

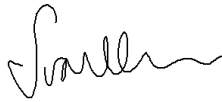
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NARRABRI MINE

ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

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Acronyms and abbreviations

Acronym	Description
ACHA	Aboriginal Cultural Heritage Assessment
ACHMP	Aboriginal Cultural Heritage Management Plan (this document)
AHIMS	Aboriginal Heritage Information Management System
ATSIHP Act	<i>Aboriginal and Torres Strait Islander Heritage Protection Act 1984</i> (Cth)
BOA	Biodiversity Offset Area
CCC	Community Consultative Committee
CoC	Conditions of Consent
Cth	Commonwealth
DECCW	The former NSW Department of Environment, Climate Change and Water
DPE	NSW Department of Planning and Environment
EIS	Environmental Impact Statement
EL	Exploration licence
EPA	NSW Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i> (NSW)
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2021</i> (NSW)
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth)
EPL	Environment Protection Licence
GHGE	Greenhouse Gas Emissions
GNAC	Gomeroi Narrabri Aboriginal Corporation
GSC	Gunnedah Shire Council
HSE	Health, Safety & Environment
IEA	Independent Environmental Audit
km	kilometre
LW	longwall panel
m	metre
ML	Mining lease
MLA	Mining lease application
Mt	million tonnes
Mtpa	million tonnes per annum
NLALC	Narrabri Local Aboriginal Land Council
NCOPL	Narrabri Coal Operations Pty Ltd
NP&W Act	<i>National Parks and Wildlife Act 1974</i> (NSW)
NSC	Narrabri Shire Council

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Acronym	Description
NSW	New South Wales
OEH	The former NSW Office of Environment and Heritage
RAP	Registered Aboriginal Party
ROM	run of mine
SEARs	Secretary's Environmental Assessment Requirements
SSD	State Significant Development
WHC	Whitehaven Coal Limited

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1. Introduction

1.1 Background

The Narrabri Mine is an existing underground coal mining operation situated in the Gunnedah Coalfield, approximately 25 kilometres (**km**) southeast of Narrabri and approximately 60 km northwest of Gunnedah, within the Narrabri Shire Council (**NSC**) Local Government Area, in New South Wales (**NSW**). It is operated by Narrabri Coal Operations Pty Ltd (**NCOPL**), on behalf of the Narrabri Mine Joint Venture¹, which consists of two Whitehaven Coal Limited's (**WHC**) wholly owned subsidiaries, and other joint-venture partners.

Stage 1 was approved in November 2007 (as PA 05_0102) under Part 3A of the *Environmental Planning and Assessment Act 1979* (**EP&A Act**). Development of Stage 1 included site establishment and the construction of coal processing infrastructure commencing in 2008, with production using continuous miner mining methods up to 2.5 million tonnes per annum (**Mtpa**) commencing in 2010.

Project Approval 08_0144 for Stage 2 of the Narrabri Mine was issued under Part 3A of the EP&A Act in 2010, which allowed the Narrabri Mine to convert to a longwall mining operation to extract coal from the Hoskissons Coal Seam. Project Approval 08_0144 allowed for the production and processing of up to 11 Mtpa of Run of Mine (**ROM**) coal until July 2031. Approval under the *Environment Protection and Biodiversity Conservation Act 1999* (**EPBC Act**) was granted on 21 January 2011 (**EPBC 2009/5003**) and the Narrabri Mine converted to a longwall mining operation within Mining Lease 1609, in 2012. Following the determination of Stage 2, PA 05_0102 for Stage 1 was surrendered on 2 August 2011.

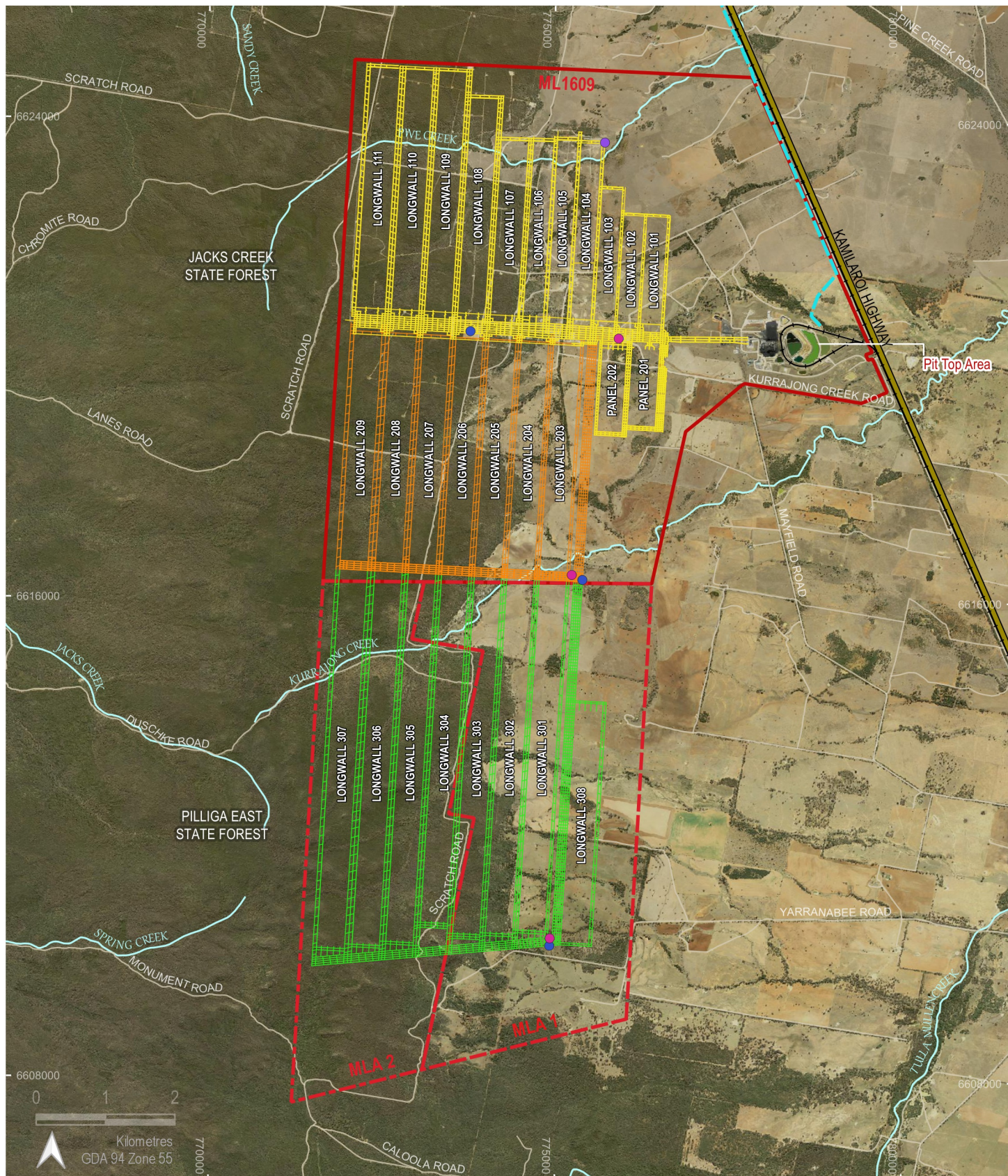
The Narrabri Underground Mine Stage 3 Extension Project (**Stage 3**) involves a southern extension to the previously approved Stage 2 mining area (approximately 609 ha of additional surface development footprint) to gain access to additional areas of coal reserves within Mining Lease Application (**MLA**) 1 and 2, an increase in the mine life to 2044, and the development of supporting surface infrastructure. Bord and pillar mining operations for panels LW 201 and LW 202 were previously approved as modification 7 (Mod 7) to PA 08_0144.

The Stage 3 Extension Project State Significant Development (**SSD**) was granted approval under section 4.38 of the EP&A Act on 1 April 2022, following the determination by the Independent Planning Commission (**SSD-10269**). Approval under the EPBC Act (**EPBC 2019/8427**) is pending.

Under the Stage 3 SSD-10269 Conditions of Consent (**CoC**), NCOPL is required to surrender PA 08_0144 no more than 12 months from the date of commencement of the Stage 3 development in accordance with the *Environmental Planning and Assessment Regulation 2021* (**EP&A Regulation**). Until then, the CoC prevail to the extent of any inconsistency with the conditions of PA 08_0144.

The Narrabri Mine underground mining layout is shown in Figure 1-1 and surface development footprint is shown in Figure 1-2.

¹ For full details on the joint venture ownership, refer to the introduction of the Environmental Management Strategy.

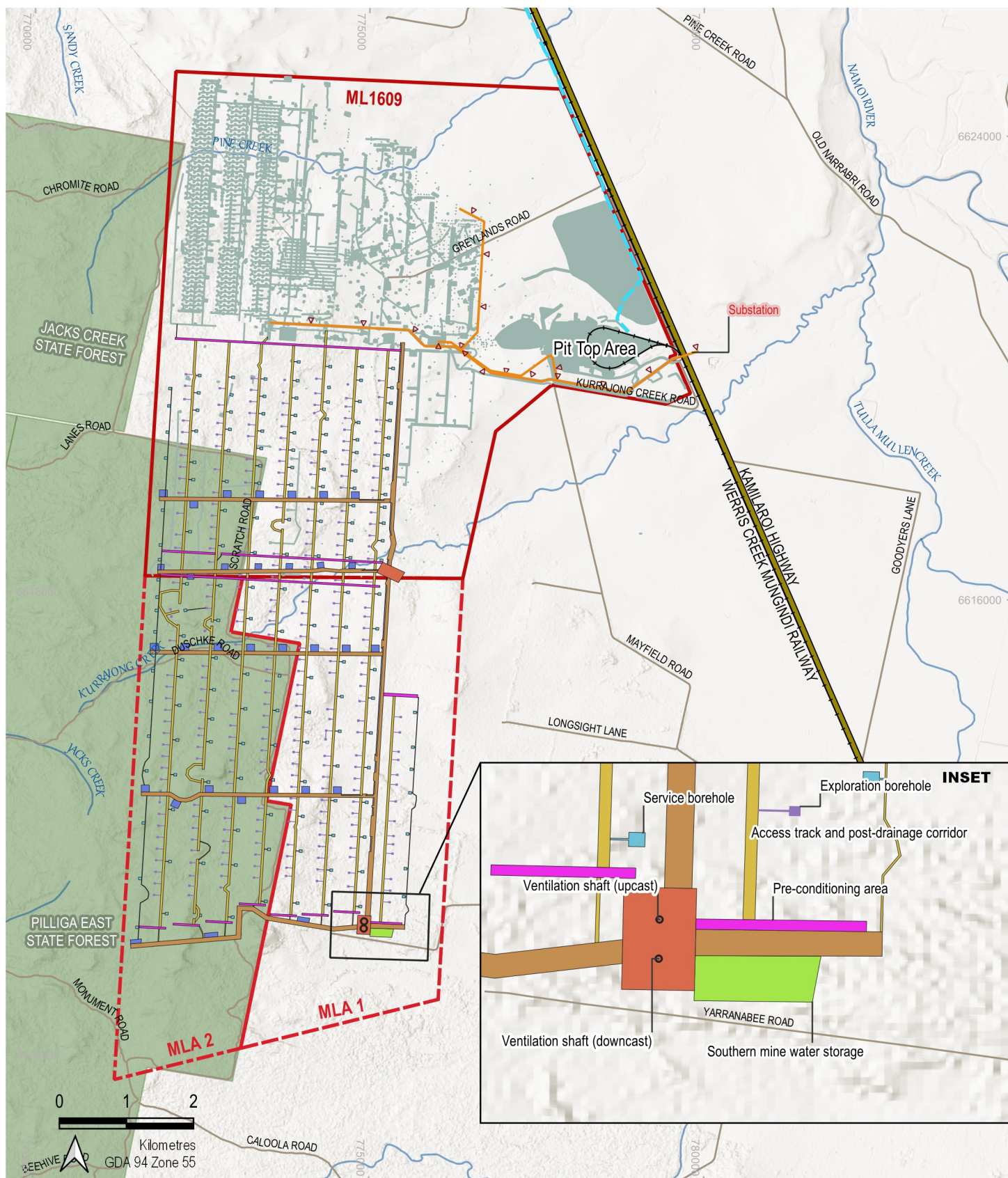


LEGEND

- | | |
|--|---|
| ■ ML1609 | ● Ventilation complex (downcast) |
| ■ MLA1 | ● Ventilation complex (upcast) |
| ■ MLA2 | ● Ventilation complex (upcast - decommissioned) |
| — Namoi River pipeline (buried) | — Highway |
| — Stage 2 underground mining layout | — Road |
| — Stage 3 - 200 series underground mining layout | — Watercourse |
| — Stage 3 - 300 series underground mining layout | — Railway |

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FIGURE 1-1
Underground Mining Layout



LEGEND

	ML 1609		Stage 2 surface development
	MLA1		Access track and post-drainage corridor
	MLA2		Exploration borehole
	State forest		Pre-conditioning area
	Namoi River pipeline (buried)		Service borehole
	Electricity transmission line (constructed)		Service borehole and power reticulation
	Highway		Services corridor
	Road		Southern mine water storage
	Watercourse		Ventilation complex
	Railway		

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FIGURE 1-2
Surface Development Footprint

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1.2 Purpose and scope

This Aboriginal Cultural Heritage Management Plan (**ACHMP** or **Plan**) has been developed in accordance with CoC B51, the applicable Commonwealth and NSW State regulatory framework and the requirements of the Registered Aboriginal Parties (**RAPs**).

This ACHMP incorporates site protection measures associated with the Narrabri Mine approved disturbance areas and any identified Aboriginal object located outside of the approved disturbance areas, beyond those predicted in Stage 3 Environmental Impact Statement (**EIS**). It defines the tasks, scope and conduct of all Aboriginal cultural heritage management activities to ensure compliance with the CoC and will remain in place for the life of mine.

