



APPENDIX B5

Construction Heritage Management Plan
Whytes Lane to Pimlico Road Early
Works – Wave 2

Woolgoolga to Ballina Pacific Highway
Upgrade

OCTOBER 2015

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(July 2012)

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Glossary / Abbreviations

CEMP	Construction Environmental Management Plan
CoA	Condition of approval
DECC	Former Department of Environment and Climate Change (NSW) now NSW Office of Environment and Heritage.
DP&E	NSW Department of Planning and Environment
DP&I	The former Department of Planning and Infrastructure (now Planning and Environment)
EIS	Woolgoolga to Ballina Pacific Highway Upgrade Environmental Impact Statement (December, 2012)
EP&A Act	<i>NSW Environmental Planning and Assessment Act 1979</i>
EPBC Act	<i>Commonwealth Environmental Protection and Biodiversity Conservation Act 1999</i>
EPL	NSW Environment Protection Licence under the Protection of the Environment Operations Act 1997.
EWMS	Environmental Work Method Statements
CHMP	Construction Heritage Management Plan
Minister, the	NSW Minister for Planning
NPW Act	<i>NSW National Parks and Wildlife Act 1974</i>
OEH	NSW Office of Environment and Heritage
PoEO Act	NSW Protection of the Environment Operations Act 1997
Project, the	Whytes Lane to Pimlico Road Early Works – Wave 2
Secretary	Secretary of the Department of Planning and Environment
SEE Civil	SEE Civil Pty Ltd
SPIR	Woolgoolga to Ballina Pacific Highway Upgrade Submissions Preferred Infrastructure Report (November, 2013)
RMS, Roads and Maritime Services	NSW Roads and Maritime
RPS (2015) Report	<i>Ancillary site 11-1a, McAndrews Lane, Pimlico: Report on the results of test excavation, Ballina Shire Local Government Area. Prepared by RPS Australia East Pty Ltd Version 2.1, July 2015.</i>

1 Introduction

1.1 Context

This Construction Heritage Management Plan (CHMP) forms part of the Construction Environmental Management Plan (CEMP) for Whytes Lane to Pimlico Road Early Works – Wave 2 (the Project).

This CHMP has been prepared to address the requirements of the Minister's Conditions of Approval (CoA) and the mitigation and management measures listed in the Pacific Highway Upgrade Woolgoolga to Ballina Environmental Impact Statement (EIS) and all applicable legislation.

There are four tie in projects within the Woolgoolga to Ballina project limits, namely the Sapphire to Woolgoolga, Glenugie Upgrade, Devils Pulpit and Ballina Bypass projects. These tie in projects have been approved separately by the Department of Planning and Environment. Relevant conditions of approval for these projects have been referenced in the Whytes Lane to Pimlico Road Early Works – Wave 2 CEMP and plans as appropriate.

Wave 2 (the Project) is located within Section 11 of the Woolgoolga to Ballina Pacific Highway Upgrade (SSI 4963). Wave 2 of the Early Works (soft soil treatments) is to allow the future upgrade of the section of HW10 Pacific Highway, Woolgoolga to Ballina. The Project specifically covers the following soft soil site as detailed below:

- Soft Soil Site 11 – between Whytes Lane and Pimlico Road (W2P) (STN 159,900 to STN 163,800).

1.2 Background

The Pacific Highway Upgrade Woolgoolga to Ballina EIS (RMS 2012) assessed the impacts of construction and operation of the Project on Aboriginal and non-Aboriginal heritage.

As part of EIS development, detailed non-Aboriginal heritage and Aboriginal cultural heritage assessments were prepared to address the Environmental Assessment Requirements issued by the Department of Planning and Environment. The non-Aboriginal heritage assessment was included in the EIS as Working Paper: Historic (non-Aboriginal) Heritage Assessment. The Aboriginal cultural heritage assessment relevant to Section 11 was included in the EIS as Working Paper: Aboriginal Cultural Heritage Assessment (Woodburn to Ballina Section).

The EIS did not identify any historical (non-Aboriginal) heritage properties that would be impacted by the Project.

The SPIR identified that one artefact scatter with Potential Archaeological Deposit (PAD) (AHIMS Site #04-4-0217) at ancillary facility site W2B 11-1a is likely to be directly or indirectly impacted by the Project and that further assessment was required. The site could not be inspected at that time due to coverage with cane.

Navin Officer Heritage Consultants (NOHC) undertook an archaeological assessment and survey of the site in 2014. Five aboriginal objects were identified during the field survey. All of the identified artefacts were located across the northern third of ancillary facility site W2B 11-1a. On the basis of the results of the field survey, NOHC recommended a limited program of sub-surface investigations be undertaken across areas of proposed impacts (RPS 2015).

