritage values that may be recorded during the construction activities.</p>

## 6. Monitoring, Auditing and Reporting

Monitoring, auditing and reporting will be undertaken in accordance with the CEMP, as well as additional requirements listed below.

The Environment Manager will undertake weekly inspections and monitoring of construction activities to ensure compliance with the requirements of the CoA and this plan.

The Weekly Environmental Inspection Checklist will be used to maintain compliance and effectiveness of controls.

Items that require action will be documented on the site environmental inspection. Items that require specific and detailed action will be recorded on the Project's Corrective Action Register. The Site Construction Manager will be responsible for providing appropriate resources in terms of labour, plant and equipment to enable the items to be rectified in the nominated timeframes.

Daily inspections of controls will be made by Supervisors and maintenance will be undertaken during active site works.

## 7. Review and Improvement

Continuous improvement of this plan will be achieved by the ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement. These ongoing evaluations would be conducted by Laing O'Rourke.

The continuous improvement process will be designed to:

- Identify areas of opportunity for improvement of environmental management and performance.
- Determine the cause or causes of non-conformances and deficiencies.
- Develop and implement a plan of corrective and preventative action to address any non-conformances and deficiencies.
- Verify the effectiveness of the corrective and preventative actions.
- Document any changes in procedures resulting from process improvement.
- Make comparisons with objectives.

Any revisions to the CHMP will be in accordance with the process outlined in Section 3.1 of the CEMP. A copy of the updated plan and changes will be distributed to all relevant stakeholders in accordance with the approved document control procedure.

## 8. Enquiries, Complaints and Incident Management

Environmental incidents and complaints are to be investigated, documented, actioned and closed out as per the details provided in the Community Consultation Strategy and Section 19 of the CEMP, including those related to Aboriginal and non-Aboriginal cultural heritage.

## Appendix A

### Stakeholder Consultation Feedback

Item No	Doc Rev	Item Description	Stakeholder	Date	Requirement Ref (COA or REMM)	Stakeholder comment	TfNSW/Contractor Response
1	2	Section 4	OEH Heritage Division - Heritage Delegate (HD) of NSW Heritage Council	11-Apr-2017	EIS/PIR Mitigation Measures	CHMP does not adequately reference REMMs	REMMs added to CHMP cover sheet
2	2	General	HD	11-Apr-2017	General	Provision of CEMP to Heritage Council/Division	Discussions held directly between OEH and TfNSW
3	2	cover letter	HD	11-Apr-2017	General	Table 6 referred to but missing from CHMP	Table was included in cover letter. Reference amended and clarified
4	2	Section 2	HD	11-Apr-2017	Legislative context	Error in description of Register of the National Estate	Reference removed as not required
5	2	Section 3.2.3	HD	11-Apr-2017	Noise and Vibration	Cross reference with the NVIA requested in regard to crane pad	CHMP amended to cross reference the SYAB CNVMP
6	2	Table 4-2	HD	11-Apr-2017	Typo	Table 4-2 error in condition reference (E20 should read E18)	Amended

Item No	Doc Rev	Item Description	Stakeholder	Date	Requirement Ref (COA or REMM)	Stakeholder comment	TfNSW/Contractor Response
7	2	General	City of Sydney Council	11-Apr-2017	General	The plan covers the Aboriginal and Non-aboriginal heritage impacts and issues related to the project. The analysis or impacts and risks and proposed management of works to minimise impacts is acceptable and complies with good current practice.	None required

## Appendix B

### Registered Aboriginal Parties (RAPs)

The list of registered Aboriginal stakeholders/Registered Aboriginal Parties (RAPs) and associated contact details for the Project area included below:

Stakeholder	CONTACT
Darug Land Observations	Gordon Workman – 02 9831 8868 Jamie Workman – 0420 591 138
Darren Duncan	Darren Duncan – 0410 510 397
Murri Bidgee Mullangari Aboriginal Corporation	Ryan Johnson – 0497 983 332
Tocomwall	Danny Franks – 02 9542 7714
Darug Aboriginal Cultural Heritage Assessments	Celestine Everingham – 02 9410 3665
Kamilaroi-Yankuntjatjara Working Group	Pollowan Phillip Khan – 0434 545 982
Woronora Plateau Gundangarra Elders Council	Kayla Williamson – 0414 438 744
Aboriginal Archaeology Service Inc	Anthony Williams – 0456 399 687
Gandangara Local Aboriginal Land Council	Brad Maybury – 02 9602 5280
Metropolitan Local Aboriginal Land Council	Nathan Moran – 02 8394 9666
Gundungurra Tribal Technical Services	Chris Payne – 0466 975 437 Peter Foster – 0432 590 289 David Bell – 0450 124 891
Aboriginal Heritage Office (North Sydney Council)	David Watts – 02 9976 1685
Tony Williams	Tony Williams – 0490 126 040
Bilinga Cultural Heritage Technical Services	Wandai Kirkbright bilinga@mirramajah.com
Gunyu Cultural Heritage Technical Services	Darlene Hoskins-McKenzie – 0413 078 011
Munyunga Cultural Heritage Technical Services	Robert Brown munyunga@mirramajah.com