This ACHMP describes how the impact of activities required for the Narrabri Mine on Aboriginal cultural heritage will be managed such that, to the greatest extent possible, there is no impact on Aboriginal cultural heritage. Where the impact cannot be avoided, the impact on any Aboriginal cultural heritage will be minimised, and other reasonable and feasible management measures, as appropriate, will be implemented to minimise or mitigate harm.

In accordance with CoC B52, NCOPL will not commence construction until this Plan is approved by the Planning Secretary. And as required by CoC B53, NCOPL will implement the ACHMP as approved by the Planning Secretary. Until this approval, the existing ACHMP, approved under Project Approval 08_0144, will continue to apply as required by CoC A25.

This Plan forms part of the Narrabri Mine Environmental Management System and is supported by the Environmental Management Strategy (**EMS**) required under CoC E1. In relation to conditions A22 and C8, a separate Aboriginal Heritage Management Plan is prepared specifically as part of each Extraction Plan.

1.3 Objectives

The objectives of this ACHMP are to:

- provide detail of the relevant statutory requirements, including any relevant approval, licence or lease conditions;
- provide detail on the predicted impacts on Aboriginal cultural heritage sites and values;
- describe the management and mitigation measures to protect, monitor and manage Aboriginal cultural heritage sites and values within the approved disturbance area and surrounds in accordance with the Environmental Assessment, to ensure compliance with the Aboriginal cultural heritage-related operating conditions of the CoC;
- provide a precise set of procedures and protocols to carry out:
 - appropriate archaeological investigation and recording of all identified Aboriginal objects within the approved disturbance areas, with a particular focus on site Mayfield GG01; and
 - management activities for the protection and conservation of tangible and intangible cultural heritage values within the mine site, including ongoing consultation with the RAPs.
- provide for the management of suspected human remains and any new Aboriginal objects, including provisions for burials, over the life of mine;
- detail how NCOPL intend to maintain and manage reasonable access for relevant Aboriginal stakeholders to visit Aboriginal objects and Aboriginal places located on mine-owned land;

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- provide a strategy for the care, control and storage of Aboriginal objects salvaged on the site, both during the life of the development and in the long-term;
- describe the protocol for managing and reporting any incident, non-compliance or exceedance of any impact assessment or performance criterion, complaint, or failure to comply with other statutory requirements;
- detail the regulatory reporting requirements;
- describe the NCOPL training and awareness requirements to ensure all workers receive suitable Aboriginal cultural heritage training/inductions prior to carrying out any activities which may cause impacts to Aboriginal objects or Aboriginal places;
- describe the protocol for periodic review of this Plan; and
- identify the roles and responsibilities for implementation of this Plan.

1.4 Preparation and consultation

This Plan has been prepared by Mr. Servaes van der Meulen and Mr. Mark Vile of Onward Consulting Pty Ltd, who are qualified and competent environmental practitioners with more than 20 years' experience each.

Dr Matthew Whincop contributed specialist technical input in the preparation of this Plan. Dr Whincop has a PhD in Archaeology and is the Director of Whincop Archaeology Pty Ltd.

Considering their individual and combined industry knowledge and professional expertise, Servaes, Mark, and Matthew are deemed to be suitably qualified and experienced for the preparation of this Plan, as required by CoC B51(a).

In accordance with CoC A20 and CoC B51(b), a draft ACHMP (Revision A) was provided to the RAPs on 20 May 2022. The current RAP list includes:

- Gomeroi Narrabri Aboriginal Corporation (GNAC);
- Narrabri Local Aboriginal Land Council (NLALC);
- AGA Culture Services (Ashley Sampson);
- Cacatua General Services (George Sampson);
- Michael John Long (White Cockatoo);
- Michael Ronald Long (Junior);
- Kerry Morgan Fernando;
- Brian Draper;
- Aaron Talbott;
- David Horton; and
- Leslie "Uncle Jacko" Woodridge.

NCOPL received three email responses with no comment on the ACHMP from three RAPs (NLALC, Michael John Long [White Cockatoo]; and David Horton).

In accordance with CoC A20 and B51(b), a draft ACHMP (Revision A) was also provided to Heritage NSW on 24 June 2022 for review and comment. Heritage NSW provided seven recommendations on the draft ACHMP.

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Appendix A provides evidence of the consultation process, including a RAP consultation log (Table A-1) and a cross reference table addressing the Heritage NSW recommendations and section of the Plan where the recommendations have been addressed (Table A-2 and Table A-3).

1.5 Access to information

In accordance with CoC E17(a)(iii), the ACHMP will be made publicly available on the WHC website following approval by the Department of Planning and Environment (**DPE**). Any subsequent revision of the ACHMP approved by the DPE will be made publicly available on the website, and the superseded version will be removed to ensure the information is kept up to date in accordance with CoC E17(b). A copy of this Plan will also be kept on the Narrabri Mine site server. Any printed copies of this Plan are uncontrolled.

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2. Roles and responsibilities

All NCOPL employees and contractors (and their sub-contractors) are responsible for the environmental performance of their activities and for complying with all legal requirements and obligations. All personnel will be required to comply with the statutory approval requirements of the activities they undertake, and any potential environmental impacts from all activities will be managed in accordance with the relevant strategies, plans and programs.

In accordance with CoC E1, the EMS sets out the roles, responsibilities, authorities, and accountabilities of all key personnel involved in the environmental management of operations at Narrabri Mine, which encompasses the requirements and obligations under this ACHMP.

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3. Statutory requirements

3.1 Environment Protection and Biodiversity Conservation Act 1999 (Cwlth)

The EPBC Act establishes the National Heritage List, which includes natural, Indigenous, and historic places that are of outstanding heritage value to the nation. Under the EPBC Act, there are penalties for anyone who takes an action that has or will have a significant impact on the Indigenous heritage values of a place that is recognised in the National Heritage List.

The Act also establishes the Commonwealth Heritage List, which includes places on Commonwealth lands and waters or under Australian Government control that have Indigenous heritage significance. In addition, the Act protects heritage on Commonwealth land and from actions undertaken by the Commonwealth.

3.1.1 EPBC Act approvals

The Stage 3 Project was deemed a controlled action on 30 September 2019 (**EPBC 2019/8427**). The proposed action under EPBC 2019/8427 excludes the Stage 2 Narrabri Mine longwall mining operations, which was granted EPBC Act approval in 2011 (**EPBC 2009/5003**) (last varied on 24 March 2021).

3.2 Environmental Planning and Assessment Act 1979

The EP&A Act provides the statutory basis and framework for planning and environmental assessment in NSW. The EP&A Act includes provisions to ensure that the potential environmental impacts of a development are assessed and considered in the decision-making process. Stage 3 is permissible with development consent under the *State Environmental Planning Policy (Resources and Energy) 2021* and is identified as 'State Significant Development' under section 4.38 of the EP&A Act, and Clause 8 and Schedule 1 of the *State Environmental Planning Policy (Planning Systems) 2021*.

3.2.1 Project approval and development consent

The Stage 3 Extension Project (SSD 10269) was approved on 1 April 2022. The Narrabri Mine also incorporates the development formerly authorised under Project Approval 08_0144, until such time as this development consent is surrendered, in accordance with CoC A16.

In accordance with CoC E5(b), Appendix B, Table B-1 provides a summary of the relevant CoC relating to Aboriginal cultural heritage and outlines the section of the ACHMP in which each of these conditions have been addressed.

In accordance with CoC E5(c), Appendix C, Table C-1 provides a summary of the relevant commitments or recommendations within the EIS relating to Aboriginal cultural heritage and outlines the section of the ACHMP in which each of these commitments have been addressed. These relevant commitments or recommendations include those as amended or added to by the:

- Applicant's Submission Report submitted 31 May 2021;
- Applicant's Amendment Report submitted 31 May 2021; and
- Applicant's final Biodiversity Development Assessment Report dated September 2021.

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3.3 Mining Act 1992

The *Mining Act 1992* (**Mining Act**) provides an integrated framework for the effective regulation of authorisations for prospecting and mining operations and compensation to landholders for loss or damage resulting from such operations. The Act also encourages ecologically sustainable development by ensuring mineral resources are identified and developed in ways that minimise impacts on the environment.

The *Native Title Act 1993* (Cwlth), in conjunction with the Mining Act (where applicable), will be complied with in relation to the mining lease.

3.3.1 Mining lease

NCOPL are the holder of Mining Lease 1609 (**ML 1609**) issued in January 2008. NCOPL are required to implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.

This Plan will be updated with any relevant conditions associated with future mining leases once these have been granted.

3.4 National Parks and Wildlife Act 1974

The protection of Aboriginal cultural heritage in NSW is principally governed by the *National Parks and Wildlife Act 1974* (**NP&W Act**), which is administered by the Minister for Environment and Heritage under the DPE.

As detailed in Section 4.41 of the EP&A Act, an Aboriginal Heritage Impact Permit under section 90 of the NP&W Act is not required for an SSD authorised by a development consent granted under Division 4.7 of Part 4. In these cases, Aboriginal cultural heritage is managed in accordance with the CoC which requires the preparation of an ACHMP.

The NP&W Act is supported by the *National Parks and Wildlife Regulation 2019* (**NP&W Regulation**).

NCOPL is committed to avoiding destruction, damage or defacement of any known Aboriginal objects as defined under the NP&W Act.

3.5 Native Title Act 1993 (Cwlth)

The *Native Title Act 1993* provides a mechanism to determine whether Native Title exists and what the rights and interests are that comprise that Native Title. The process is designed to ensure that Indigenous people who claim to have an interest in a parcel of land have the opportunity to express this interest formally, and to negotiate with the Commonwealth government and the applicant about the proposed grant or renewal of a mining tenement, or consent to access Native Title land.

The *Native Title Act 1993*, where applicable, will be complied with in relation to the mining lease.

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3.6 Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Cwlth)

The *Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (ATSIHP Act)* protects areas and objects that are of particular significance to Indigenous people. The ATSIHP Act allows the Environment Minister, on the application of an Aboriginal person or group of persons, to make a declaration to protect an area, object or class of objects from a threat of injury or desecration. There are no areas, objects or class of objects within or adjacent to the Narrabri Mine that are protected under the ATSIHP Act.

3.7 Aboriginal Land Rights Act 1983

Part 7 of the *Aboriginal Land Rights Act 1983* provides for the constitution, objects, and functions for Aboriginal Land Councils in NSW. The Act provides a mandate for the development of land rights for Aboriginal people in NSW, in conjunction with a network of Local Aboriginal Land Councils through:

- land acquisition either by land claim or purchase;
- establishment of commercial enterprises and community benefit schemes to create a sustainable economic base for Aboriginal communities; and
- maintenance and enhancement of Aboriginal culture, identity, and heritage (including the management of traditional sites and cultural materials within NSW).

Consultation throughout all stages of mine development has been conducted with the Narrabri Local Aboriginal Land Council (**NLALC**). The NLALC will be actively consulted regarding mine operations and rehabilitation activities that may have an impact on Aboriginal cultural heritage values.

3.8 Relevant guidelines, codes, and standards

The following guidelines have been utilised during the preparation of the ACHMP:

- *Dhawura Ngilan: A vision for Aboriginal and Torres Strait Islander heritage in Australia* (Heritage Chairs of Australia and New Zealand 2020);
- *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (Department of Environment, Climate Change and Water [**DECCW**] 2010);
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010);
- *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW 2010);
- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011);
- *The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance* (Australia International Council on Monuments and Sites 2013);
- *Aboriginal Cultural Heritage: Standards and Guidelines Kit* (NSW National Parks and Wildlife Service 1997);
- *Ask First: A Guide to Respecting Indigenous Heritage Places and Values* (Australian Heritage Commission 2002);

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- *Engage Early – Guidance for proponents on best practice Indigenous engagement for environmental assessments under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) (Commonwealth Department of Environment and Energy 2016); and*
- *NSW Minerals Industry Due Diligence Code of Practice for the Protection of Aboriginal Objects (NSW Minerals Council 2010).*

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4. Existing environment

4.1 Aboriginal history

Aboriginal people of the Kamilaroi (or Gamilaraay) language group occupied the North West Slopes and Plains at the time of European contact. The territory of the Kamilaroi extended from Singleton in the south to the Warrumbungle Mountains in the west and incorporated areas today associated with Quirindi, Tamworth, Narrabri, Boggabri, Walgett, Moree and Mungindi in northern NSW, as well as some parts of southern Queensland. Tribal boundaries were linked with physiographic features (e.g. mountain ranges) and should not be considered as rigid lines in the landscape.

European observers noted that the Kamilaroi were hunter-fisher-gatherers who appeared to lead a semi-nomadic lifestyle. Much of the country close to the river consisted of open woodland where Aboriginal landscape management practices, such as cold season burn-offs, had modified the landscape to make it more productive (i.e. attracting grazers).

In the past 150 years, pastoralist activities, farming, forestry, mining and other intensive land management practices have combined to significantly alter the fabric of the North West Slopes and Plains landscape. Changes in fire regime have also resulted in the development of more intense bushfires. As a result of these influences, it is likely that the majority of artefact scatters have either been significantly disturbed or eroded, while the potential for traditional scarred trees to survive clearing and logging activities, as well as fire, is considered to be low.

4.2 Natural resources

A variety of natural resources would have been available to the local Aboriginal population. The Kamilaroi caught fish, eels, freshwater crayfish, yabbies, tortoises and freshwater mussels in the Namoi River and other streams and wetlands in the region. Watercrafts were constructed from large slabs of bark cut from river red gum trees.

Reed nets were used to catch birds, whose eggs were also collected. Other animals that Kamilaroi hunted included kangaroos, wallabies, possums, emus, echidnas, lizards, snakes, and frogs. A wide variety of plant foods were also collected, including wild orange, native lime, tubers, yams, and roots.