RPS was engaged by RMS to undertake the archaeological test excavations of the proposed ancillary site W2B 11-1a for the Project in 2014. No Aboriginal objects were identified during the surface survey, the excavation of the test pits or the sieving of the sediment. On this basis it is considered that the impact of the proposed works on Aboriginal objects will be nil

to the depths tested (approximately 500 millimetres). Where works are required to depths that may impact on potential underlying sands or deposits high in gravel, it is considered that some mitigation measures may be required (RPS, 2015).

Department of Planning and Environment have assessed the reports prepared and consider that the report complies with the requirements of condition B44(b).

Additional management measures were provided within the Woolgoolga to Ballina Submissions / Preferred Infrastructure Report Nov 2013, with applicable management measures from that report and the RPS (2015) report included as part of this CHMP.

1.3 Environmental management systems overview

The overall Environmental Management System for the Project is described in the Construction Environmental Management Plan (CEMP).

The CHMP is part of the SEE Civil environmental management framework for the Project, as described in Section 4 of the CEMP. In accordance with D26(d), this Plan has been developed in consultation with the NSW Office of Environment and Heritage (OEH) and registered Aboriginal stakeholders.

Management measures identified in this Plan will be incorporated into site or activity specific Environmental Work Method Statements (EWMS).

EWMS will be developed and signed off by environment and management representatives prior to associated works and construction personnel will be required to undertake works in accordance with the identified mitigation and management measures.

Used together, the CEMP, strategies, procedures and EWMS form management guides that clearly identify required environmental management actions for reference by SEE Civil personnel and contractors.

The review and document control processes for this Plan are described in Chapters 9 and 10 of the CEMP.

2 Purpose and objectives

2.1 Purpose

The purpose of this Plan is to describe how Aboriginal and non-Aboriginal heritage will be protected and managed during construction of the Project.

2.2 Objectives

The key objective of the CHMP is to ensure that impacts to Aboriginal and non-Aboriginal heritage are minimised and within the scope permitted by the planning approval. To achieve this objective, the following will be undertaken:

- Facilitate engagement with the local Aboriginal community in partnership to appropriately manage the Aboriginal cultural heritage values associated with the project.
- Ensure appropriate controls and procedures are implemented during construction activities to avoid or minimise potential adverse impacts to Aboriginal and non-Aboriginal heritage along the Project corridor.
- Ensure appropriate measures are implemented to address the relevant CoA outlined in Table 3.1 and the safeguards detailed in the EIS and RPS (2015) report.
- Ensure appropriate measures are implemented to comply with all relevant legislation and other requirements as described in Section 3.1 of this Plan.

2.3 Targets

The following targets have been established for the management of Aboriginal cultural heritage and non-Aboriginal heritage impacts during the project:

- Ensure full compliance with the relevant legislative requirements and CoA.
- Always avoid harm to Aboriginal cultural heritage and non-Aboriginal heritage where possible. If impacts are unavoidable, the objective is then to minimise impacts on known Aboriginal and non-Aboriginal heritage sites.
- Follow correct procedure and ensure notification of any Aboriginal and non-Aboriginal heritage objects/places uncovered during construction.
- Ensure Aboriginal and non-Aboriginal Cultural Heritage Awareness Training is provided to all personnel in the form of inductions before they begin work on-site.

3 Environmental requirements

3.1 Relevant legislation and guidelines

3.1.1 Legislation

Legislation relevant to heritage management includes:

- *Environmental Planning and Assessment Act 1979* (EP&A Act).
- *National Parks and Wildlife Act 1974* (NPW Act).
- *Heritage Act 1977* (Heritage Act).
- *Environment Protection Biodiversity Conservation Act, 1999* (EPBC Act) (Commonwealth).
- *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* (Commonwealth).

Relevant provisions of the above legislation are explained in the register of legal and other requirements included in Appendix A1 of the CEMP.

3.1.2 Guidelines

The main guidelines, specifications and policy documents relevant to this Plan include:

- *RMS QA Specification G36 – Environmental Protection* (Management System).
- *RMS Standard Procedure – Unexpected Archaeological Finds* (November 2011).
- *Procedure for Aboriginal Cultural Heritage Consultation and Investigation* (RMS 2011).
- *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) (for reference only).
- *Altering Heritage Assets* (Heritage Office and DUAP 1996).
- *Assessing Heritage Significance* (NSW Heritage Office 2001).
- *RTA Heritage Guidelines* (March 2004).
- *Archaeological Assessment Guidelines* (NSW Heritage Office and NSW Department of Urban Affairs and Planning 1996).
- 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).

3.2 Minister's Conditions of Approval

The CoA relevant to this Plan are listed in Table 3-1. A cross reference is also included to indicate where the condition is addressed in this Plan or other Project management documents.

Work where heritage, threatened species or suitable habitat, populations or endangered ecological communities would be affected is classified as construction, unless otherwise approved by the Secretary in consultation with the Environment Protection Authority or in accordance with an approved strategy, plan or program required by this approval.