Stakeholder	CONTACT
Murrumbul Cultural Heritage Technical Services	Levi McKenzie-Kirkbright murrumbul@mirramajah.com
Wingikara Cultural Heritage Technical Services	Suzanne McKenzie wingikara@mirramajah.com





artefact

4 July 2017

Chris McCallum  
Environmental Manager  
Laing O'Rourke  
74-76 Marlborough Road  
Homebush NSW

Dear Chris,

**RE: DRAFT Sydney Yard Access Bridge Aboriginal Consultation Memo**

## Background

The Sydney Yard Access Bridge (SYAB) project forms part of the Sydney Metro City & Southwest project. The SYAB is a new permanent road bridge that will provide a connection from Regent Street over the Mortuary Station line and intercity tracks into the Sydney Yard. In particular, the SYAB will extend from Regent Street over the Mortuary Station line and intercity tracks into the Sydney Yard.

## Aboriginal cultural heritage management

### Previous Aboriginal Consultation

Consultation with Local Aboriginal Land Councils and other registered Aboriginal stakeholders was undertaken during preparation of the Sydney Metro City & Southwest - Chatswood to Sydenham, Environmental Impact Statement (EIS). A list of Registered Aboriginal Parties (RAPs) was compiled for the project. A Cultural Heritage Assessment Report (CHAR) was prepared in consultation with the RAPs in accordance with the Office of Environment and Heritage's (OEH) guidelines 'Aboriginal cultural heritage consultation requirements for proponents 2010'. The CHAR was submitted with the Preferred Infrastructure Report (PIR).

### Construction Environmental Management Framework

A Construction Environmental Management Framework (CEMF) sets out the environmental, stakeholder and community management requirements for construction. It provides a linking document between the planning approval documentation and the construction environmental management documentation to be developed by the Principal Contractors relevant to their scope of works.

Section 10.2 of the CEMF requires principal contractors develop and implement a Cultural Heritage Management Plan (CHMP) in consultation with Registered Aboriginal Parties (Indigenous Heritage only) and the NSW Heritage Council.

### Cultural Heritage Management Plan

The Minister's Conditions of Approval require that the CHMP be prepared for the Project in consultation with the relevant Council and the NSW Heritage Council.

The key stakeholders related to Heritage who have been consulted in preparation of the CHMP include:

- Heritage Division as a delegate of the NSW Heritage Council
- Sydney City Council

### Cultural Heritage Management Plan consultation

As per the consultation requirements stated above, the CHMP for construction SYAB, which includes management for Aboriginal and non-Aboriginal heritage was sent to RAPs on 5 June 2017 for their review. RAPs were given 28 days to comment on the plan.

The following RAPs were contacted via email:

- Gordon Workman: Darug Land Observations (DLO)
- Jamie Workman: Darug Land Observations (DLO)
- Christopher Payne: Gundungurra Tribal Technical Services (GTTS)
- Ryan Johnson: Murri Bidgee Mullangari Aboriginal Corporation (MBMAC)
- Danny Franks: Tocomwall
- Kayla Williamson: Woronora Plateau Gundangarra Elders Council (WPGEC)
- Tony Williams: Aboriginal Archaeology Service INC (AAS)
- Peter Foster: Gundungurra Tribal Technical Services (GTTS)
- David Bell: Gundungurra Tribal Technical Services (GTTS)
- Tony Williams: Gundungurra Tribal Technical Services (GTTS)
- David Watts: Aboriginal Heritage Office (North Sydney Council)
- Darren Duncan: Duncan Suey & Associates
- Wandai Kirkbright/ Robert Brown: Bilinga Cultural Heritage Technical Services
- Darlene Hoskins-McKenzie: Gunyuu Cultural Heritage Technical Services
- Robert Brown/ Suzanne McKenzie: Muryunga Cultural Heritage Technical Services
- Levi McKenzie-Kirkbright: Murrumbul Cultural Heritage Technical Services
- Suzannah McKenzie/ Wandai Kirkbright: Wingikara Cultural Heritage Technical Services

The following RAPs were contacted via post:

- Celestine Everingham: Darug Aboriginal Cultural Heritage Assessments
- Pollowan Phillip Kahn: Kamilaroi-Yankuntjatjara Working Group
- David Watts: Aboriginal Heritage Office (North Sydney Council)
- Gandangara Local Aboriginal Land Council (GLALC)
- Nathan Moran: Metropolitan Local Aboriginal Land Council (MLALC)

Responses were received from the following parties:

- Pollowan Phillip Kahn: Kamilaroi-Yankuntjatjara Working Group (6/6/2017)
- Kayla Williamson: Woronora Plateau Gundangarra Elders Council (12/6/2017)
- Jamie Workman: Darug Land Observations (21/5/2017)

- Darleen Johnson: Murri Bidgee Mullangari Aboriginal Corporation (29/6/2017)

All parties who responded supported the CHMP. DLO have requested involvement in the monitoring of the topsoil removal and all other forms of work to be carried out on site. Engagement of DLO for works not involving archaeological management in line with the MCoA, would be at the discretion of the proponent and would not be an approval requirement.