4.3 Previous archaeological investigations

Since 2007, a number of Aboriginal cultural heritage surveys and assessments have been conducted for the development of Narrabri Mine, as summarised below²:

- 2007 - an initial Aboriginal archaeology survey was conducted for the Pit Top Area to accompany the Stage 1 Narrabri Coal Project Environmental Assessment;
- 2009 - an investigation was then conducted for the initial longwall mining area and associated infrastructure to support the Stage 2 EA;
- 2009 - a comprehensive survey of former longwalls (**LW**) 1 to LW 7 and water pipeline was conducted, as well as preliminary reconnaissance of former LW 8 to LW 26 which were considered as having higher potential for Aboriginal site occurrence and identification;

² all Aboriginal cultural surveys and assessments were undertaken in consultation with the RAPs.

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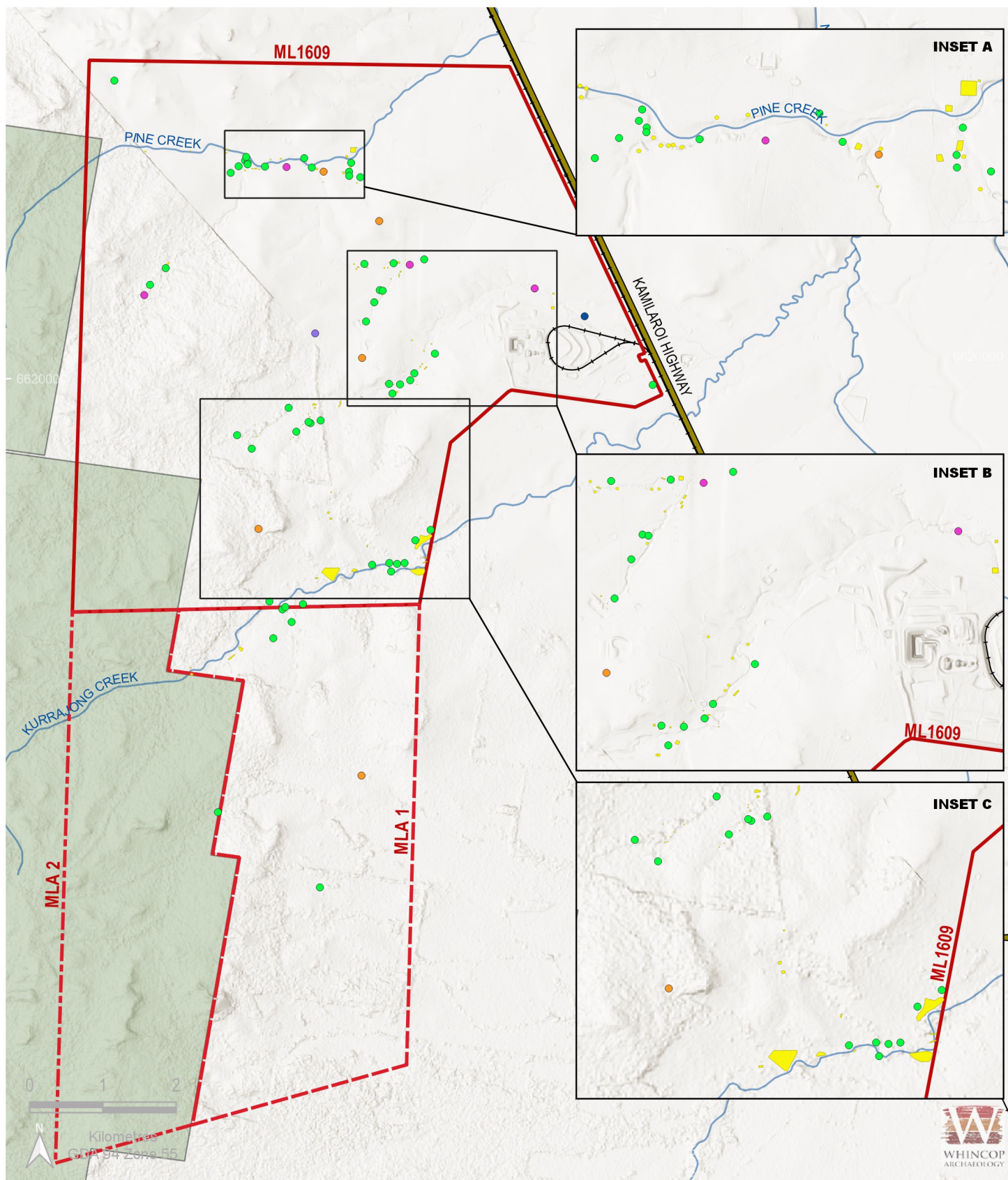
- 2010 - the spatial extent of known Aboriginal sites within former LW 1 to LW 5 was investigated;
- 2012 - followed by another detailed archaeological investigation above former LW 6 and LW 7;
- 2012 - an archaeological survey above former LW 2 and LW 3 to assess potential axe grinding grooves (GGs);
- 2013 - an archaeological survey was conducted above former LW 8 to LW 13 as part of MOD 5;
- 2015 - an Aboriginal Cultural Heritage Assessment (**ACHA**) was then prepared for the Narrabri Mine for MOD 5;
- 2018 - an archaeological survey was conducted above former LW 118 to LW 120;
- 2019 – a comprehensive archaeological survey was undertaken for Stage 3 as part of the EIS with land subject to the proposed expansion. Due to the size and extent of the investigation area, the site was divided into 124 discrete survey units based on property, landform, and accessibility. The ACHA was conducted in accordance with the Stage 3 Secretary's Environmental Assessment Requirements (**SEARs**) over proposed LW 203 to LW 210. The survey was informed by the archaeological predictive model and focused on areas:
 - containing mature native trees in association with the larger creeks and drainage lines; and/or
 - within 200 m of a named watercourse and/or 100 m of a mapped drainage line and/or 50 m of a known Aboriginal cultural heritage site and on slopes no greater than 30°; and/or
 - where sandstone outcrops are likely to occur.

4.4 Aboriginal cultural heritage sites

Recent searches of the Aboriginal Heritage Information Management System (**AHIMS**) database (Search IDs 668925, 668926 and 668940 – see Appendix D) revealed records for 179 locations, of which nine have been salvaged and six have been incorporated into larger sites. As a result, a total of 164 'valid' Aboriginal cultural heritage sites are knowingly located within the Narrabri Mine mining lease boundary, including 101 artefact scatters, 52 isolated finds, five grinding grooves, four scarred trees, a hearth, and a resource site (refer to Figure 4-1). Archaeological investigations at the mine have determined that artefact scatters are generally located in close proximity to creeks and drainage lines, in particular Kurrajong Creek and its tributaries. Artefact densities quickly reduce with an increase in distance from water. This phenomenon is well attested across the broader Gunnedah Basin, with archaeological investigations at nearby mines (Maules Creek, Boggabri, Tarrawonga, and Vickery) confirming the close relationship between artefact density and water.

Appendix E, Table E-1 provides the full list of Aboriginal cultural heritage sites for the Narrabri Mine. The sites are listed according to their AHIMS ID; the original site numbers assigned by NCOPL have been removed. All Aboriginal cultural heritage sites are now referenced in this Plan by the registered site name and AHIMS ID (e.g. Pine Creek T2/OS 1 AHIMS 19-3-0084). Figure 4-2 provides an overview of the Aboriginal cultural heritage sites in relation to the approved surface disturbance footprint.

More detailed descriptions of the Aboriginal cultural heritage sites are provided in the Aboriginal heritage assessments prepared as part of the Stage 2 Environmental Assessment and the Stage 3 EIS.

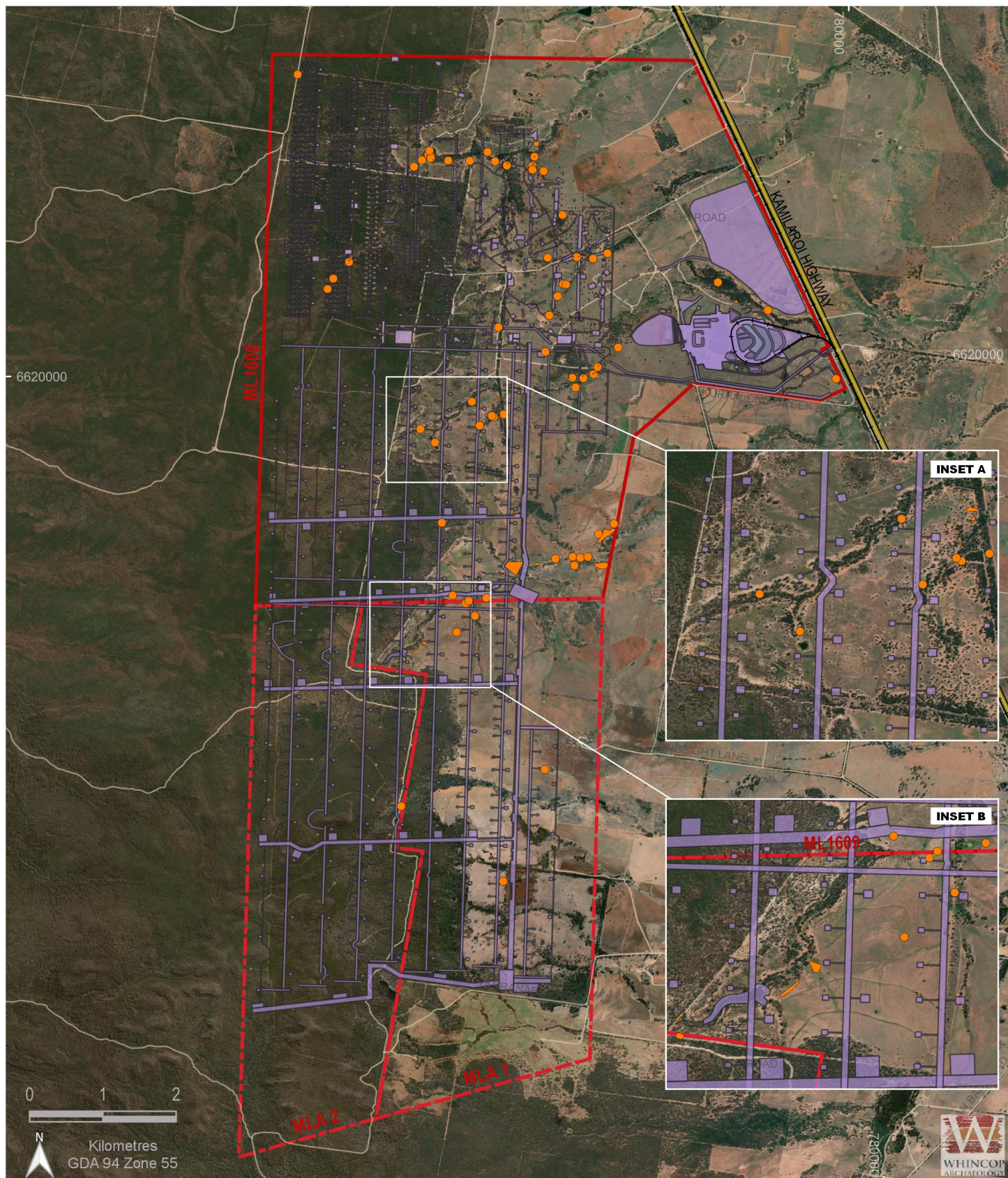


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	ML1609	Aboriginal sites
	MLA1	Grinding grooves
	MLA2	Hearth
	Highway	Isolated artefact
	Railway	Resource site
	Watercourse	Scarred tree
		Artefact scatter

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FIGURE 4-1
Aboriginal Cultural Heritage Sites



LEGEND

- | | | | |
|--|-------------------------------|--|---------|
| | ML1609 | | Highway |
| | MLA1 | | Roads |
| | MLA2 | | Railway |
| | Surface disturbance footprint | | |
| | Aboriginal sites | | |

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FIGURE 4-2

Aboriginal Cultural Heritage Sites
Relative to Surface Disturbance

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4.5 Aboriginal community consultation

Comprehensive consultation was undertaken for the Stage 1 and Stage 2 assessments in accordance with the relevant legislation and guidelines.

Consultation for Stage 3 was conducted in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010a), the NP&W Act, and the NP&W Regulation. A total of 11 Aboriginal stakeholders (refer to section 1.4) registered an interest in the development of Stage 3 and were consulted in relation to the ACHA process.

Consultation mechanisms included information sessions, public notices, written and verbal correspondence, archaeological survey attendance and site inspections.

4.6 Cultural values

Consultation regarding cultural values established several themes of traditional knowledge, these are:

- Inter-connectedness of places - traditionally, Kamilaroi people are considered to have traversed the broader region for trade, hunting and foraging along established routes defined by the topography (e.g. certain creek lines and ridgelines);
- 'Nature' and 'Culture' – some Aboriginal people do not make a clear distinction between the natural world and culture, as the two things are closely intertwined (e.g. totemic species). RAPs identified some flora and fauna species of traditional importance to them; and
- Access - some Kamilaroi people have a keen interest in their history and traditions, and they wish to be afforded opportunities to access Country.

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5. Predicted impacts

Aboriginal cultural heritage sites have the potential to be indirectly impacted as a result of:

- subsidence associated with underground mining activities;
- potential ponding of surface water as a result of subsidence;
- deposition of dust generated by mining;
- accidental disturbance by peripheral activities; and
- inappropriate visitation of known Aboriginal cultural heritage sites, including the unauthorised removal of Aboriginal objects.

5.1 Scientific significance

The assessment of cultural heritage value or 'significance' is a fundamental component of the heritage management process in that it assists in determining which sites, places, landscapes, environments and items are of sufficient importance that they require more careful management and conservation.