Table 3-1 Conditions of Approval relevant to the CHMP

CoA No.	Condition Requirements	Document Reference
Aboriginal Heritage		
B44	<p>Prior to the commencement of construction affecting PAD site WWC Dirty Creek 1 and ancillary facilities at Section 4, Site 1; Section 4, Site 3; Section 7, Site 1; Section 10, Site 1a; and Section 11, Site 1a, the Applicant shall:</p> <ul style="list-style-type: none"> (a) undertake field investigation, and where required, an archaeological investigation of the site(s) using a methodology generally consistent with testing undertaken for the Environmental Impact Statement, and prepared in consultation with the OEH (Aboriginal heritage) and the relevant Registered Aboriginal Parties; and (b) prepare a report on the results of the archaeological investigation, including recommendations (such as for further archaeological work) in consultation with the OEH and to the satisfaction of the Secretary, and shall include, but not necessarily be limited to: <ul style="list-style-type: none"> (i) consideration of measures to avoid or minimise disturbance to Aboriginal objects where objects of moderate to high significance are found to be present; (ii) recommendations for any further investigations under condition B45 where impacts cannot be avoided; and (iii) details of management and mitigation measures to ensure there are no additional impacts due to pre-construction and construction activities; and (c) submit the report to the relevant Registered Aboriginal Parties, the OEH (Aboriginal heritage) and the Secretary. 	RPS (2015) Report
B45	Prior to the commencement of construction activities affecting Aboriginal sites WWC39, WWC46, Tyndale 2 site, IR2W4, Site 11, E2/2, WWC37, Dubaljeen site (New Italy 1), The Gap Road 1,	RPS (2015) Report

CoA No.	Condition Requirements	Document Reference
	<p>WX21 Site 8, Site 1, Site 2, Site 3 and Site 4 and sites recommended by condition B44 for further investigation, the Applicant shall:</p> <p>(a) develop a detailed salvage strategy, prepared in consultation with the OEH (Aboriginal heritage) and the Aboriginal stakeholders. The salvage strategy shall be prepared to the satisfaction of the Secretary; and</p> <p>(b) undertake any further archaeological excavation works recommended by the results of the detailed salvage strategy.</p> <p>Within twelve months of completing the above work, unless otherwise agreed by the Secretary, the Applicant shall prepare a report containing the findings of the excavations, including artefact analysis and Aboriginal Site Impacts Recording Forms (ASIR), and the identification of final storage location for all Aboriginal objects recovered (testing and salvage), in consultation with the relevant Registered Aboriginal Parties, the OEH (Aboriginal heritage) and to the satisfaction of the Secretary.</p> <p>The report shall be submitted to the relevant Registered Aboriginal Parties, the OEH (Aboriginal heritage) and the Secretary.</p> <p>Note:</p> <ul style="list-style-type: none"> Where archaeological testing has occurred as part of the environmental assessment and the results are included in the documents referred to in condition A2, the sites tested shall be included in the final report prepared under condition B46. 	
B53	This approval does not allow the Applicant to destroy, modify or otherwise physically affect human remains as part of the SSI.	Section 6.2 Section 7

CoA No.	Condition Requirements	Document Reference
B54	The Applicant shall not destroy, modify or otherwise physically affect any heritage items outside the SSI footprint, unless otherwise agreed by the Secretary in accordance with condition B78.	Section 7
B55	The measures to protect heritage sites near or adjacent to the SSI during construction shall be detailed in the Construction Heritage Management Plan	Section 7
D26 (d)	<p>a Construction Heritage Management Plan to detail how construction impacts on Aboriginal and non-Aboriginal heritage will be minimised and managed. The plan shall be developed in consultation with the OEH, the NSW Heritage Council (for non-Aboriginal heritage) and Registered Aboriginal Parties (for Aboriginal heritage), and include, but not necessarily be limited to:</p> <p>(i) in relation to Aboriginal Heritage:</p> <ul style="list-style-type: none"> a) details of further investigation and identification of Aboriginal cultural heritage sites within the SSI boundary; b) details of management measures to be carried out in relation to Aboriginal heritage, including a detailed methodology and strategies for protection, monitoring, salvage, and conservation, of sites and items associated with the SSI; c) procedures for dealing with previously unidentified Aboriginal objects (excluding human remains) including cessation of works in the vicinity, assessment of the significance of the item(s) and determination of appropriate mitigation measures including when works can re-commence by a suitably qualified archaeologist in consultation with Department of Planning and Environment, OEH and Registered Aboriginal Parties and assessment of the consistency of any new Aboriginal heritage impacts against the approved impacts of the SSI, and registering of the new site in the OEH's Aboriginal Heritage Information Management System (AHIMS) register; d) procedures for dealing with human remains, including cessation of works in the vicinity and notification of Department of Planning and Environment, NSW Police Force, OEH and Registered Aboriginal Parties and not recommencing any works in the area unless authorised by the OEH and/or the NSW Police Force; 	<p>This plan</p> <p>Section 1.2</p> <p>Section 6.2 & Section 7, Appendix C</p> <p>Section 6.2 & Section 7, Appendix C</p> <p>Section 6.2 & Section 7, Appendix C</p>