Kamilaroi-Yankuntjatjara Working Group have recommended test excavation on any area that has natural soil which is in line with the archaeological methodology outlined in the CHAR and CHMP.

All consultation responses are included below.

## Conclusions

The consultation requirements relating to the CHMP have been satisfied. Please do not hesitate to contact me should you have any questions.

Kind Regards,



Sandra Wallace

Director  
Artefact Heritage

[sandra.wallace@artefact.net.au](mailto:sandra.wallace@artefact.net.au)

Pollowan Phillip Khan  
78 Forbes Street  
Emu Plains NSW 2750  
6/06/ 2016  
mobile: 0434545982



Veronica Norman  
Artefact  
Level 4, Building B 35 Saunders St  
Pyrmont NSW 2009

Dear Veronica

Thank for sending me the Heritage Plan for the Sydney Yard Access Bridge near Central Station, the Plan includes management for Aboriginal heritage and non, for the Sydney Metro - Chatswood to Sydenham.

I have read your report and am happy with it and support All your recommendations and I recommend further investigation in the form of test excavation on any area that has natural soil. As the Old People said once its, gone its gone for good and if there is any Monitoring to be done it must be an Archaeologist and a member of the Local Land Council if there isn't one then a naibering Land Council Person

Looking forward to be working with you and your TEAM, Regards Phillip Khan

As Senior Aboriginal person who has for the past forty of so years (40) actively participated in the Protection Aboriginal Cultural Heritage throughout the Sydney Basin , and particularly throughout Western Sydney, I, on behalf of the Kamilaroi Yankuntjatjara Working Group, wish to provide to you my organisations' registration of interest.

**Information in my registration of interest:**

1. I am a Senior Aboriginal and Principal of the Kamilaroi -Yankuntjatjara Working Group, and all Aboriginal entity (ABN33979702507).
2. I prefer communicating by, Mail, Telephone, and; and I am, the Principal, person to contact, and;  
My contact details are:  
Phillip Khan  
78 Forbes Street, Emu Plains NSW 2750  
Mobile 043 4545 982
3. I wish to be involved and participate in all levels of consultation/project involvement. I wish to attend all meetings, and, participate in available field work; and would receive a copy of the report.
4. I attach to this letter a copy of Kamilaroi- Yankuntjatjara Working Group's; GIO Public Liability Insurance; GIO Workers Compensation Certificate.

Should you wish me to provide further information, please do not hesitate to contact me on 0434545982.

Yours Sincerely,  
Pollowan Phillip Khan

**Veronica Norman**

---

**From:** Kayla Williamson <Kayla\_87\_@hotmail.com>  
**Sent:** Monday, June 12, 2017 3:17 PM  
**To:** Veronica Norman  
**Subject:** Re: Sydney Yard Access Bridge: Heritage Management Plan for construction

Hi Veronica

W.P.G.E.C agree with the specifications mentioned in the heritage management plan section 1.3 objectives and targets.

Kind Regards

Kayla Williamson

Sent from my iPhone

On 5 Jun 2017, at 3:38 pm, Veronica Norman <[Veronica.Norman@artefact.net.au](mailto:Veronica.Norman@artefact.net.au)> wrote:

Dear Kayla Williamson,

Thank you for your ongoing input into the Sydney Metro – Chatswood to Sydenham project.

As a Registered Aboriginal Party (RAP) for the project, we would value your input on the Heritage Management Plan for construction of the Sydney Yard Access Bridge near Central Station. This plan includes management for Aboriginal and non-Aboriginal heritage and is in accordance with the conditions of approval for the project and impact assessments prepared as part of the approval process. Please click the below link to access the plan.

HMP: <https://artefact.box.com/s/47y0a3clk0i0ijgc3v6pfhoil15nozlk>

Could you please respond with any comments you may have by 3rd July 2017.

Please do not hesitate to contact me if you have any queries or would like to discuss.

Kind regards

**Veronica Norman**

Heritage Consultant

**ARTEFACT**

Telephone: 61 2 9518 8411 Mobile: 0415 660 490

Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009

Web: [www.artefact.net.au](http://www.artefact.net.au)

Cultural Heritage Management | Archaeology | Heritage Interpretation

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If you received this in error, please notify us immediately.