The assessment of the significance of Aboriginal cultural heritage sites is a complex process and involves the consideration of both scientific significance and the value to the local Aboriginal community (cultural significance). The Aboriginal cultural heritage values of the Narrabri Mine are commonly associated with the archaeological evidence within the mining lease boundary and its cultural significance for RAPs. All identified Aboriginal archaeological sites within the mining lease boundary have been identified by RAPs as being, in their opinion, culturally significant. These archaeological sites have the potential to provide RAPs a link between the past and the present, and they should be cared for appropriately.

Scientific significance of the archaeological sites at Narrabri Mine have been assessed by examining the research potential and rarity/representativeness of the Aboriginal cultural heritage sites recorded. The resulting scientific significance of archaeological sites identified during the Stage 2 and Stage 3 investigations are included in Appendix E. The scientific significance for Aboriginal cultural heritage sites within the mine area have been assessed as predominately low (n = 149). This is due to these sites containing low artefact densities (<10 artefacts) within disturbed deposits. The Narrabri Mine contains nine sites of medium scientific significance, which includes a scarred tree, a grinding grooves site, and seven artefact scatters with research potential. The Narrabri Mine also contains six sites of high significance, all of which are located within ML1609. No sites of high scientific significance were identified during the Stage 3 assessment. Sites of high significance include a fireplace (AHIMS 19-6-0093), because it is a rare site type that holds potential to provide a better understanding of Aboriginal occupation in the region (i.e. through radiometric dating). Other sites of high scientific significance include a scarred tree, two grinding groove sites and two artefact scatters with potential in situ subsurface deposits.

5.2 Potential impacts from surface development

The Stage 2 assessment identified that mining activities may have the potential to impact Aboriginal cultural heritage sites, both as a result of surface disturbing activities (i.e., within the Pit Top Area, along the proposed water pipeline route and associated with the progressive development of mine ventilation and gas drainage infrastructure) as well as subsidence impacts (refer to section 5.3).

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The Stage 3 Surface Development Footprint (Figure 1-2) will avoid direct disturbance to all known Aboriginal cultural heritage sites. Therefore, it is anticipated that none of the known sites will be directly impacted; however, some flexibility in the development footprint is needed over the life of the mine due to further detailed mine planning, operational/mine safety requirements, and for specific siting of infrastructure to minimise impacts. Additionally, due to the current design, surface disturbance will not result in a loss of value of the known Aboriginal cultural heritage sites.

5.3 Potential impacts from subsidence

The likely impacts from subsidence on sites identified as part of Stage 2 were assessed as 'minimal', with the exception of Claremont GG1. This site is located on exposed sandstone and has 'low' archaeological significance. Claremont GG1 is within the Mining Reduction Zone, which will be implemented by NCOPL to reduce potential impacts to this site (now considered 'unlikely').

Mine subsidence is generally considered to carry negligible risks for Aboriginal cultural heritage sites located on soil and similar 'flexible' surfaces. For this reason, the potential impacts from subsidence on artefact scatters and isolated artefacts are likely to be negligible.

The Extraction Plan – Aboriginal Heritage Management Plan details the management of potential subsidence impacts on objects or items of Aboriginal cultural heritage which may include the temporary salvage of artefacts within the subsidence area (refer to Appendix F).

A procedure for Subsidence Repair in Aboriginal Cultural Heritage Sites has been prepared in consultation with the RAPs to develop a methodology for conducting surface crack repair and other subsidence impacts within identified Aboriginal cultural heritage sites. The procedure aims to enable rehabilitation activities which avoid and/or minimise any potential adverse impacts to Aboriginal cultural heritage values.

An assessment of the likely impacts of subsidence on the two axe-grinding groove sites identified as part of the Stage 3 assessment concluded that only grinding groove sites located on bedrock are likely to be impacted as loose boulders are unlikely to crack:

- Mayfield GG1 - a grinding groove site of moderate scientific significance (and high cultural significance), is thought to be located on sandstone bedrock and, therefore, has been assessed as having a 'possible to likely' potential for cracking; and
- Longsight GG1 - the second grinding groove site of low scientific significance (and high cultural significance), is located on sandstone boulders and is, therefore, unlikely to be impacted by subsidence.

5.4 Cumulative impacts

The cumulative effect that may result from the development and operation of the mine is considered to be low and will be mitigated by the management measures recommended in section 6.

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6. Management and mitigation measures

The mitigation and management measures detailed in the following sections have been developed in consultation with the RAPs, in consideration of the cultural and scientific significance of Aboriginal cultural heritage sites identified within the surface development footprint, which has been designed to avoid all known Aboriginal cultural heritage sites. These measures will also extend to Aboriginal objects and places identified outside the approved disturbance area.

6.1 Surface development footprint

NCOPL will implement the following measures (or protocols) to manage the potential impacts of surface disturbance:

- maintain an up to date spatial database of known Aboriginal cultural heritage sites and mark these sites on relevant mine documentation and plans;
- continue to implement a protocol for surface disturbance works to reduce the risk of accidental damage to known Aboriginal cultural heritage sites (i.e. demarcation of Aboriginal cultural heritage sites located in proximity to, but outside of, proposed disturbance areas);
- the location of known Aboriginal cultural heritage sites will be considered during final detailed engineering designs of surface infrastructure;
- surface impacts will be avoided at the two grinding groove sites (Mayfield GG1 and Longsight GG1), and within the Mining Reduction Zone (Clermont GG1);
- where practicable, known Aboriginal cultural heritage sites will be avoided during construction and operational works associated with components with flexible design;
- where changes to current design of the Surface Development Footprint mean that avoidance of known Aboriginal cultural heritage sites is not practicable³, the site(s) will be subject to salvage of a representative collection of visible surface artefacts in consultation with the Aboriginal community, and an assessment undertaken whether the site is likely to hold in situ subsurface archaeological deposits that warrant excavation;
- protocols for the management of previously unidentified Aboriginal cultural heritage sites and/or human remains will be implemented;
- a protocol to be developed that prescribe the involvement of RAPs in cultural heritage works conducted under this Plan; and
- a communication protocol to be developed that describes clear methods of communication, including expectations of suitable notification and response times between NCOPL and the RAPs.

Options for the final storage location (Keeping Place) of any collected artefacts is to be determined in consultation with the RAPs, with consideration of returning all cultural objects to the landscape post-rehabilitation and/or retaining for use by the Aboriginal community for display/educational purposes.

Section 6.2 outlines further protection measures for vegetation clearing and soil stripping to be implemented during disturbance activities.

³ in the interest of mine safety, there may be limited scope to relocate critical mine safety infrastructure.

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6.2 Vegetation and soil striping measures

Any soil disturbance work within 100 m of a watercourse or drainage line, or in areas not previously inspected by RAPs for cultural heritage purposes requires the presence of the RAPs to monitor the works and minimise the risk of Aboriginal sites/objects of being disturbed by clearing activities (refer to section 7.3.1 for further detail).

Should an emergency situation arise that requires vegetation clearance (e.g. firefighting, hazardous materials spill) in the vicinity of protected Aboriginal cultural heritage sites, vegetation clearance will be undertaken with minimum possible disturbance to the topsoil. Under section 87A of the NP&W Act, the concept of 'Harming or desecrating' Aboriginal objects or places does not apply for:

- emergency firefighting or bush fire hazard reduction work within the meaning of the *NSW Rural Fires Act 1997* that is authorised or required to be carried out under that Act; and
- anything authorised by or under the *NSW State Emergency and Rescue Management Act 1989* in relation to an emergency (within the meaning of that Act) and that is reasonably necessary in order to avoid an actual or imminent threat to life or property.

Activities relating to maintenance, construction and initial mining, or operational activities do not comprise emergency situations.

6.3 Subsidence areas

The following measures will be undertaken to manage potential impacts to Aboriginal cultural heritage sites from subsidence throughout the life of mine:

- where subsidence-related impacts such as surface cracking are identified within the boundary of an existing site of moderate or high scientific significance, the site will be inspected by representatives of the RAPs and an appropriately qualified specialist (e.g. archaeologist, geologist, geomorphologist) to determine the nature and extent of impacts, and to provide advice on whether mitigation is required or feasible;
- mitigation measures may include further monitoring, surface collection or open area salvage excavation (if warranted);
- implementation of the Mining Reduction Zone for Claremont GG1; and
- investigations of the grinding groove site Mayfield GG1 by an appropriately qualified specialist (e.g. archaeologist, geologist, geomorphologist) and RAPs are required to determine potential connection to bedrock (see section 7.3.3). If connection to bedrock is identified, additional management measures will be determined on the advice from the qualified archaeologist and in consultation with the RAPs.

A procedure for subsidence repair in the vicinity of Aboriginal cultural heritage sites has been prepared in consultation with the RAPs to develop a method for conducting surface crack repair and other subsidence impacts. The procedure aims to enable rehabilitation activities which avoid and/or minimise any potential adverse impacts to Aboriginal cultural heritage values.

Site specific subsidence management measures will be detailed in the Extraction Plan - Aboriginal Heritage Management Plan, with the proposed measures subject to approval by the RAPs and the relevant regulatory agencies.

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6.4 General mitigation measures

In addition to the above, NCOPL will implement the following general measures that have been formulated in consultation with the RAPs:

- seek to minimise the risk of inadvertent damage to Aboriginal cultural heritage sites by promoting an awareness of heritage conservation via the induction process;
- a comprehensive Aboriginal Cultural Heritage Sites Database, which contains all relevant information of Aboriginal cultural heritage sites located at the Narrabri Mine and surrounds, will be established and maintained for the life of mine;
- all known Aboriginal cultural heritage sites within the mine site will be fenced and appropriately signed to avoid accidental damage;
- maintain ongoing consultation with the Aboriginal community over the life of mine, including appropriate Aboriginal representation during archaeological fieldwork;
- provide opportunities for Aboriginal community members to access known Aboriginal cultural heritage sites located on NCOPL-owned land in accordance with relevant work health and safety requirements; and
- NCOPL will investigate opportunities to incorporate RAPs in on site activities such as biodiversity management and rehabilitation.

Should any skeletal remains be identified, work in that location will cease immediately and the find notified to the relevant authorities (including the NSW Police) (see Appendix G). Subject to the NSW Police requiring no further involvement, the management of any Aboriginal skeletal remains will be determined in consultation with Heritage NSW and the RAPs.

6.5 Management protocols and procedures

NCOPL have developed numerous protocols and procedures which are provided as appendices to this ACHMP for the protection of Aboriginal cultural heritage sites, and to implement the mitigation measures detailed above:

- Appendix F Site salvage procedure
- Appendix G Discovery of possible human remains procedure
- Appendix H Salvage and curation of scarred trees procedure
- Appendix I Accidental damage to known sites procedure
- Appendix J Unidentified Aboriginal cultural heritage sites procedure
- Appendix K Consultation and communication protocol

Appendix F to K provide further details regarding the roles and responsibilities of the RAPs.

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6.6 Permit to work

No personnel, including contractors, are permitted to carry out surface disturbance or excavation work without a permit to work. The purpose of the permit to work is to ensure there are adequate controls in place to reduce the potential for loss or damage to Aboriginal cultural heritage sites and/or breach NCOPLs legislative obligations. Prior to issuing the permit to work, environmental compliance checks will assess the proposed disturbance for potential to impact on environmental and/or known Aboriginal cultural heritage sites.

Surface disturbance works will, wherever possible, be designed to avoid impacts to identified Aboriginal cultural heritage sites. In the event that disturbance to the Aboriginal cultural heritage site cannot be avoided, the salvage of the impacted site(s), which requires approval of the Planning Secretary, will be managed as per the site salvage procedures (refer to Appendix F and Appendix H).

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7. Conservation program

7.1 Principles and commitments

NCOPL recognises the importance of Aboriginal sites to all traditional owners, members of the RAPs, and its obligations under the NP&W Act. NCOPL is committed to undertaking all activities in a manner which conserves the Aboriginal cultural heritage values identified within the mine site and surrounding areas, including offset areas. Central to the satisfaction of this commitment will be the continuation of an open and honest relationship and regular consultation between NCOPL, the Aboriginal community and the relevant NSW regulatory agencies.

The NCOPL Aboriginal cultural heritage Conservation Program has been prepared based on all Aboriginal cultural heritage surveys and assessment recommendations, and in consultation with the RAPs.

The following sections detail the program currently implemented to enhance and conserve Aboriginal cultural heritage values.

7.2 Methods of investigation

In order to identify any Aboriginal cultural heritage sites within Narrabri Mine, cultural heritage surveys and assessments generally follow the steps outlined below:

1. A review of the available archaeological information on and surrounding the mine site.
2. A reconnaissance field survey of the areas considered likely to contain cultural heritage values e.g. drainage lines and rocky outcrops. The field surveys include on-site representatives of the RAPs.
3. The location of any identified Aboriginal cultural heritage sites is recorded and plotted, and the Aboriginal Cultural Heritage Sites Database updated accordingly.
4. Additional areas of potential archaeological sensitivity within the mine site identified through consideration of the field assessment survey results.
5. The significance of Aboriginal cultural heritage sites or objects identified during the reconnaissance survey/s are assessed by a qualified archaeologist in consultation with the RAPs.
6. A set of management procedures for all identified sites and areas of potential archaeological sensitivity identified within the mine site is developed.
7. The impact on Aboriginal cultural heritage as a result of the surface disturbance on the mine site is assessed.

7.3 Site protection

All known Aboriginal cultural heritage sites within the mine site will be fenced and appropriately signed to avoid accidental damage. The fencing of any newly identified Aboriginal cultural heritage sites will adhere to the Unidentified Aboriginal cultural heritage sites protocol (Appendix J). Fencing will fully enclose the extent of each site, to be determined according to the Aboriginal Cultural Heritage Sites Database and in consultation with a qualified archaeologist and RAPs, and will include the following buffer:

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- artefact site – site extent with 10m buffer;
- scarred tree – extent of canopy (i.e. outermost circumference) with 5m buffer;
- grinding grooves – site extent with 10m buffer;
- hearth – site extent with 10m buffer; and
- resource site – site extent with 5m buffer.