CoA No.	Condition Requirements	Document Reference
	e) heritage training and induction processes for construction personnel (including procedures for keeping records of inductions) and obligations under the conditions of this approval including site identification, protection and conservation of Aboriginal cultural heritage; and	Section 7, Appendix B
	f) procedures for ongoing Aboriginal consultation and involvement for the duration of the SSI; and	Section 4
(ii)	in relation to non-Aboriginal Heritage:	
	a) identification of heritage Items directly and indirectly affected by the SSI;	Section 6.3
	b) 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);	Section 7
	c) details of monitoring and reporting requirements for impacts on heritage items;	Section 7
	d) procedures for dealing with previously unidentified heritage objects, (including cessation of works in the vicinity, assessment of the significance of the item(s) and determination of appropriate mitigation measures including when works can re-commence by a suitably qualified and experienced archaeologist in consultation with the OEH, NSW Heritage Council and Department of Planning and Environment, and assessment of the consistency of any new heritage impacts against the approved impacts of the SSI; and	Section 7
	e) heritage training and induction processes for construction personnel (including procedures for keeping records of inductions and obligations under this approval including site identification, protection and conservation of non-Aboriginal cultural heritage; and	Appendix D
(iii)	mechanisms for the monitoring, review and amendment of this plan.	Section 9

4 Aboriginal consultation

4.1 Consultation undertaken to date

Consultation and collaboration with registered Aboriginal stakeholders and with the agencies has been integral to the assessment and management of Aboriginal cultural heritage for the project. Consultation is outlined in the EIS Chapters 7 and 12.

4.2 Ongoing consultation

In accordance with the requirements of the EIS, cultural heritage training will be undertaken for all personnel prior to involvement in the construction of the Project.

SEE Civil and RMS will undertake continued consultation with registered Aboriginal parties in accordance with the requirements of Part C of the Ministers Conditions of Approval for the Project. Consultation will include:

- Aboriginal Focus Group (AFG) meetings held every six months.
- A copy of the CEMP will be provided to registered Aboriginal parties for review.

5 Existing environment

The following sections summarise what is known about Aboriginal and non-Aboriginal heritage within and adjacent to the project corridor.

The key reference documents are Chapters 12 and 13 of the EIS and Working Paper: Historic (non-Aboriginal) Heritage Assessment and Working Paper: Aboriginal Cultural Heritage Assessment.

5.1 Aboriginal cultural heritage

5.1.1 Archaeological sites

The Project would have direct impacts on one artefact scatter with Potential Archaeological Deposit (PAD) (AHIMS Site #04-4-0217) at ancillary facility site W2B 11-1a, located at McAndrews Lane, Pimlico.

Further assessment of this site has been undertaken as described in Section 1.2. No Aboriginal objects were identified during the surface survey, the excavation of the test pits or the sieving of the sediment. On this basis it is considered that the impact of the proposed works on Aboriginal objects will be nil to the depths tested (approximately 500 millimetres). Where works are required to depths that may impact on potential underlying sands or deposits high in gravel, additional mitigation measures may be required (RPS, 2015).

To minimise potential impacts to Aboriginal objects the ancillary facility site will be built up 500mm with imported fill material. No excavation into natural ground is proposed, all services will be buried in the imported fill material.

Refer to the Sensitive Area Maps included in Appendix A5 of the CEMP.

5.1.2 Cultural sites

No cultural sites were identified through the cultural assessment and consultation process undertaken for the EIS. Refer to the Sensitive Area Maps included in Appendix A5 of the CEMP.

5.2 Non-Aboriginal heritage

No non-Aboriginal heritage items were identified within or adjacent to the Project corridor through the assessment undertaken for the EIS. Refer to Sensitive Area Maps included in Appendix A5 of the CEMP.

Name	Location	Significance

Name	Location	Significance
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6 Environmental aspects and impacts

6.1 Construction activities

Key aspects of the project that could result in adverse impacts to Aboriginal and Non-Aboriginal heritage include:

- Early works including non-substantial construction activities such as services relocations.
- Planned salvage of Aboriginal heritage items.
- Initial clearing and/or grubbing of vegetation.
- Initial removal of topsoil.
- Construction of site compounds and spoil / mulch and / or equipment stockpile areas.
- Temporary access roads during construction.

Refer to Appendix A2 of the CEMP – Aspects and Impacts Register.

6.2 Aboriginal cultural heritage impacts

Table 6-1 summarises identified impacts and management measures in relation to Aboriginal archaeological sites.