**DARUG LAND  
OBSERVATIONS PTY LTD  
ABN 27 602 765 453**

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EMAIL: DARUGLANDOBSERVATIONS@GMAIL.COM  
PO BOX 2006 BENDALONG NSW 2539  
MOBILE: 0413 687 279

21<sup>st</sup> June 2017

Veronica Norman  
Artefact Heritage  
Level 4, Building B,  
35 Saunders Street  
PYRMONT NSW 2009

Dear Veronica,

**RE: SYDNEY METRO CITY & SOUTHWEST SYDNEY YARD ACCESS  
BRIDGE PROJECT**

Construction Heritage Management Plan

Darug Land Observations Pty Ltd has reviewed the construction heritage management plan, and supports the methodology for the proposed construction of a new Sydney Yards road bridge that will provide access from Regent Street into the Sydney Yard.

Furthermore, Darug Land Observations Pty Ltd would be involved in the monitoring of the topsoil removal and all other form of works to be carried out on the site.

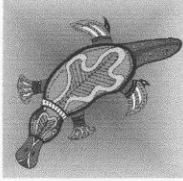
Look forward to working with you on the Sydney Metro City and Southwest Sydney Yard Access Bridge project.

Yours sincerely,

Jamie Workman  
Darug Land Observations Pty Ltd

Uncle Gordon Workman  
Darug Elder





# Murra Bidgee Mullangari

Aboriginal Corporation Cultural Heritage  
ICN: 8112

Date: 29/06/2017

Attention: Veronica Norman

Artefact Heritage  
Level 4, Building B, 35 Saunders Street,  
Pyrmont NSW 2009

E: [veronica.norman@artefact.net.au](mailto:veronica.norman@artefact.net.au)

Dear Veronica,

**Re: Sydney Yard Access Bridge: Heritage Management Plan for construction**

Murra Bidgee Mullangari Aboriginal Corporation have read the Heritage management plan and information for construction Sydney metro – Chatswood's to Sydenham. We are in agreeance with the management plan that have been made for project.

If you require further details please feel free to contact me either by mobile or email. I look forward to hearing from you.

Kind regards

Darleen Johnson – Carroll | **Administration**  
M: 0490 051 102

Ryan Johnson - Carroll | **Site Officer**  
M: 0497983332

**Murra Bidgee Mullangari**  
Aboriginal Corporation Cultural Heritage  
A: PO Box 246, Seven Hills, NSW, 2147  
E: [murrabidgeemullangari@yahoo.com.au](mailto:murrabidgeemullangari@yahoo.com.au)



Department  
of Industry



Murra Bidgee Mullangari Aboriginal Corporation support their community in financial hardship with Energy Assistance packages. We are a NSW Government approved EAPA voucher distributor

Page 1 of 1

PO Box 246, Seven Hills, NSW, 2147

Ryan – 0497 983 332 | Darleen – 0490 051 102 | Email: [murrabidgeemullangari@yahoo.com.au](mailto:murrabidgeemullangari@yahoo.com.au)

## Appendix C

### Compliance Matrix

# Sydney Metro City and Southwest Sydney Yard Access Bridge Project

## CHMP MCoA and REMM Compliance Matrix

The Project was assessed as a Critical State Significance Infrastructure (CSSI) by the Minister for Planning and Environment under Section 115ZB of the EP&A Act. The Minister's Conditions of Approval (CoA) were granted on 9 January 2017 with conditions. A heritage sub-plan is required as part of the Construction Environmental Management Plan (CEMP) for the project under CoA C3(g). The heritage conditions of approval are outlined in conditions E13 -27 and addressed in the SYAB Construction Heritage Sub-plan as outlined below. Additionally, the Revised Environmental Mitigation Measures and requirements in the Construction Environmental Management Framework also provides guidance on required actions during construction works and have been referenced accordingly.

Table 1 Compliance Matrix - Minister's Conditions of Approval (CoA)