As stock will be accessing areas of the mining lease, and to protect Aboriginal cultural heritage values, each known Aboriginal cultural heritage site will comprise of sturdy and durable stock proof fencing that is consistent with farm fencing. A reflective sign will be positioned on the fencing perimeter to identify the area as an archaeological site. The signs will include the below, or similar wording:

“Archaeological Site – Do Not Disturb – Contact Environmental Officer”.

Stock proof fencing is deemed to be long-term structures that do not warrant constant monitoring. Therefore, an annual audit of existing site fences will be undertaken to ensure fencing is maintained and in good condition.

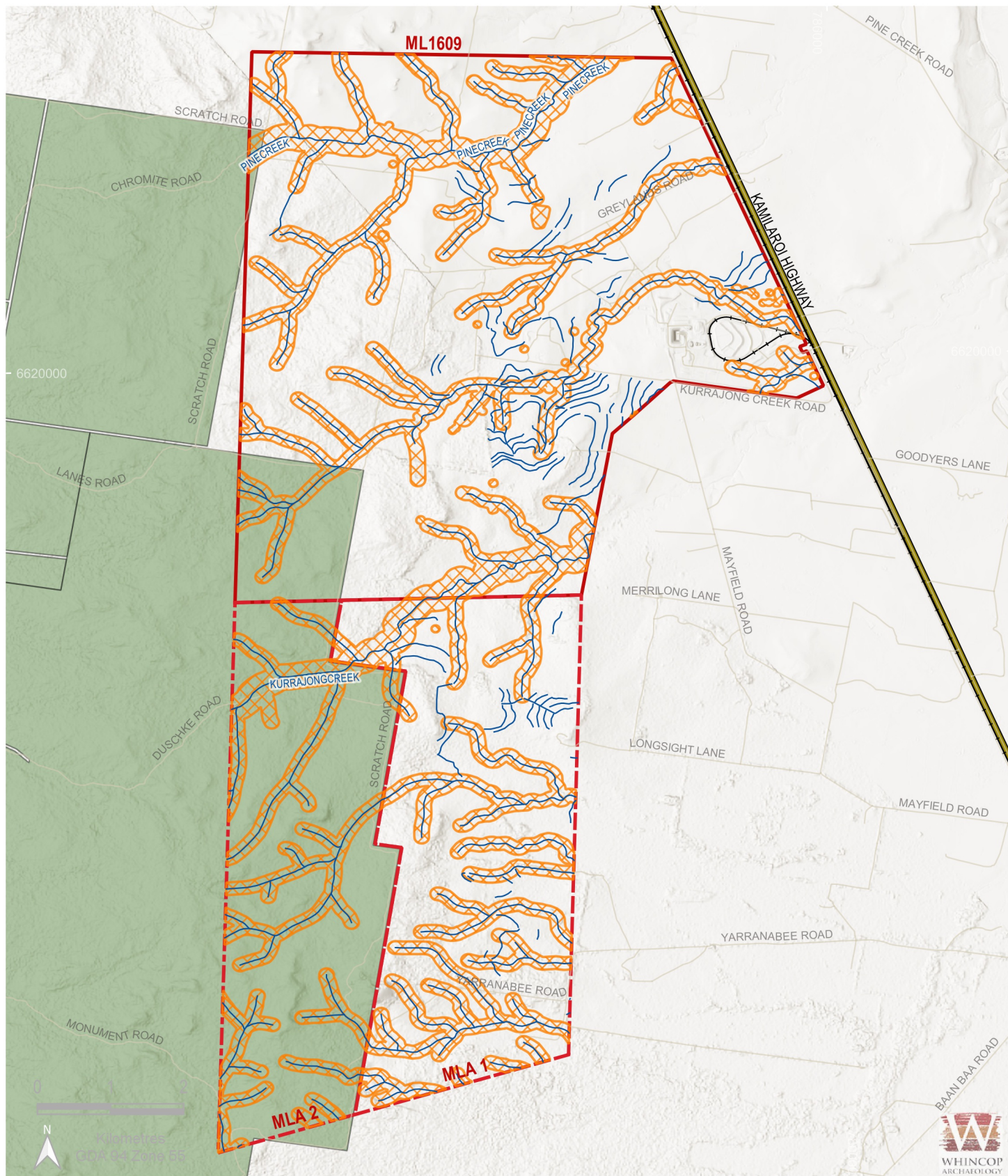
7.3.1 Cultural Heritage Monitors

To reduce the risk of impacts on previously unidentified Aboriginal cultural heritage values, a Cultural Heritage Monitor/s is required (acting as a representative of the RAPs) on site during disturbance activities within the areas identified in Figure 7-1 (i.e. any soil disturbance work within 100 m of a water course or drainage line).

The monitors will generally walk the proposed area immediately prior to vegetation clearing and will also be in attendance during excavation works (to 400mm depth). All parties (i.e., machine operators, cultural heritage monitors, ecologists) must sign onto a Permit to Work form (section 6.6) prior to undertaking the disturbance activity.

The Environmental Superintendent will arrange for monitors to attend site for the proposed works.

In the event that a new Aboriginal site is identified, and in accordance with the procedures documented within this ACHMP, the relevant site details will be submitted to AHIMS for registration. The Narrabri Aboriginal cultural heritage sites database will be updated accordingly (section 7.4). Any salvaged artefacts will be stored in the current Keeping Place, in accordance with section 7.5.



LEGEND

- ML1609
- MLA1
- MLA2
- Areas requiring RAP's
- Highway
- Railway
- Waterways

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FIGURE 7-1
Aboriginal Cultural Heritage Sensitive Areas

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7.3.2 Monitoring impacts of the development

A program to monitor impacts of the development on Aboriginal cultural heritage sites and to monitor the effectiveness of the management measures will be described in the relevant Extraction Plan. The program will include monitoring of all identified Aboriginal cultural heritage sites prior to, during and six months following cessation of mining of the relevant Extraction Plan longwall panels.

As discussed in section 7.3, NCOPL will conduct annual audits of stock proof fencing to ensure fencing is maintained and in good condition.

7.3.3 Mayfield GG1 Investigations

Further investigation of Mayfield GG1 will be undertaken to determine potential connection to bedrock with an appropriately qualified specialist (e.g. archaeologist, geologist, geomorphologist) and the RAPs. Mayfield GG1 is subject to indirect impacts associated with the effects of subsidence, or, if connected to bedrock, may be subject to potential cracking and/or possible erosion damage. Heritage NSW have noted that these investigations are supported, and that NCOPL will undertake any future test excavation and salvage programs in consultation with the RAPs as part of this ACHMP. If the investigations determine that the site is connected to bedrock, additional management measures will be determined in consultation with the qualified archaeologists and the RAPs and may include electronic monitoring equipment and/or regular inspections by NCOPL staff and RAPs.

7.3.4 Biodiversity offset areas

The management of Aboriginal heritage sites and values within the Biodiversity Offset Areas (**BOAs**) is consistent with this ACHMP. There is not expected to be any conflict between biodiversity management works in the offset areas and any cultural and historical heritage values and sites by adopting the following measures:

- any new offset area will have an Aboriginal heritage due diligence assessment completed prior to commencing biodiversity management works that cause surface disturbance. In addition, prior to biodiversity management works (e.g fire break track maintenance, revegetation ground preparation or infrastructure/asset removal), NCOPL will review the Aboriginal cultural heritage site locations to avoid these being impacted;
- any existing tracks that traverse a known Aboriginal cultural heritage site can continue to be used by 'soft' wheel vehicles (i.e., rubber tyres) and can be maintained accordingly. These portions of track, however, cannot be graded or be subjected to ground disturbance activities. An alternative track location is the preferred option;
- no ground disturbance works can be undertaken at the location of any Aboriginal cultural heritage sites. An Aboriginal Heritage Impact Permit (AHIP) must be obtained from the relevant authority before any Aboriginal cultural heritage site can be impacted on a biodiversity offset, if impact is unavoidable;
- routinely maintain and update the Aboriginal cultural heritage sites database with newly identified cultural heritage sites (see section 7.4);
- all Aboriginal cultural heritage sites within BOAs will be fenced and appropriately signed to to avoid inadvertent impact or disturbance during biodiversity management activities. Signage will include a WHC contact number so that only authorised access can be permitted, and all activities must be authorised;

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- all Aboriginal cultural heritage sites will have an annual fencing inspection to ensure the integrity of the fencing and site condition has not been compromised and that heritage sites are appropriately managed; and
- if any potential Aboriginal cultural heritage objects, artefacts, or human remains are identified during biodiversity management activities; the procedures documented in Appendix F to Appendix J will be implemented.

The Narrabri Mine Stage 2 Biodiversity Offset Strategy and the Stage 3 Biodiversity Stewardship Agreements further outline the management of Aboriginal cultural heritage sites within the Narrabri Mine BOAs. The management of Aboriginal cultural heritage sites for these areas will be undertaken in accordance with the 'NSW Minerals Industry Due Diligence Code of Practice for the Protection of Aboriginal Objects'.

7.4 Aboriginal cultural heritage sites database

A comprehensive Aboriginal cultural heritage sites database, which contains the name, AHIMS number, site type, scientific (or other) significance, coordinates and status of all Aboriginal cultural heritage sites located within and surrounding the site (including within the offset areas) has been established and will be maintained for the life of mine. This database will be maintained with accurate and up-to-date information.

NCOPL will contact Heritage NSW to advise of any errors in the AHIMS register where discrepancies are identified. Updates to the NCOPL Aboriginal cultural heritage sites database will be undertaken as required.

Each of the identified Aboriginal cultural heritage sites has been registered with AHIMS and site cards retained by NCOPL.

7.5 Keeping Place

Consultation with RAPs to identify a culturally appropriate keeping place for all salvaged material from the Narrabri Mine has begun. Although a final Keeping Place has not yet been determined, a Care Agreement, as required under the NP&W Act, will be required for all salvaged artefacts. An Interim Keeping Place has been established for the storage of salvaged Aboriginal objects from the salvage program. This Interim Keeping Place consists of a locked cupboard within the NCOPL offices at the mine site.

Consultation regarding the final Keeping Place is ongoing and will be discussed with all RAPs at the biennial RAP consultation meetings.

Following closure of the mine, RAPs will be consulted to determine whether and, if so, where previously salvaged artefacts will be repatriated back onto Country.

7.6 Induction and training

NCOPL seeks to minimise the risk of inadvertent damage to Aboriginal cultural heritage sites by promoting an awareness of heritage conservation via the induction process. All NCOPL personnel have a duty of care to protect and manage Aboriginal cultural heritage sites from adverse impacts.

All personnel undertaking work at Narrabri Mine are required to complete an induction package, which includes a training module focusing on Aboriginal cultural heritage awareness. The module provides information in relation to the presence, identification, reporting and protection of Aboriginal cultural heritage sites within and surrounding the site.

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		Document approver:	Manager HSE
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WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

The induction package was developed in consultation with the RAPs and is delivered through an NCOPL on-line portal.

NCOPL retains records of all completed inductions.

7.7 Ongoing RAP consultation

NCOPL is committed to maintaining ongoing consultation with RAPs throughout the life of mine. Ongoing consultation with RAPs will occur via scheduled meetings that are open to all RAPs. The objectives of the meetings are to provide a forum for RAPs to raise any issues they may have regarding the mine and for NCOPL to provide updates.

Meetings with RAPs will be convened by NCOPL every six months. Issues that may be discussed in the meetings include, but are not limited to:

- mine progress;
- update on the Keeping Place;
- fieldwork timing and arrangements;
- fieldwork policies and protocols;
- implementation of Aboriginal Cultural Awareness Training;
- ACHMP review;
- key results of any fieldwork (including the outcomes of salvage activities and post-salvage analysis and any additional training opportunities); and
- RAP input on, and facilitating access to, certain species of flora and fauna for cultural purposes.

RAPs will be notified of upcoming meetings with a minimum of 14 days' notice.

Aboriginal community members other than RAPs may attend individual meetings, if agreed by NCOPL prior to the meeting.

Additional meetings with RAPs (i.e. in addition to the scheduled meetings) may be held on an as needed/requested basis if agreed by NCOPL, and may be called to address issues that cannot be dealt with by means of established protocols.

Meeting notes (minutes) of all RAP meetings will be made available to all RAPs at subsequent meetings.

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8. Incidents and non-compliance

8.1 Incident notification

An incident is defined under the CoC as *an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance*.

Material harm, as defined under the CoC, is harm to the environment that:

involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)

This definition excludes “harm” that is authorised under either the CoC or any other statutory approval (e.g., EPL).

In accordance with CoC E9, NCOPL will notify DPE and any other relevant agencies immediately as it becomes aware of an incident. Incident notification will be made in writing via the Department’s Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.

Notifications to the Environment Protection Authority (EPA) will be made by contacting the Environment Line on 131 555 and written details of the notification will be provided within 7 days of the date on which the incident occurred.

Incident reporting and emergency response is further described in the EMS.

8.2 Non-compliance notification

The CoC defines a non-compliance as *an occurrence, set of circumstances or development that is a breach of this consent*. For clarity, ‘this consent’ is referring to development consent SSD 10269.

In accordance with CoC E4, where an exceedance of the relevant criteria or performance measures has occurred, NCOPL will, at the earliest opportunity, take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur. All reasonable and feasible options for remediation (where relevant) will be considered and a report submitted to the DPE describing those options and any preferred remediation measures or other course of action.