Table 6-1 Aboriginal archaeology – impacts and management

Name	Impact	Management
Section 11		
Site W2B 11 – 1a (04-4-0217) Artefact scatter with Potential Archaeological Deposit (PAD)	Direct impact	<p>RPS (2015) management recommendations:</p> <ol style="list-style-type: none"> 1. If, during the proposed works, sands or deposits high in gravel are encountered below the depth of 500 millimetres works should cease in that area until due diligence has been implemented to reduce the risk of impact to unexpected finds. 2. All relevant RMS staff and contractors should be made aware of their statutory obligations for heritage under the <i>National Parks and Wildlife Act 1974</i> and the <i>Heritage Act 1977</i>, which may be implemented as a heritage induction. 3. This excavation report (RPS 2015) must be kept by RMS so that it can be presented, if needed, as a defence from prosecution under Section 86(2) of the <i>National Parks and Wildlife Act 1974</i>. 4. If unrecorded Aboriginal object/s are identified in the Project Area during works, then all works in the immediate area must cease and the area should be cordoned off. OEH must be notified by ringing the Enviroline 131 555 so that the site can be adequately assessed and managed. 5. In the unlikely event that skeletal remains are identified, work must cease immediately in the vicinity of the remains and the area must be cordoned off. The proponent must contact the local NSW Police who will make an initial assessment as to whether the remains are part of a crime scene or possible Aboriginal remains. If the remains are thought to be Aboriginal, OEH must be contacted by ringing the Enviroline 131 555. An OEH officer will determine if the remains are Aboriginal or not; and a management plan must be developed in consultation with the relevant Aboriginal stakeholders before works recommence.

Name	Impact	Management
		6. If, during the course of development works, suspected historic cultural heritage material is uncovered, work should cease in that area immediately. The Heritage Branch, Office of Environment and Heritage (Enviroline 131 555) should be notified and works only recommence when an approved management strategy has been developed.

Name	Impact	Management
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6.3 Non-Aboriginal heritage impacts

No non-Aboriginal heritage items were identified within or adjacent to the Project corridor through the assessment undertaken for the EIS. Refer to Sensitive Area Maps included in Appendix A5 of the CEMP.

7 Environmental mitigation and management measures

A range of environmental requirements and control measures are identified in the various environmental documents, including the EIS, supplementary assessments, Conditions of Approval and other Roads and Maritime documents. Specific measures and requirements to address impacts on Aboriginal and non-Aboriginal heritage are outlined in Table 7-1.

Table 7-1 Heritage management and mitigation measures

ID	Measure / Requirement	Resources needed	When to implement	Responsibility	Reference
GENERAL ABORIGINAL HERITAGE MANAGEMENT / MITIGATION MEASURES					
General impacts to Aboriginal archaeological sites					
AH1	Where artefact concentrations per square metre (over all depths) encountered are 50 per cent greater than previously encountered, additional salvage excavation using hand tools would be undertaken. If these artefact concentrations are encountered during machine excavation, then machine excavation would stop within 20 metres of the artefact concentrations. Up to, but no more than, an additional six square metres would be excavated in this situation at that site, unless rare features are encountered, in which case discussions with the registered Aboriginal stakeholders and NSW Office of Environment and Heritage would be undertaken to agree on a suitable approach.		Pre-construction / Construction	Environment Manager / Project Archaeologist / Foreman	Submissions / PIR (AH1)
AH2	For areas avoided by construction, exclusion zones would be put in place to ensure archaeological deposits are not incidentally damaged. These would be fenced with parawebbing or some other similar fencing that would exclude entry by people or plant to avoid incidental impacts on the site.		Construction	Environment Manager / Foreman	Submissions / PIR (AH2)
AH3	If any part of the project (such as an ancillary facility) is located in an area which has not been subject to Aboriginal heritage field survey and assessment, an assessment will be undertaken before that part of the project proceeds.		Pre-construction		Submissions / PIR (AH3)
AH4	Salvage excavation and systematic collection of previously recorded artefacts that would be impacted by the project, along with any other impacted sites that are identified prior to or during construction, to be undertaken by qualified archaeologists in conjunction with the registered Aboriginal stakeholders. <ul style="list-style-type: none"> The location of excavations would be within the area of the site to be impacted, and would be decided upon in the field by a qualified archaeologist and registered 		Construction	Environment Manager / Project Archaeologist	Submissions / PIR (AH4)