CoA	Requirement	Document Reference						
C3(g)	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.	Section 1.4 - Consultation Appendix A						
	<table border="1"> <thead> <tr> <th></th> <th>Required CEMP sub- plan</th> <th>Relevant government agencies to be consulted for each CEMP sub-plan</th> </tr> </thead> <tbody> <tr> <td>(g)</td> <td>Heritage</td> <td>Heritage Council (or its delegate) and Relevant Council(s)</td> </tr> </tbody> </table>		Required CEMP sub- plan	Relevant government agencies to be consulted for each CEMP sub-plan	(g)	Heritage	Heritage Council (or its delegate) and Relevant Council(s)	
	Required CEMP sub- plan	Relevant government agencies to be consulted for each CEMP sub-plan						
(g)	Heritage	Heritage Council (or its delegate) and Relevant Council(s)						
C4	The CEMP sub-plans must state how: <ul style="list-style-type: none"> <li>(a) the environmental performance outcomes identified in the EIS as amended by the PIR as modified by these conditions will be achieved;</li> <li>(b) the mitigation measures identified in the EIS as amended by the PIR as modified by these conditions will be implemented;</li> <li>(c) the relevant terms of this approval will be complied with; and</li> <li>(d) issues requiring management during construction, as identified through ongoing environmental risk analysis, will be managed.</li> </ul>	<ul style="list-style-type: none"> <li>(a) Refer Table 4 below</li> <li>(b) Refer Table 2 below</li> <li>(c) Refer Table 1 (this table)</li> <li>(d) Refer Table 5 below</li> </ul>						
E10	The Proponent must not destroy, modify or otherwise physically affect any Heritage item not identified in documents referred to in Condition A1	Section 1.3						
E11	The Proponent must design and construct the Sydney Yard Access Bridge so as to minimise its impact on the heritage value of Mortuary Station. The design must address the design objectives and principles identified in section 2.5 of the PIR.	Table 4-2 – Design Management Design for the SYAB project will be completed outside of the management of this CHMP						
E13	The Proponent must prepare a Heritage Archival Recording Report, including photographic recording of the heritage items identified in documents referred to in Condition A1.  Archival recording must include but not be limited to the following heritage items: <ul style="list-style-type: none"> <li>a) any component of the Blues Point Waterfront Group and the McMahons Point South heritage conservation area to be directly affected or altered, including vegetation and significant landscape features;</li> </ul>	<ul style="list-style-type: none"> <li>(e) is applicable to SYAB</li> <li>Table 4-2 – Archival recording</li> </ul>						

CoA	Requirement	Document Reference
	<ul style="list-style-type: none"> <li>b) Hickson Road wall in the vicinity of proposed ventilation risers and skylights for Barangaroo</li> <li>c) Station or any other project elements to be located in front of the Hickson Road wall; (c) Martin Place, between Elizabeth and Castlereagh Streets, Sydney;</li> <li>d) the Rolling Stock Officers' Garden, Rolling Stock Officers' Building and Cleaners' Amenities Building in Sydney Yard and any other component of the Sydney Terminal and Central Railway Stations group to be removed or altered; and</li> <li>e) views from Mortuary Station before construction of the Sydney Yard Access Bridge.</li> </ul> <p>The archival recording must be undertaken by a suitably qualified heritage specialist and prepared in accordance with NSW Heritage Office's <i>How to Prepare Archival Records of Heritage Items</i> (1998) and <i>Photographic Recording of Heritage Items Using Film or Digital Capture</i> (2006).</p> <p>Within two (2) years of completing the archival recording, or any other later time agreed by the Secretary, the Proponent must submit the <b>Heritage Archival Recording Report</b> to the Department, the OEH, Heritage Council of NSW, Relevant Council(s), relevant local libraries and local historical societies in the respective local government area(s).</p>	
E14	<p>In addition to the archival recording as required by Condition E13, the Proponent must, prior to demolition, undertake external photography of all buildings and structures to be demolished, in consultation with and to the standards of the relevant Council. The recordings must be made available to the relevant Council.</p>	<p>Table 4.2 – Archival recording This will be completed by Sydney Metro and outside the management of this CHMP</p>
E17	<p><b>The Archaeological Assessment Research Design Report (AARD)</b> in the PIR 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:</p> <ul style="list-style-type: none"> <li>(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;</li> <li>(c) include cored soil samples for soil and pollen for the Pitt Street site within the Tank Stream Valley; and</li> <li>(d) provide for a sieving strategy.</li> </ul>	<p>The AARD has been completed and forms as part of the project Preferred Infrastructure Report. Requirements of the AARD are considered in Sections 3.3, 4.1 and Table 4-2</p>
E18	<p>Before excavation of archaeological management sites, the Proponent must nominate a suitably qualified Excavation Director who complies with the Heritage Council of NSW's <i>Criteria for Assessment of Excavation Directors</i> (July 2011) to oversee and advise on matters associated with historic archaeology and advise the Department and OEH.</p> <p>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</p>	<p>Section 3.4 Table 4-2 Nomination of an Excavation Director</p>