In accordance with CoC E10, within seven days of becoming aware of a non-compliance, NCOPL will notify DPE of the non-compliance⁴. The notification will be made in writing via the Department’s Major Projects Website and identify the development (including the development application number and name), set out the CoC that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

⁴ A non-compliance which has been notified as an incident under section 8.1 does not need to be notified as a non-compliance under section 8.2.

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NCOPL will implement any reasonable remediation measures as directed by the Planning Secretary, to the satisfaction of the Planning Secretary.

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9. Reporting, evaluation and review

9.1 Annual review

NCOPL will review its environmental performance for the previous calendar year and report results within the Annual Review to the satisfaction of the Planning Secretary and in accordance with CoC E11. Table B-1, Appendix B lists all components of the Annual Review.

In accordance with CoC E12, the Annual Review will be submitted to DPE, the IAPUM (via DPE as Secretariat), NSC and Gunnedah Shire Council (**GSC**) and regulatory agencies and made available to the CCC and any interested person upon request. The Annual Review will also be made publicly available on the WHC website.

9.2 Independent Environmental Audit

Within one year of commencement of commencement of the development, and every three years thereafter (unless the Planning Secretary directs otherwise), NCOPL will commission an Independent Environmental Audit (**IEA**) of the development, to be conducted in accordance with CoC E13 and CoC E14. The IEA will be led and conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Planning Secretary.

The IEA process and requirements are further described in the EMS.

9.3 ACHMP review and evaluation

In accordance with CoC E7, NCOPL will review the suitability of the ACHMP within three months of the:

- submission of an incident report under CoC E9 or E10;
- submission of an Annual Review under CoC E11;
- submission of an Independent Environmental Audit under CoC E13;
- approval of any modification of the CoC (unless the conditions require otherwise); or
- notification of a change in development phase under CoC A14.

As required by CoC E8, if the review under CoC E7 determines that the ACHMP requires revision to either improve the environmental performance of the development, cater for a modification or comply with a direction, the revised document will be submitted to the Planning Secretary for approval within six weeks of the review. The revision status of this ACHMP is indicated in section 13.

A dedicated review register will be maintained which will provide the details of the review of all relevant strategies, plans and programs that need to be reviewed as required by CoC E7.

9.4 Improvement measures

Consent condition E5(g) requires this Plan to include a program to investigate and implement ways to improve the environmental performance of the development over time. Improvement measures may be investigated through review of the following:

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- monitoring data, and any assessment of trends;
- audit outcomes, including audits of Aboriginal cultural heritage management measures; and
- incident reports, including any community complaints.

Reasonable and feasible improvement measures will be implemented and documented as a management measure in a revision to the Plan as described in section 9.3.

CoC E5(j) states that the Plan is to include a protocol for periodic review of the Plan. The protocol for review is set out by CoC E7, E8 and E11, which have been addressed in section 9.3.

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10. Complaints management

Any complaints received in relation to Aboriginal cultural heritage will be managed in accordance with the complaints management protocol as follows:

- publicly advertised telephone complaints line, 1800WHAVEN, will be in place to receive complaints.
- each complaint received will be recorded in a Complaints Register, which will include the following details:
 - date and time of complaint;
 - method by which a complaint was made;
 - personal details the complainant wishes to provide or, if no such details are provided, a note to that effect;
 - nature of the incident that led to the complaint;
 - action taken by NCOPL in relation to the complaint (i.e., any required remedial actions), including any follow-up contact with the complainant; and
 - if no action was taken, the reason why no action was taken.
- the Environmental Superintendent will be responsible for ensuring that an initial response is provided within 24 hours of receipt of a complaint (except in the event of complaints recorded when the mine is not operational or outside of usual business hours).
- once the identified measures are undertaken, the Environmental Superintendent will sign off on the relevant complaint within the Complaints Register.
- if necessary, follow-up monitoring will take place to confirm the source of the complaint is adequately mitigated.
- a summary of the complaints will be maintained by NCOPL and made available to the Community Consultative Committee, the complainant (on request) and on the WHC website. A summary of complaints received every 12 months will be provided in the Annual Review.

In the event that any complainant considers that NCOPL has not adequately addressed their concerns, the NCOPL representative will convene additional meetings with the complainant. If the complainant believes the matter remains unresolved, and no further agreement can be reached as to additional measures to be undertaken, then they may refer the matter to DPE.

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11. References

- Australian Heritage Commission (2002). *Ask First: A Guide to Respecting Indigenous Heritage Places and Values*.
- Archaeological Surveys and Reports Pty Ltd (ASR) (2009) *Aboriginal Heritage Assessment of the Narrabri Coal Mine – Stage 2 Longwall Project*. Prepared for Narrabri Coal Operations Pty Ltd (Part 5 of the Specialist Consultant Studies Compendium).
- Commonwealth Department of Environment and Energy (2016). *Engage Early – Guidance for proponents on best practice Indigenous engagement for environmental assessments under the Environment Protection and Biodiversity Conservation Act 1999*.
- Department of Environment, Climate Change and Water (DECCW) (2010a) *Aboriginal Cultural Heritage Consultation Requirements for Proponents*.
- Department of Environment, Climate Change and Water (DECCW) (2010b) *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*.
- Eco Logical Australia (ELA) (2014) *Narrabri Coal Mine Stage 1 and 2 Biodiversity Offset Strategy*. Prepared for Narrabri Coal Operations Pty Ltd.
- Heritage Chairs of Australia and New Zealand (2020) *Dhawura Ngilan: A vision for Aboriginal and Torres Strait Islander heritage in Australia*.
- ICOMOs (Australia) 2013. *The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance*.
- National Parks and Wildlife Service (1997). *Aboriginal Cultural Heritage: Standards and Guidelines Kit*.
- Niche Environment and Heritage (NEH) (2015a) *Narrabri Mine Modification 5 Aboriginal Cultural Heritage Assessment*. Prepared for Narrabri Coal Operations Pty Ltd.
- Niche Environment and Heritage (NEH) (2015b) *Re: Narrabri Mine – Verification of Newly Identified Aboriginal Cultural Heritage Objects*. Prepared for Narrabri Coal Operations Pty Ltd.
- NSW Independent Planning Commission (April 2022). *Development Consent SSD 10269, Narrabri Underground Mine Stage 3 Extension Project*.
- NSW Minerals Council (NSWMC) (2010) *NSW Minerals Industry Due Diligence Code of Practice for the Protection of Aboriginal Objects*.
- Office of Environment and Heritage (OEH) (2011). *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*.
- Resource Strategies Pty Ltd (2020) *Narrabri Underground Mine Stage 3 Extension Project – Environmental Impact Statement*. Prepared for Narrabri Coal Operations Pty Ltd.
- R.W. Corkery & Co Pty Ltd (RWC) (2009) *Environmental Assessment for the Narrabri Coal Mine Stage 2 Longwall Project*. Prepared for Narrabri Coal Operations Pty Ltd.

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Whincop Archaeology (2020) *Aboriginal Cultural Heritage Assessment for the Narrabri Underground Mine Stage 3 Extension Project*. Prepared for Narrabri Coal Operations Pty Ltd.

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12. Glossary

Term	Definition
Aboriginal cultural heritage site	Location of evidence of Aboriginal occupation (typically, Aboriginal objects, but also places of traditional or historical cultural value for which no Aboriginal objects exist).
Aboriginal object	As defined under section 5 of the NP&W Act.
Aboriginal place	As defined under section 5 of the NP&W Act.
Aboriginal remains	As defined under section 5 of the NP&W Act.
Applicant	Narrabri Coal Operations Pty Ltd.
Artefact	An object made by human agency (e.g. stone artefacts).
Assessment	Refer to an environmental assessment of the environmental consequences of a project prior to the decision to move forward with the proposed action.
Calendar year	A period of 12 months from 1 January to 31 December.
Conditions of Consent (CoC)	SSD 10269 issued under s4.38 of the EP&A Act.
Cumulative impacts	Combination of individual effects of the same kind due to multiple actions from various sources over time.
Department	Planning and Assessment Group within the NSW Department of Planning and Environment (DPE).
Development	The Stage 3 development described in the Stage 3 EIS as modified by the CoC.
Environmental Impact Statement	The Environmental Impact Statement titled <i>Narrabri Underground Mine Stage 3 Extension project – Environmental Impact Statement</i> , prepared by Resource Strategies Pty Ltd on behalf of the Applicant and dated October 2020, as amended or added to by the <i>Applicant's Submissions Report</i> submitted 31 May 2021, the <i>Applicant's Amendment Report</i> submitted 31 May 2021, the <i>Applicant's final Biodiversity Development Assessment Report</i> dated September 2021, and the <i>Applicant's Additional Information on GHGs</i> dated 15 October 2021 and 17 December 2021.
Environment	Includes all aspects of the surroundings of humans, whether affecting any human as an individual or in his or her social groupings.
Extent of canopy	a guide measurement used to prevent unnecessary damage to trees during construction works. It is defined as the outermost circumference of the tree's canopy, from which water drips onto the ground. It includes the soil and roots that lie within that circumference.
Heritage NSW	Heritage NSW within the Department of Premier and Cabinet.
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
In situ	Latin terminology meaning 'undisturbed'.
Land	Part B of the CoC defines land to mean the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of the CoC.
Material harm	Is harm to the environment that: - involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or - results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent,

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Term	Definition
	mitigate or make good harm to the environment). This definition excludes “harm” that is authorised under the CoC or any other statutory approval.
Mine owned land	Land owned by a mining, petroleum or extractive industry company (or its subsidiary or related party).
Minimise	Implement all reasonable and feasible mitigation measures to reduce the impacts of the Project.
Mining operations	The carrying out of mining, including the extraction, processing, stockpiling and transportation of coal on the site and the associated removal, storage and/or emplacement of vegetation, topsoil, overburden and reject material; and includes underground development necessary for mining operations to be carried out (such as installation and use of electricity, water, communications and other services and infrastructure).
Mitigation	Activities associated with reducing the impacts of the development.
Narrabri Mine	The development approved under the CoC, together with the development approved under Project Approval 05_0102, Project Approval 08_0144.
Negligible	Small and unimportant, such as to be not worth considering/
Non-compliance	An occurrence, set of circumstances or development that is a breach of the conditions of the statutory approvals.
Plan	Aboriginal Cultural Heritage Management Plan/
Planning Secretary	Planning Secretary under the EP&A Act, or nominee/
Registered Aboriginal Parties	As described in the National Parks and Wildlife Regulation 2019.
Rehabilitation	The restoration of land disturbed by the development to ensure it is safe, stable and non-polluting over the short, medium and long term.
Site	Has the same meaning as Aboriginal cultural heritage site.
Stage 2	Narrabri Mine Stage 2 approved under Project Approval 08_0144.
Stage 3	Narrabri Underground Mine Stage 3 Extension Project approved under SSD 10269.
Subsidence impacts	Physical changes to the ground and its surface caused by subsidence effects, including tensile and shear cracking of the rock mass, localised buckling of strata caused by valley closure and upsidence and surface depressions or troughs.
Surface Development Footprint	The proposed disturbance footprint for Stage 3.

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13. Review History

Revision	Comments	Author	Authorised by	Date
0A	Approved by Department of Environment and Planning	Onward Consulting	Manager HSE	

	NARRABRI MINE ENVIRONMENTAL MANAGEMENT SYSTEM	Document owner:	Environmental Superintendent
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Appendix A - Consultation records

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Table A-1 RAP consultation log

Registered Aboriginal Party (RAP)	Date of initial contact	Response
Gomeri Narrabri Aboriginal Corporation (GNAC) (Jim Trindall)	20-May-22	no response
Narrabri Local Aboriginal Land Council (NLALC) (Lyn Trindall)	20-May-22	email response 23 June (no comments)
AGA Culture Services (Ashley Sampson)	20-May-22	no response
Cacatua General Services (George Sampson)	20-May-22	no response
Michael John Long (White Cockatoo)	20-May-22	email response 30 May (no comments)
Michael Ronald Long (Junior)	20-May-22	no response
Kerry Morgan Fernando	20-May-22	no response
Brian Draper	20-May-22	no response
Muki Namae Two Rivers Aboriginal Corporation (Aaron Talbott)	20-May-22	no response
David Horton	20-May-22	email response 23 May (no comments)
Leslie "Uncle Jacko" Woodbridge	20-May-22	no response

NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN



ACHAregistration

To [REDACTED]

You replied to this message on 20/06/2022 3:54 PM.



Stage 3 ACHMP Rev A - for consultation_opt.pdf
.pdf File



Consultation letter to RAPS - (NLALC Lynn Trindall).pdf
.pdf File



Reply

Reply All

Forward



Fri 20/05/2022 4:23 PM

Dear Lynn,

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited

10 Kurralong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

ACHAregistration

Whitehaven Coal Limited

Tel:

Email: [REDACTED] www.whitehavencoal.com.au

From: CEO | Narrabri LALC [REDACTED]

Sent: Thursday, 23 June 2022 6:19 PM

To: Brent Baker - [REDACTED]

Subject: Re: NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

Hi Brent

Confirming that Narrabri LALC had received report and Letter in relation to Narrabri Underground Stage 3 extension project of the Aboriginal Cultural Heritage Management Plan. We wish to advise that Narrabri LALC supports the stage 3 report. If you require any further information I will be back in the office on Monday

Cheers

Lynn Trindall

CEO

Narrabri Local Aboriginal Land Council

NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN



ACHAregistration

To [REDACTED]



Stage 3 ACHMP Rev A - for consultation_opt.pdf
.pdf File



Consultation letter to RAPS - Aaron Talbott.pdf
.pdf File



Reply

Reply All

Forward



Fri 20/05/2022 4:25 PM

Dear Aaron,

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited

10 Kurralong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

ACHAregistration

Whitehaven Coal Limited

Tel:

Email: [REDACTED] www.whitehavencoal.com.au

NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN



ACHARegistration

To: [REDACTED]

👍 Reply Reply All Forward ...