ID	Measure / Requirement	Resources needed	When to implement	Responsibility	Reference
	<p>Aboriginal stakeholders.</p> <ul style="list-style-type: none"> If any datable material is located, a minimum of two samples (per archaeological site) would be subject to either radiocarbon, standard or accelerated mass spectrometry dating. For all salvaged material, suitable storage would be agreed upon with the registered Aboriginal stakeholders prior to commencing salvage in those areas. 				
AH5	Curation of any collected heritage evidence in an appropriate manner, as determined in consultation with the registered Aboriginal stakeholders and the NSW Office of Environment and Heritage and in accordance with the National Parks and Wildlife Act 1974, details of the material's nature and context would also be provided.		Construction / Post-construction	Environment Manager / Project Archaeologist	Submissions / PIR (AH5)
AH6	Preparation of a detailed technical report documenting the results of the salvage excavations and the archaeological material analysis. Development of a summary report (to be made public) to accompany the technical report.		Construction / Post-construction	Environment Manager / Project Archaeologist	Submissions / PIR (AH6)
AH7	Lodgement of site records with NSW Office of Environment and Heritage for any previously unrecorded Aboriginal heritage evidence that is identified and for any evidence that is salvaged.		Construction and post-construction	Environment Manager / Project Archaeologist	Submissions / PIR (AH7)
Human skeletal remains					
AH8	<p>In the event that the project reveals possible human skeletal remains, the following procedure would be followed (in accordance with RMS' Standard Management Procedures: Unexpected Archaeological Finds 2011 as provided in Appendix C):</p> <ul style="list-style-type: none"> As soon as remains are exposed, all construction would halt at that location immediately and the onsite supervisor would be immediately notified to allow assessment and management. The on-site supervisor would notify the Environmental Representative, RMS Project Manager and RMS 	RMS Standard Management Procedure – Unexpected Archaeological Finds (Refer Appendix C)	Construction	All personnel and subcontractors	Submissions / PIR (AH8) G36 Section 4.9

ID	Measure / Requirement	Resources needed	When to implement	Responsibility	Reference
	<p>Senior Environmental Officer. Police, EPA (Environment Line on 131 555) and the Heritage Branch ((02) 9873 8500) would also be contacted.</p> <ul style="list-style-type: none"> • A physical or forensic anthropologist would inspect the remains in situ (organised by the police unless otherwise directed by the police) and make a determination of ancestry (Aboriginal or non-Aboriginal) and antiquity (pre-contact, historic or forensic). • Should the remains be identified as a forensic matter (ie crime scene), liaison with the police would be undertaken. • Should the remains be identified as Aboriginal, liaison with RMS, the EPA, the Department of Planning and Infrastructure (DP&I) and registered Aboriginal stakeholders would be undertaken. • Should the remains be identified as non-Aboriginal (historical), liaison with RMS, the Heritage Branch and the DP&I would be undertaken. • No construction is to recommence in the area until appropriate clearances have been given. 				
Aboriginal stakeholder consultation					
AH9	Aboriginal focus group consultation (through letters or meetings), would occur at least once every six months, prior to and during construction (unless management actions have been completed). Evidence of Aboriginal focus group consultation must be provided.		Pre-construction / Construction	Environment Manager	Submissions / PIR (AH9)
AH10	Further consultation with the registered Aboriginal stakeholders in relation to the project to provide them with the opportunity to be involved in the ongoing management of the Aboriginal heritage resource within the project boundary.	Procedure for Aboriginal Cultural Heritage Consultation and Investigation	Construction / Post-construction	Environment Manager	Submissions / PIR (AH10)
Awareness of Aboriginal heritage					
AH11	Aboriginal culture awareness training for all relevant staff and contractors prior to commencing work on-site in accordance with the Aboriginal heritage and education	Heritage education and training package (refer Appendix B)	Pre-construction / Construction	Environment Manager	Submissions / PIR (AH11) G36 Sections 4.9

ID	Measure / Requirement	Resources needed	When to implement	Responsibility	Reference
	<p>training package provided in Appendix B.</p> <p>This could include information about the Aboriginal culture and history of the locality, nature of the identified and potential Aboriginal heritage evidence and cultural values within the project boundary, heritage management measures and protocols, and legal obligations. This service would be provided by suitably trained personnel from local Aboriginal organisations represented by the relevant registered stakeholders for that area.</p>				
AH12	<p>Implement the Aboriginal heritage interpretation strategy provided in Appendix A.</p> <p>This Plan will identify how archaeological and cultural information can be sustainably communicated to different audiences, including the local Aboriginal community, the local general public and the broader group of people interested in Aboriginal heritage as part of the North Coast's history. Measures would include opportunities for promoting salvage and investigation, the recovery of information, permanent installations and ways of marking the presence of Aboriginal people in the landscape, including, signage, interpretation products such as written materials, and through place naming.</p>		Pre-construction / Construction	Environment Manager	Submissions / PIR (AH12)
AH13	<p>Compliance auditing of the cultural heritage management measures will be undertaken as part of the environmental management audit regime.</p>		Pre-construction / Construction	Environment Manager	Submissions / PIR (AH13)
Ancillary facilities					
AH14v	<p>Ancillary facility - Section 11, Site 1a:</p> <ul style="list-style-type: none"> The ground will be inspected for any Aboriginal archaeological material by an archaeologist and registered Aboriginal stakeholders during and following clearing activities. Any archaeological material will be recorded, removed from the Aboriginal archaeological site, and a suitable location for the material determined in consultation with the stakeholders. An AHIMS record will be submitted for any finds and any locations where the material is to be 	<p>Ancillary site 11-1a, McAndrews Lane, Pimlico Report on the results of test excavation (RPS, 2015)</p>	Pre-construction and construction		Submissions / PIR (AH14v)

ID	Measure / Requirement	Resources needed	When to implement	Responsibility	Reference
	stored – unless reburied on or near Aboriginal archaeological site, establishing a care agreement will also be necessary.				