CoA	Requirement	Document Reference
	<p>and Excavation Methodology.</p> <p>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.</p>	
E19	<p>An <b>Unexpected Heritage Finds Procedure</b> must be prepared:</p> <p>(a) to manage unexpected heritage finds in accordance with any guidelines and standards prepared by the Heritage Council of NSW or OEH; and</p> <p>(b) by a suitably qualified and experienced heritage specialist.</p> <p>The procedure must be included in the <b>AARD</b> and must be implemented for the life of the project.</p>	Section 4.1
E20	<p>In the event that a Relic is discovered, relevant construction must cease in the affected area and the <b>Excavation Director</b> must be notified and assess the finds, identify their significance level and provide mitigation advice according to the significance level and the impact proposed. Depending on the significance of the find, the Excavation Director must attend the site.</p> <p>The Secretary must be notified at the same time as the Heritage Council of NSW (or its delegate) of any Relic found.</p> <p>An <b>Archaeological Relic Management Plan</b> specific to the Relic 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.</p> <p>Construction in the vicinity of the discovery must not recommence until the requirements of the ARMP have been implemented, in consultation with the <b>Excavation Director</b>. The Proponent must notify the Secretary in writing of the outcome of consultation with the Heritage Council of NSW</p>	<p>Table 4-2 Notification and management of relics</p> <p>The Archaeological Relic Management Plan will be completed by Sydney Metro and outside the management of this CHMP</p>
E21	<p>The Proponent must prepare a <b>Heritage Interpretation Plan</b> 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 <b>Heritage Interpretation Plan</b> must inform the <b>Station Design and Precinct Plan</b> referred to in Condition E101. The <b>Heritage Interpretation Plan</b> must be prepared in accordance with the <i>NSW Heritage Manual</i>, the <i>NSW Heritage Office's Interpreting Heritage Places and Items: Guidelines</i> (August 2005), and the <i>NSW Heritage Council's Heritage Interpretation Policy</i> and include, but not be limited to:</p> <p>(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 Central Station and Martin Place Station Precincts;</p> <p>(b) identification and confirmation of interpretive initiatives implemented to mitigate impacts to archaeological Relics, heritage items and conservation areas affected by the CSSI including;</p> <ol style="list-style-type: none"> <li>i. use of interpretative hoardings during construction</li> <li>ii. community open days</li> <li>iii. community updates</li> <li>iv. station and precinct design; and</li> </ol> <p>(c) Aboriginal cultural and heritage values of the project area including the results</p>	<p>Table 4-2 Heritage Interpretation</p> <p>This will be completed by Sydney Metro and outside the management of this CHMP</p>

CoA	Requirement	Document Reference
	of any archaeological investigations undertaken.	
	The <b>Heritage Interpretation Plan</b> 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.	
E24	Before excavation, the Proponent must implement the <b>Aboriginal Cultural Heritage Assessment</b> 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 4
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 suitably 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 <b>Heritage Management sub-plan</b> required by Condition C3 and, where relevant, include registration in the OEH's Aboriginal Heritage Information Management System (AHIMS)	Section 1.3 Table 4-1 Table 4-2 Section 4.1
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 <b>Exhumation Management Plan</b> (Condition E27)	Section 1.3 Table 4-1 Unexpected finds procedures for human skeletal remains
E27	An <b>Exhumation Management Plan</b> must be prepared to guide the relocation of recovered human remains. The <b>Exhumation Management Plan</b> must be prepared: <p>(a) in consultation with, and meeting the requirements of, the OEH and NSW Health; and</p> <p>(b) in accordance with the <i>Guidelines for Management of Human Skeletal Remains</i> (NSW Heritage Office, 1998b) and <i>NSW Health Policy Directive – Exhumation of human remains</i> (December, 2013), and other relevant guidelines and standards prepared by the Heritage Council of NSW or OEH.</p> <p>The <b>Exhumation Management Plan</b> must be provided to the Secretary for information before the commencement of excavation works.</p> <p><i>Note: Human remains that are found unexpectedly during works are under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately.</i></p>	Sydney Metro Exhumation Management Plan will be completed by Sydney Metro and outside the management of this CHMP

Table 2 Compliance Matrix – Revised Environmental Mitigation Measures (REMMS)

REMM	Requirement	Document Reference
NAH1	Archival recording and reporting of the following heritage items would be carried out in accordance with the NSW Heritage Office's <i>How to Prepare Archival Records of Heritage Items</i> (1998a), and <i>Photographic Recording of Heritage Items Using Film or Digital Capture</i> (2006): <ul style="list-style-type: none"> <li>The internal heritage fabric and any non-original elements removed from within the curtilage of Mowbray House, Chatswood</li> <li>The interior, exterior and setting of the shop at 187 Miller Street, North Sydney</li> </ul>	Dot point 9 is applicable to SYAB Table 4-2 – Archaeological reporting