Fri 20/05/2022 4:32 PM

Stage 3 ACHMP Rev A - for consultation_opt.pdf
.pdf File

Consultation letter to RAPS - Ashley Sampson.pdf
.pdf File

Dear Ashley,

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited
10 Kurralong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

ACHARegistration

Whitehaven Coal Limited

Tel: [REDACTED]
Email: [REDACTED] www.whitehavencoal.com.au

NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN



ACHARegistration

To: [REDACTED]

👍 Reply Reply All Forward ...

Fri 20/05/2022 4:26 PM

Stage 3 ACHMP Rev A - for consultation_opt.pdf
.pdf File

Consultation letter to RAPS - Brian Draper.pdf
.pdf File

Dear Brian,

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited
10 Kurralong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

ACHARegistration

Whitehaven Coal Limited

Tel: [REDACTED]
Email: [REDACTED] www.whitehavencoal.com.au

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ACHARegistration

To: [REDACTED]

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Fri 20/05/2022 4:33 PM

Stage 3 ACHMP Rev A - for consultation_opt.pdf
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Consultation letter to RAPS -George Sampson.pdf
.pdf File

Dear George,

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited
10 Kurralong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

ACHARegistration

Whitehaven Coal Limited

Tel: [REDACTED]
Email: [REDACTED] www.whitehavencoal.com.au

NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

ACHAregistration
To [REDACTED]

You forwarded this message on 20/05/2022 4:33 PM.



👍 Reply Reply All Forward ...

Fri 20/05/2022 4:22 PM

Dear Jim,

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited
10 Kurradjong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

ACHAregistration
To [REDACTED]



👍 Reply Reply All Forward ...

Fri 20/05/2022 4:28 PM

Dear Kerry,

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited
10 Kurradjong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

ACHAregistration

Whitehaven Coal Limited

Tel: [REDACTED]
Email: [REDACTED] www.whitehavencoal.com.au

NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

ACHAregistration
To [REDACTED]



👍 Reply Reply All Forward ...

Fri 20/05/2022 4:29 PM

Dear Leslie (Uncle Jacko),

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited
10 Kurradjong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

ACHAregistration

Whitehaven Coal Limited

Tel: [REDACTED]
Email: [REDACTED] www.whitehavencoal.com.au

NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

ACHAregistration
To: [REDACTED]

👍 Reply 🔄 Reply All ➔ Forward ⋮
Fri 20/05/2022 4:31 PM

📎 Stage 3 ACHMP Rev A - for consultation_opt.pdf .pdf File
📎 Consultation letter to RAPS - Michael Ronald Long (Junior).pdf .pdf File

Dear Michael (Junior),

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

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Re: NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

DH Dave Horton [REDACTED]
To: [REDACTED]

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Mon 23/05/2022 6:21 AM

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I would like to register for culture n heritage work company gomery culture consultants

From: ACHAregistration <[REDACTED]>
Sent: Friday, 20 May 2022 4:26 PM
To: [REDACTED]
Subject: NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

Dear David,

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited
10 Kurralong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

FW: NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

A ACHAregistration <[REDACTED]>
To: [REDACTED]
Cc: [REDACTED]
📧 Flag for follow up.

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Tue 14/06/2022 4:51 PM

From: Admin service <[REDACTED]>
Sent: Monday, 30 May 2022 11:09 AM
To: ACHAregistration <[REDACTED]>
Subject: Re: NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

To whom it may concern
I Michael long as experience RAP fill majority RAP are being left out of the full engagement of Narrabri underground mine because minority of RAP have conflict of interest with other RAP and I for one is one of the RAP that hasn't been involved in field work therefore would like to see that all rap be on a roster for work.

From: ACHAregistration <[REDACTED]>
Sent: Friday, 20 May 2022 4:30 PM
To: michael long <[REDACTED]>
Subject: NARRABRI UNDERGROUND MINE STAGE 3 EXTENSION PROJECT – ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

Dear Michael (White Cockatoo),

Please find attached correspondence relating to the Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan.

If you could kindly confirm receipt of the letter and management plan via a reply email, that would be appreciated.

Kind Regards,

ACHA Registration

Whitehaven Coal Limited
10 Kurralong Creek Rd, Baan Baa NSW 2390 Australia
P 02 6794 4755

ACHAregistration

Whitehaven Coal Limited

Tel: [REDACTED]
Email: [REDACTED] www.whitehavencoal.com.au

Mr. Brent Baker

NCO-approval@whitehavencoal.com.au

Heritage NSW - Aboriginal Cultural Heritage (ACH) – Narrabri Underground Mine Stage 3 Extension Project - Aboriginal Cultural Heritage Management Plan (SSD-10269-PA-13)

Thank you for referral dated 27 June 2022 in relation to the Narrabri Underground Mine, Stage 3 Expansion, *draft* Aboriginal Cultural Heritage Management Plan (ACHMP).

Heritage NSW has reviewed the *draft* ACHMP prepared by Whitehaven Coal (Narrabri Coal Operations) dated 24 June 2022 and make the following comments and recommendations.

Overall, Heritage NSW supports the draft ACHMP, particularly acknowledging the following:

- 5.2 - Stage 3 surface development footprint will avoid direct disturbance to all known Aboriginal cultural sites.
- 6.1 – Additional salvage program/s where changes to the current design of the surface development footprint occur, in consultation and participation with RAPs.
- 7.3.2 – Engagement of RAPs during further investigations (where required).

Heritage NSW also makes the following recommendations for your consideration when finalising the ACHMP:

- 4.6 Cultural value – suggest more appropriate language around “renewed interest”. Kamilaroi people, along with all other Aboriginal people & nations never lost “interest” in their culture (cultural obligations, responsibilities and lore) – it was forcibly removed from their daily lives.
- 5.3 & 5.4 – Low scientific significance, does not equate to the same score “culturally”, noting that the grinding grooves have a higher cultural sensitivity.
- 6.3 – Suggest representatives from the RAPs participate in the inspections (monitoring) relating to subsidence impacts.
- 7.3 Site fencing – suggest 3 or 6 monthly inspections/auditing of fencing to ensure appropriate safeguard measures are maintained.
- 7.3.1 – clearly outline what is to happen with any new salvaged Aboriginal object/s (keeping place/repatriation or other care & control arrangements – as approved).
- 7.3.3 – “soft” wheel vehicles. Suggest avoidance of any motor vehicle/plant movements, regardless of wheel type, traversing a known Aboriginal cultural heritage site.
- 7.6 – note the induction package was developed in consultation with the RAPs. Will the RAPs be involved in the delivery of the induction package?

If you have any questions regarding the above advice, please contact me on (02) 62 297924 or via email at Andrew.whitton@environment.nsw.gov.au

Yours sincerely

A handwritten signature in black ink that reads "Nicole Davis". The signature is written in a cursive style, with the first name "Nicole" and the last name "Davis" clearly legible.

Nicole Davis
Manager Assessments
Heritage NSW
Department of Planning and Environment
8 July 2022

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Table A-2 Stage 3 Heritage NSW consultation recommendations

Consultation feedback	Outcome
Section 4.6 Cultural values: Suggest more appropriate language around “renewed interest”. Kamilaroi people, along with all other Aboriginal people & nations never lost “interest” in their culture (cultural obligations, responsibilities and lore) – it was forcibly removed from their daily lives.	Section 4.6 Cultural values - bullet point 3 has been amended to remove reference to “renewed interest”. Updated to “have a keen interest”.
Section 5.3 Potential impacts from subsidence & Section 5.4 Cumulative impacts: Low scientific significance, does not equate to the same score “culturally”, noting that the grinding grooves have a higher cultural sensitivity.	Section 5.3 Potential impacts from subsidence – this section has been amended to include reference to “high cultural significance” relating to the Mayfield GG1 and Longsight GG1 Grinding Groove sites. Section 5.4 Cumulative impacts – this section has been amended to remove reference to scientific significance and states “The cumulative effect that may result from the development and operation of the mine is considered to be low and will be mitigated by the management measures recommended in section 6”.
Section 6.3 Subsidence areas: Suggest representatives from the RAPs participate in the inspections (monitoring) relating to subsidence impacts.	Section 6.3 Subsidence areas – bullet point 1 includes reference to inspections to include representatives from the RAPs.
Section 7.3 Site protection: Site fencing – suggest 3 or 6 monthly inspections/auditing of fencing to ensure appropriate safeguard measures are maintained.	Recommendation has been considered and evaluated by Whincop Archaeology as follows: Access to the Narrabri Mine is controlled, mine owned land with access to inducted personnel only and a permit to work process is in place. Due to the nature of the underground mine, there is minimal surface activity/traffic. The NCOPL protocol for land disturbance requires spatial data to be considered, and not just relying on physical fencing to protect the sites. Nevertheless, installed fencing is sturdy and durable, and is consistent with farm fencing. These are long-term structures that do not warrant constant monitoring. Frequent monitoring of fences will represent a

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Consultation feedback	Outcome
	disproportionate incurred cost. Resources can be better utilised towards conservation of unknown Aboriginal cultural heritage within the mining lease. Therefore, annual inspections of the fencing is considered sufficient.
Section 7.3.1 Cultural Heritage Monitors: Clearly outline what is to happen with any new salvaged Aboriginal object/s (keeping place/repatriation or other care & control arrangements – as approved).	Section 7.3.1 Cultural Heritage Monitors – section amended to include information pertaining to “Any salvaged artefacts will be stored in the current Keeping Place, in accordance with section 7.5.” Appendix F also provides for the implementation of a Care Agreement, as required under the NP&W Act 1974.
Section 7.3.4 Biodiversity offset areas: “soft” wheel vehicles. Suggest avoidance of any motor vehicle/plant movements, regardless of wheel type, traversing a known Aboriginal cultural heritage site.	Recommendation has been considered and evaluated by Whincop Archaeology as follows: The Due Diligence Code of Practice (DECCW 2010) allows for the proponent to determine whether an activity is likely to harm an Aboriginal object. It states that, if “your activity will not disturb the ground surface or any culturally modified trees then you can proceed with caution [...]”. (p. 11). “Where either the desktop assessment or visual inspection indicates that there are or are likely to be, Aboriginal objects in the area of the proposed activity, more detailed investigation and impact assessment will be required. This will need to be done by a person with expertise in Aboriginal cultural heritage management” (p. 13). Archaeologists from Whincop Archaeology have considered that the use of ‘soft’ wheeled (i.e. not tracked) vehicles pose a negligible threat of harming Aboriginal objects. Such vehicles generally do not disturb the ground surface (although extreme wet conditions may be an exception). The biodiversity offset area tracks will be used less frequently and less intensively than during farming activities (for example) where unbroken artefacts are frequently identified on farm tracks that have been used by heavy farm machinery for long periods of time. Conventional understanding within Aboriginal cultural heritage management is that “soft wheeled” vehicles have a negligible impact on stone artefacts. Therefore, it is

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Consultation feedback	Outcome
	considered to be appropriate to continue the use of these tracks within the biodiversity offset areas.
Section 7.6 Induction and training: Note the induction package was developed in consultation with the RAPs. Will the RAPs be involved in the delivery of the induction package?	Section 7.6 Induction and training – section amended to include information stating, “Induction package is delivered electronically online”.

Table A-3 Applicable Stage 2 ACHMP Heritage NSW actions

Aspect	Action required	Response
22. The Proponent shall not destroy damage or deface any known Aboriginal objects (as defined in the National Parks and Wildlife Act 1974) without the written approval of the Secretary	Include a commitment to not destroy damage or deface any known Aboriginal objects (as defined in the National Parks and Wildlife Act 1974) without the written approval of the Secretary	Section 3.4 includes a commitment to “avoid destruction, damage or defacement of any known Aboriginal objects (as defined under the NP&W Act 1974).
23. The Proponent shall revise the Aboriginal Cultural Heritage Management Plan for the Stage 1 project to encompass all proposed mine activities and potential impacts associated with Aboriginal cultural heritage management for the site (Stages 1 and 2) and subsequently implement this revised version of the Aboriginal Cultural Heritage Management Plan to the satisfaction of the Secretary. This plan must:	-	-
(c) include a protocol for the ongoing consultation and involvement of Aboriginal communities in the conservation and management of Aboriginal heritage on site; and	Include committed actions in the plan and revise words such as would to will.	Appendix K provides the NCOPL consultation and communication protocol. Would has been updated to will throughout the plan.

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Aspect	Action required	Response
d) describe the measures that would be implemented to protect Aboriginal sites on the mine site, (in particular all known Aboriginal sites on lands overlying Longwalls 1-3 and sites 10b, 38, 39 and 106-112), or any new Aboriginal objects or skeletal remains that are identified during the project. Partial Section 3.1.4 refers to Stage 3 which is subject to a different approval. There is no information on sites 10b, 38, 39 and 106-112. Include details on measures implemented to protect Aboriginal sites 10b, 38, 39 and 106-112. Remove references to Stage 3.	Include details on measures implemented to protect Aboriginal sites 10b, 38, 39 and 106-112.	All sites are referenced using the AHIMS reference for Stage 3.
General 4. DPIE is used as reference to the Department throughout the plan	Revise the plan accordingly.	Plan refers to DPE throughout.