SITE SPECIFIC ABORIGINAL HERITAGE MANAGEMENT / MITIGATION MEASURES

Impacts on Aboriginal archaeological sites

AH15	<p>Prior to the commencement of construction affecting PAD site WWC Dirty Creek 1 and ancillary facilities at Section 4, Site 1; Section 4, Site 3; Section 7, Site 1; Section 10, Site 1a; and Section 11, Site 1a, the Applicant shall:</p> <ul style="list-style-type: none"> a) undertake field investigation, and where required, an archaeological investigation of the site(s) using a methodology generally consistent with testing undertaken for the Environmental Impact Statement, and prepared in consultation with the OEH (Aboriginal heritage) and the relevant Registered Aboriginal Parties; and b) prepare a report on the results of the archaeological investigation, including recommendations (such as for further archaeological work) in consultation with the OEH and to the satisfaction of the Secretary, and shall include, but not necessarily be limited to: <ul style="list-style-type: none"> i. consideration of measures to avoid or minimise disturbance to Aboriginal objects where objects of moderate to high significance are found to be present; ii. recommendations for any further investigations under condition B46 where impacts cannot be avoided; and iii. details of management and mitigation measures to ensure there are no additional impacts due to pre-construction and construction activities; and c) submit the report to the relevant Registered Aboriginal Parties, the OEH (Aboriginal heritage) and the Secretary. 	Ancillary site 11-1a, McAndrews Lane, Pimlico Report on the results of test excavation (RPS, 2015)	Pre-construction	Environment Manager / Project Archaeologist	CoA B44
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ID	Measure / Requirement	Resources needed	When to implement	Responsibility	Reference
AH16	<p>Prior to the commencement of construction activities affecting Aboriginal sites WWC39, WWC46, Tyndale 2 site, IR2W4, Site 11, E2/2, WWC37, Dubaljeen site (New Italy 1), The Gap Road 1, WX21 Site 8, Site 1, Site 2, Site 3 and Site 4 and sites recommended by condition B44 for further investigation, the Applicant shall:</p> <p>a) develop a detailed salvage strategy, prepared in consultation with the OEH (Aboriginal heritage) and the Aboriginal stakeholders. The salvage strategy shall be prepared to the satisfaction of the Secretary; and</p> <p>b) undertake any further archaeological excavation works recommended by the results of the detailed salvage strategy.</p> <p>Within twelve months of completing the above work, unless otherwise agreed by the Secretary, the Applicant shall prepare a report containing the findings of the excavations, including artefact analysis and Aboriginal Site Impacts Recording Forms (ASIR), and the identification of final storage location for all Aboriginal objects recovered (testing and salvage), in consultation with the relevant Registered Aboriginal Parties, the OEH (Aboriginal heritage) and to the satisfaction of the Secretary.</p> <p>The report shall be submitted to the relevant Registered Aboriginal Parties, the OEH (Aboriginal heritage) and the Secretary.</p> <p><i>Note:</i></p> <p><i>Where archaeological testing has occurred as part of the environmental assessment and the results are included in the documents referred to in condition A2, the sites tested shall be included in the final report prepared under condition B46.</i></p>	Ancillary site 11-1a, McAndrews Lane, Pimlico Report on the results of test excavation (RPS, 2015)	Pre-construction	Environment Manager / Project Archaeologist	CoA B45

Direct impacts on culturally significant places

GENERAL NON-ABORIGINAL HERITAGE MANAGEMENT / MITIGATION MEASURES

Unidentified historical heritage materials, features and/or deposits

ID	Measure / Requirement	Resources needed	When to implement	Responsibility	Reference
HH1	If at any time during construction associated with the project, unidentified historical heritage materials, features and/or deposits are found, the NSW Roads and Maritime Services' Standard Management Procedure: Unexpected Archaeological Finds (2011) provided in Appendix C would be followed	RMS Standard Management Procedure – Unexpected Archaeological Finds (Refer Appendix C)	Construction	All personnel and subcontractors	Submissions / PIR (HH1)G36 Section 6.13 and 6.14
Awareness of non-Aboriginal heritage items					
HH2	Contractors would be given awareness training on non-Aboriginal historical heritage in accordance with the Heritage Education and Training Package provided in Appendix D prior to commencement of construction works to ensure understanding of potential heritage items and the procedure in the event of discovery of historical heritage materials, features or deposits, or the discovery of human remains.	Heritage education and training package (refer Appendix D)	Construction	Environment Manager	Submissions / PIR (HH2)G36 Sections 4.10
HH3	The Construction Heritage management plan will be developed in consultation with the Heritage Council of NSW.		Construction		Submissions / PIR (HH3) CoA B55, CoA D26(d)
HH4	This approval does not allow the Applicant to destroy, modify or otherwise physically affect human remains as part of the SSI. The Applicant shall not destroy, modify or otherwise physically affect any heritage items outside the SSI footprint, unless otherwise agreed by the Secretary in accordance with condition B54.		Pre-construction / Construction		CoA B53, CoA B54
Ancillary facilities					
HH5	Where local or state significant heritage items not previously identified are identified on an ancillary site and use of the site will impact on the heritage significance of the item, the site will not be used for ancillary facilities.			Environment Manager / Project Archaeologist / Construction Manager	Submissions / PIR (HH7)