REMM	Requirement	Document Reference
	<ul style="list-style-type: none"> <li>The fabric and setting of the North Sydney bus shelters requiring removal and temporary relocation at Victoria Cross Station and Blues Point temporary site</li> <li>Any component of the Blues Point Waterfront Group and the McMahons Point South heritage conservation area to be directly affected or altered, including vegetation and significant landscape features</li> <li>Hickson Road wall in the vicinity of proposed ventilation risers and skylights for Barangaroo Station</li> <li>The interior, exterior and setting of the 'Flat Building' at 7 Elizabeth Street, Sydney</li> <li>Martin Place, between Elizabeth and Castlereagh streets, Sydney</li> <li>The heritage fabric of areas of the existing Martin Place Station affected by the project</li> <li>The Rolling Stock Officers Garden, Rolling Stock Officers Building and Cleaners Amenities Building in Sydney Yard and any other component of the Sydney Terminal and Central Railway Stations group to be removed or altered</li> <li>Directly impacted parts of the Congregational Church at Waterloo</li> </ul>	
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.	The AARD has been completed and forms as part of the project Preferred Infrastructure Report. Requirements of the AARD are considered in Sections 3.3, 4.1 and Table 4-2
NAH3	An Exhumation Policy and Guideline would be prepared and implemented. It would be developed in accordance with the <i>Guidelines for Management of Human Skeletal Remains</i> (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	Tables 4-1 and 4-2 Incident Response
NAH4	The method for the demolition of existing buildings and / or structures at Chatswood dive site, Victoria Cross Station, Martin Place Station, Pitt Street Station, Central Station and Waterloo Station would be developed to minimise direct and indirect impacts to adjacent and / or adjoining heritage items.	Table 4 – 2 Management
NAH6	An appropriately qualified and experienced heritage architect would form part of the Sydney Metro Design Review Panel and would provide independent review periodically throughout detailed design.	Table 4-2 – Design Management
NAH7	The project design would be sympathetic to heritage items and, where reasonable and feasible, minimise impacts to the setting of heritage items. The detailed design for Martin Place Station and Central Station would be developed with input from a heritage architect.	Table 4-2 – Design Management
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 <i>Interpreting Heritage Places and Items: Guidelines</i> (August 2005), and the NSW Heritage Council's <i>Heritage Interpretation Policy</i> .	Table 4-2 Heritage Interpretation
NAH9	A Central Station heritage interpretation plan would be developed and implemented. It would be consistent with the Central Station Conservation Management Plan (Rappoport and Government Architects Office, 2013) and in accordance with the guidelines identified in NAH8.	Table 4-2 Heritage Interpretation
NAH10	The detailed design of the Sydney Yard Access Bridge would be carried out in accordance with the relevant specific element principles in the Design Guidelines.	Table 4-2 – Design Management



REMM	Requirement	Document Reference
NAH11	<p>Except for heritage significant elements affected by the project, direct impact on other heritage significant elements forming part of the following items would be avoided:</p> <ul style="list-style-type: none"> <li>The Blues Point Waterfront Group (including the former tram turning circle, stone retaining wall, bollards and steps)</li> <li>The Millers Point and Dawes Point Village Precinct</li> <li>The existing Martin Place Station</li> <li>Sydney Terminal and Central Railway Stations group</li> <li>Sydney Yard (including the Shunters Hut and Prince Alfred Sewer).</li> </ul>	<p>Table 4-2</p> <p>Where necessary an exclusion zone would be set up around the Shunters Hut and Prince Alfred Sewer</p>
NAH13	<p>The design and detailed construction planning of work at Central Station would consider the requirements of the <i>Central Station Conservation Management Plan</i> (Rappoport and Government Architects Office, 2013) and include consideration of opportunities for the retention, conservation and / or reuse of original and significant heritage fabric and movable heritage items.</p> <p>Consultation would be carried out with Sydney Trains and the Heritage Council of NSW during design development.</p>	<p>Table 4-2 – Design Management</p> <p>Design for the SYAB project will be completed outside of the management of this CHMP</p>
NAH18	<p>Works at Central Station would be carried out with the oversight of heritage specialists.</p>	<p>LOR have engaged Weir Philips to advise on built heritage and Artefact Heritage to manage archaeology for the project.</p>
AH1	<p>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.</p>	<p>Section 1.4</p>
AH2	<p>The cultural heritage assessment report would be implemented.</p>	<p>Section 4</p>
AH3	<p>Archaeological test excavation (and salvage when required) would be carried out where intact natural soil profiles with the potential to contain significant archaeological deposits are encountered at the Blues Point temporary site, Barangaroo Station, Martin Place Station, Pitt Street Station, Central Station, Waterloo Station and Marrickville dive site. Excavations would be conducted in accordance with the methodology outlined in the Aboriginal cultural heritage assessment report</p>	<p>Section 4</p>
AH4	<p>Appropriate Aboriginal heritage interpretation would be incorporated into the design for the project in consultation with Aboriginal stakeholders.</p>	<p>Table 4-2 Heritage Interpretation</p> <p>This will be completed by Sydney Metro and outside the management of this CHMP</p>

Table 4 Revised environmental performance outcomes

Revised environmental performance outcomes	Document Reference
<p><b>Non-Aboriginal heritage</b></p> <p>The project would be sympathetic to heritage items and, where feasible and reasonable, avoid and minimise impacts to non-Aboriginal heritage items and archaeology ›</p>	<p>Section 1.3 and 1.4</p>
<p>The design of the project would reflect the input of an independent heritage architect, relevant stakeholders and the design review panel.</p>	<p>Table 4-2 Design Requirements</p>