ID	Measure / Requirement	Resources needed	When to implement	Responsibility	Reference
HH6	<p>Where local or state significant heritage items are identified on an ancillary site and use of the site will not impact on the heritage significance of the item, appropriate management measures (such as barrier fencing) will be put in place to clearly identify the heritage item and exclude use of the ancillary site within the heritage item's curtilage. Use of these ancillary facilities may commence:</p> <ul style="list-style-type: none"> • When the appropriate protective measures have been implemented. • When the relevant records have been updated and/or completed. 			Environment Manager / Project Archaeologist / Superintendent / Foreman	Submissions / PIR (HH8)
HH7	Any new ancillary facility and spoil placement locations not identified as part of this EIS will require a non-Aboriginal heritage assessment, with a database search and site walkover to identify any potential heritage items. If items are found, HH4, HH7-HH8 will be followed.			Environment Manager / Project Archaeologist	Submissions / PIR (HH9)

SITE-SPECIFIC NON-ABORIGINAL HERITAGE MANAGEMENT / MITIGATION MEASURES

8 Compliance management

8.1 Roles and responsibilities

The SEE Civil Project Team's organisational structure and overall roles and responsibilities are outlined in Section 4.2 of the CEMP. Specific responsibilities for the implementation of environmental controls are detailed in Section 7 of this Plan.

8.2 Training

All employees, contractors and utility staff working on site will undergo site induction training relating to Aboriginal and non-Aboriginal heritage management issues. The induction training will address elements related to heritage management including:

- Existence and requirements of this sub-plan.
- Relevant legislation.
- Roles and responsibilities for heritage management.
- Location of identified heritage sites.
- Proposed heritage management and protection measures.
- Procedure to follow in the event of an unexpected heritage item find during construction works (**RMS Standard Management Procedure – Unexpected Archaeological Finds** (November 2011) (refer Appendix C)).
- Procedure to follow in the event of discovery of human remains during construction works (**RMS Standard Management Procedure – Unexpected Archaeological Finds** (November 2011) (refer Appendix C)).

Further details regarding staff induction and training are outlined in Section 5 of the CEMP.

The Aboriginal Heritage Education and Training Package for the project is included in Appendix B. The non-Aboriginal Heritage Education and Training Package for the project is included in Appendix D.

8.3 Monitoring and inspections

Inspections of sensitive areas and activities with the potential to impact Aboriginal and non-Aboriginal heritage will occur for the duration of the project. Some specific monitoring requirements in relation to some items have been documented in Table 7-1.

Requirements and responsibilities in relation to monitoring and inspections are documented in Sections 8.1 and 8.2 of the CEMP.

8.4 Auditing

Audits (both internal and external) will be undertaken to assess the effectiveness of environmental controls, compliance with this plan, CoA and other relevant approvals, licenses and guidelines.

Audit requirements are detailed in Section 8.3 of the CEMP.

8.5 Reporting

Reporting requirements and responsibilities are documented in Section 8.3 of the CEMP.

In accordance with Section 5.1 of the CEMP, all personnel (including sub-contractors) are required to attend a compulsory site induction that includes an environmental, including

heritage, component prior to commencement on-site. A record of all environment inductions will be maintained and kept on-site.

Details on the Aboriginal heritage education and training package are documented in Appendix B to this Plan. Details on the non-Aboriginal heritage education and training package are documented in Appendix D to this Plan.

9 Review and improvement

9.1 Continuous 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.

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 and targets.

9.2 CHMP update and amendment

The processes described in Chapter 8 and Chapter 9 of the CEMP may result in the need to update or revise this Plan. This will occur as needed.

Any revisions to the CHMP will be in accordance with the process outlined in Section 1.6 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 – refer to Section 10.2 of the CEMP.

Appendix A

Aboriginal heritage interpretation strategy

Appendix B

Aboriginal heritage education and training package

Appendix C

RMS Standard Management Procedure –
Unexpected Archaeological Finds (July 2012)

Appendix D

Heritage education and training package

Appendix E

Meeting Minutes Aboriginal Focus Group:
Woodburn to Ballina