Revised environmental performance outcomes	Document Reference
<b>Aboriginal heritage</b>	
The project would be sympathetic to heritage items and, where feasible and reasonable, avoid and minimise impacts to Aboriginal heritage items and archaeology	Section 1.3 and 1.4
The design of the project would reflect the input of an independent heritage architect, relevant stakeholders and the design review panel.	Table 4-2 Design Requirements

Table 5 CEMF Compliance Matrix – Issues requiring management during construction

Heritage Management Objectives	Document Reference
a. The following heritage management objectives will apply to construction:	
<ul style="list-style-type: none"> <li>Embed significant heritage values through any architectural design, education or physical interpretation.</li> </ul>	LOR have engaged Weir Philips to advise on built heritage and Artefact Heritage to manage archaeology for the project. Table 4-2 Heritage Interpretation
<ul style="list-style-type: none"> <li>Minimise impacts on items or places of heritage value.</li> </ul>	Table 4-2 Management
<ul style="list-style-type: none"> <li>Avoid accidental impacts on heritage items.</li> </ul>	Table 4-2 Management
<ul style="list-style-type: none"> <li>Maximise worker's awareness of indigenous and non-indigenous heritage</li> </ul>	Table 4-2 Inductions Section 4.2

Heritage Management Implementation	Document Reference
a. Principal Contractors will develop and implement a Heritage Management Plan which will include as a minimum:	The HMP
<ul style="list-style-type: none"> <li>Will be developed in consultation with Registered Aboriginal Parties (Indigenous Heritage only) and the NSW Heritage Council.</li> </ul>	Section 1.4
<ul style="list-style-type: none"> <li>The heritage mitigation measures as detailed in the environmental approval documentation.</li> </ul>	Section 4
<ul style="list-style-type: none"> <li>The responsibilities of key project personnel with respect to the implementation of the plan.</li> </ul>	Section 5
<ul style="list-style-type: none"> <li>Procedures for interpretation of heritage values uncovered through salvage or excavation during detailed design.</li> </ul>	Table 4-1 - Management Table 4-2 - Management
<ul style="list-style-type: none"> <li>Procedures for undertaking salvage or excavation of heritage relics or sites (where relevant) and any recordings of heritage relics prior to works commencing that would affect them.</li> </ul>	Table 4-1 - Management Table 4-2 - Management
<ul style="list-style-type: none"> <li>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);</li> </ul>	Table 4-1 - Management Table 4-2 - Management
<ul style="list-style-type: none"> <li>Procedures for unexpected heritage finds, including procedures for dealing with human remains.</li> </ul>	Table 4-1 – Incident Response Table 4-2 – Incident Response

Heritage Management Implementation	Document Reference
<ul style="list-style-type: none"> <li>Heritage monitoring requirements.</li> </ul>	Table 4-1 - Monitoring Table 4-2 - Monitoring
<ul style="list-style-type: none"> <li>Compliance record generation and management.</li> </ul>	Table 4-1 - Management Table 4-2 - Management
b. The Contractor's regular inspection will include checking of heritage mitigation measures.	Table 4-1 - Monitoring Table 4-2 - Monitoring
c. Compliance records will be retained by the Contractor. These will include:	Table 4-1 - Monitoring Table 4-2 - Monitoring
<ul style="list-style-type: none"> <li>Inspections undertaken in relation to heritage management measures.</li> </ul>	Table 4-1 - Monitoring Table 4-2 - Monitoring
<ul style="list-style-type: none"> <li>Archival recordings undertaken of any heritage item.</li> </ul>	Table 4-1 - Monitoring Table 4-2 - Monitoring
<ul style="list-style-type: none"> <li>Unexpected finds and stop work orders.</li> </ul>	Table 4-1 - Monitoring Table 4-2 - Monitoring
<ul style="list-style-type: none"> <li>Records of any impacts avoided or minimised through design or construction methods.</li> </ul>	Table 4-1 - Monitoring Table 4-2 - Monitoring

Heritage Mitigation	Document reference
a. Examples of heritage mitigation measures include:	
<ul style="list-style-type: none"> <li>Any heritage item not affected by the works will be retained and protected throughout construction.</li> </ul>	Table 4-1 - Management Table 4-2 - Management
<ul style="list-style-type: none"> <li>Prior to the commencement of construction undertake professional archaeological excavation, investigation and reporting of any historical Indigenous heritage sites of state significance which will be affected.</li> </ul>	Table 4-1 - Management Table 4-2 - Management
<ul style="list-style-type: none"> <li>Undertake archival recordings of all non-Indigenous heritage items affected by the works prior to commencement of works.</li> </ul>	Table 4.2 - Management
<ul style="list-style-type: none"> <li>Implement unexpected heritage find procedures for Indigenous and non-Indigenous</li> </ul>	Table 4-1 – Incident Response Table 4-2 – Incident Response