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Appendix B - Compliance conditions relevant to this Plan

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Table B-1 SSD 10269 consent conditions directly relevant to this Plan

Condition	Requirement	Document reference
Obligation to minimise harm to the environment		
A1	In addition to meeting the specific performance measures and criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.	Section 6 Section 7 Section 8.2
Evidence of Consultation		
A20	Where conditions of this consent require consultation with an identified party, the Applicant must: (a) consult with the relevant party prior to submitting the subject document; and (b) provide details to the Department of the consultation undertaken including: (i) the outcome of that consultation, matters resolved and unresolved; and (ii) details of any matters not resolved between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.	Section 1.4 Appendix A
Staging, combining and updating strategies, plans or programs		
A21	With the approval of the Planning Secretary, the Applicant may:	
	(a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);	No staging of the ACHMP proposed
	(b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined);	No combining of ACHMP with another plan proposed
	(c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development); and	Section 9.3
	(d) combine any strategy, plan or program required by this consent with any similar strategy, plan or program required by an adjoining mining consent or approval, in common ownership or management.	No combining of ACHMP with another plan proposed
A22	Requirements under Part B of this consent to prepare a Water Management Plan, Biodiversity Management Plan and Aboriginal Cultural Heritage Management Plan may be satisfied through an Extraction Plan prepared under condition C8, but only in respect of the land, values and features that may be affected by the second workings covered by that Extraction Plan.	Section 1.2
A25	The Applicant must continue to apply existing management strategies, plans or monitoring programs approved under development consent 08_0144, until the approval of a similar plan, strategy or program under this consent.	
Compliance		

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Condition	Requirement	Document reference
A30	The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.	Section 2
Applicability of guidelines		
A31	References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of inclusion (or later update) in the condition.	Section 3.8
A32	However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may. In respect of ongoing monitoring and management obligations, agree to or require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or replacement of them.	
Protection of Aboriginal Heritage		
B47	The Applicant must ensure that the development does not cause any direct or indirect impact on any identified Aboriginal object located outside the approved disturbance area, beyond those predicted in the document/s listed in condition A2(c).	Section 6 Section 7
B48	If any previously unknown Aboriginal object or Aboriginal place is discovered on the site, or suspected to be on the site:	
	(a) all work in the immediate vicinity of the object or place must cease immediately;	Section 7.3 Appendix J
	(b) a 10m buffer area around the object or place must be cordoned off; and	
	(c) Heritage NSW must be contacted immediately.	
B49	Work in the immediate vicinity may only recommence if:	
	(a) the potential Aboriginal object is confirmed by Heritage NSW, in consultation with the Registered Aboriginal Parties, not to be an Aboriginal object or Aboriginal place;	Appendix J
	(b) the Aboriginal Cultural Heritage Management Plan is revised to include the Aboriginal object and appropriate measures in respect of it; or	
	(c) the Planning Secretary is satisfied with the measures to be implemented in respect of the Aboriginal object and makes a written direction in that regard.	
B50	The Applicant must ensure that all known Aboriginal objects or Aboriginal places on the site and within any offset areas are properly recorded, and those records are kept up to date, in the Aboriginal Heritage Information Management System (AHIMS).	Section 7.4 Appendix E
Aboriginal Cultural Heritage Management Plan		
B51	The Applicant must prepare an Aboriginal Cultural Heritage Management Plan for the development. The plan must:	
	(a) be prepared by suitably qualified and experienced person/s;	Section 1.4
	(b) be prepared in consultation with Heritage NSW and Registered Aboriginal Parties;	
	(c) describe the measures to be implemented on the site or within any offset area to:	
	(iii) comply with the Aboriginal cultural heritage-related operating conditions of this consent;	Section 6 Section 7

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Condition	Requirement	Document reference
		Appendix B
	(iv) ensure all workers receive suitable Aboriginal cultural heritage training/inductions prior to carrying out any activities which may cause impacts to Aboriginal objects or Aboriginal places, and that suitable records are kept of these inductions;	Section 7.6
	(v) protect, monitor and manage identified Aboriginal objects and Aboriginal places within the approved disturbance area in accordance with the commitments made in the document/s listed in condition A2(c);	Section 6 Section 7
	(vi) provide for appropriate archaeological investigation and recording of all identified Aboriginal objects within the approved disturbance area, with a particular focus on site Mayfield GG01;	Section 7.2 Section 7.3.3
	(vii) protect Aboriginal objects and Aboriginal places located outside the approved disturbance areas from impacts of the development;	Section 6.6
	(viii) manage the discovery of suspected human remains and any new Aboriginal objects, including provisions for burials, over the life of the development;	Appendix G Appendix J
	(ix) maintain and manage reasonable access for relevant Aboriginal stakeholders to visit Aboriginal objects and Aboriginal places located on land owned or controlled by the Applicant;	Section 6.4 Section 7.7 Appendix K
	(x) not restrict reasonable access for relevant Aboriginal stakeholders to visit Aboriginal objects and Aboriginal places located on land owned or controlled by the Applicant; and	
	(xi) facilitate ongoing consultation and involvement of Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site;	
	(d) include a strategy for the care, control and storage of Aboriginal objects salvaged on the site, both during the life of the development and in the long-term.	Section 7.5
B52	The Applicant must not commence construction until the Aboriginal Cultural Heritage Management Plan is approved by the Planning Secretary.	Section 1.2
B53	The Applicant must implement the Aboriginal Cultural Heritage Management Plan approved by the Planning Secretary.	
Adaptive management		
E4	The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and performance measures in this consent. Any exceedance of these criteria or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation. Where any exceedance of these criteria or performance measures has occurred, the Applicant must, at the earliest opportunity:	
	(a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;	Section 8.2
	(b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and	

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Condition	Requirement	Document reference
	(c) implement reasonable remediation measures as directed by the Planning Secretary.	
	to the satisfaction of the Planning Secretary.	
Management plan requirements		
E5	Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:	
	(a) a summary of relevant background or baseline data;	Section 4
	(b) details of:	
	(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);	Section 3 Appendix B Appendix C
	(ii) any relevant limits or performance measures and criteria; and	Section 6 Section 7
	(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	
	(c) any relevant commitments or recommendations identified in the document/s listed in condition A2(c);	Appendix C
	(d) a description of the management measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Section 6 Section 7
	(e) a program to monitor and report on the:	
	(i) impacts and environmental performance of the development; and	Section 7 Section 9
	(ii) effectiveness of the management measures set out pursuant to paragraph (d);	
	(f) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Appendix F Appendix G Appendix H Appendix I Appendix J
	(g) a program to investigate and implement ways to improve the environmental performance of the development over time;	Section 9.4
	(h) a protocol for managing and reporting any:	
	(i) incident, non-compliance or exceedance of any impact assessment criterion or performance criterion;	Section 8
	(ii) complaint; or	Section 10
	(iii) failure to comply with other statutory requirements;	Section 8.2
	(i) public sources of information and data to assist stakeholders in understanding environmental impacts of the development; and	Section 3.8 Section 11
	(j) a protocol for periodic review of the plan.	Section 9.3
E6	The Applicant must ensure that management plans prepared for the development are consistent with the conditions of this consent and any EPL issued for the site.	Appendix B

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Condition	Requirement	Document reference
Revision of strategies, plans and programs		
E7	Within three months of the: (a) submission of an incident report under condition E9 or E10; (b) submission of an Annual Review under condition E11; (c) submission of an Independent Environmental Audit under condition E13; (d) approval of any modification of the conditions of this consent (unless the conditions require otherwise); or (e) notification of a change in development phase under condition A14, the suitability of existing strategies, plans and programs required under this consent must be reviewed by the Applicant.	Section 9.3
E8	If necessary, to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review. <i>Note: This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.</i>	Section 9.3
Incident notification		
E9	The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing via the Department's Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.	Section 8.1
Non-compliance notification		
E10	Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The Notification must be in writing via the Department's Major Projects Website And identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance <i>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</i>	Section 8.2
Annual Review		
E11	By the end of March in each year after the commencement of the development, or other timeframe agreed by the Planning Secretary, a report must be submitted to the Department reviewing the environmental performance of the development, to the satisfaction of the Planning Secretary. This review must: (a) describe the development (including any rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year; (b) include a comprehensive review of the monitoring results and complaints record of the development over the previous calendar year, including a comparison of these results against the:	Section 9.1

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Condition	Requirement	Document reference
	(i) relevant statutory requirements, limits or performance measures/criteria; (ii) (requirements of any plan or program required under this consent; (iii) monitoring results of previous years; and (iv) relevant predictions in the document/s listed in condition A2(c); (c) identify any non-compliance or incident which occurred in the previous calendar year, and describe what actions were (or are being) taken to rectify the non-compliance and avoid reoccurrence; (d) evaluate and report on: (i) the effectiveness of the noise and air quality management systems; and (ii) compliance with the performance measures, criteria and operating conditions of this consent; (e) include an addendum report on Scope 1 and Scope 2 GHGE, which reports: (iii) annual methane and annual total CO2-e emissions (both categorised by source) and emissions intensity (based on ROM coal production); (iv) overall annual emissions intensity, benchmarked against representative industry sectors and the predictions in the EIS, and performance measures in Table 3; and (v) measures undertaken to minimise Scope 1 and Scope 2 GHGE, including actions under condition B19, and estimated reductions in CO2-e as a result of measures implemented; (f) identify any trends in the monitoring data over the life of the development; (g) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and (h) describe what measures will be implemented over the next calendar year to improve the environmental performance of the development.	
E12	Copies of the Annual Review must be submitted to the Mining Panel (via the Department as Secretariat), NSC and GSC and regulatory agencies and made available to the CCC and any interested person upon request.	Section 9.1
Independent Environmental Audit		
E13	Within one year of commencement of development under this consent, and every three years after, unless the Planning Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development.:	Section 9.2
E14	Within three months of commencing an Independent Environmental Audit, or other timeframe agreed by the Planning Secretary, the Applicant must submit a copy of the audit report to the Planning Secretary, and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Planning Secretary.	
Access to information		

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WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

Condition	Requirement	Document reference
E17	Before the commencement of construction until the completion of all rehabilitation required under this consent, the Applicant must:	
	(a) make the following information and documents (as they are obtained, approved or as otherwise stipulated within the conditions of this consent) publicly available on its website: (i) the documents referred to in condition A2(c) of this consent; (ii) all current statutory approvals for the development; (iii) all approved strategies, plans and programs required under the conditions of this consent; (iv) the proposed staging plans for the development if construction, mining operations or decommissioning is to be staged; (v) minutes of CCC meetings; (vi) regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent; (vii) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; (viii) a summary of the current phase and progress of the development; (ix) contact details to enquire about the development or to make a complaint; (x) a complaints register, updated monthly; (xi) the Annual Reviews of the development; (xii) audit reports prepared as part of any Independent Environmental Audit of the development and the Applicant's response to the recommendations in any audit report; (xiii) any other matter required by the Planning Secretary; and (b) keep such information up to date, to the satisfaction of the Planning Secretary.	Section 1.5 Section 8.1 Section 8.2 Section 9.1 Section 9.4 Section 10 Appendix B Appendix C

	NARRABRI MINE ENVIRONMENTAL MANAGEMENT SYSTEM	Document owner:	Environmental Superintendent
		Document approver:	Manager HSE
		Revision period:	3 years
		Revision:	0A
		Last revision date:	1 September 2022
WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

Appendix C - Key EIS Commitments

	NARRABRI MINE ENVIRONMENTAL MANAGEMENT SYSTEM	Document owner:	Environmental Superintendent
		Document approver:	Manager HSE
		Revision period:	3 years
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		Last revision date:	1 September 2022
WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

Table C-1 Key EIS Aboriginal cultural heritage commitments

Source	EIS commitments relevant to the ACHMP	Reference
ACHMP		
EIS section 6.11.4	The existing Narrabri Mine ACHMP will be updated to incorporate the recommended management strategies outlined in Appendix E [of the EIS].	Section 6 Section 7
EIS section 6.11.4	The Narrabri Mine ACHMP will remain in place for the life of the Project and define the tasks, scope and conduct of all Aboriginal cultural heritage management activities. The revised Narrabri Mine ACHMP will be developed in consultation with the RAPs.	Section 1.2 Section 1.4
Surface development footprint		
EIS section 6.11.4	NCOPL will maintain a record of known Aboriginal cultural heritage sites and mark these sites on relevant Project documentation and plans.	Section 7.4 Appendix E
EIS section 6.11.4	NCOPL will continue to implement a protocol for surface disturbance works to reduce the risk of accidental damage to known Aboriginal cultural heritage sites (i.e. demarcation of Aboriginal cultural heritage sites located in proximity to, but outside of, proposed disturbance areas).	Section 6.1 Section 6.6 Section 7.3 Appendix J
EIS section 6.11.4	Where practicable, known Aboriginal cultural heritage sites will be avoided during Project construction and operational works associated with components with flexible design.	Section 5.2 Section 6 Section 7.3
EIS section 6.11.4	The location of known Aboriginal cultural heritage sites will be considered during final detailed engineering designs of surface infrastructure.	Section 6.6
EIS section 6.11.4	Surface impacts will be avoided at the two grinding groove sites (Mayfield GG1 and Longsight GG1).	Section 6.1 Section 6.3 Section 6.6
EIS section 6.11.4	The precise location of surface infrastructure may change during detailed mine planning. Where changes to current design of the proposed Surface Development Footprint mean that avoidance of known Aboriginal cultural heritage sites is not practicable, the	Section 6.1

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WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

Source	EIS commitments relevant to the ACHMP	Reference
	site(s) will be subject to salvage of a representative collection of visible surface artefacts in consultation with the Aboriginal community, and an assessment undertaken whether the site is likely to hold in situ subsurface archaeological deposits that warrant excavation.	
EIS section 6.11.4	The protocol for the management of previously unidentified Aboriginal cultural heritage sites and/or human remains within the Narrabri Mine ACHMP will be implemented.	Appendix G Appendix J
EIS section 6.11.4	Protocols will be developed that prescribe the involvement of RAPs in cultural heritage works conducted under the Narrabri Mine ACHMP.	Appendix K
EIS section 6.11.4	A communication protocol will be developed that describes clear methods of communication, including expectations of suitable notification and response times between the proponent and the RAPs.	Appendix K
Potential impacts from subsidence		
EIS section 6.11.4	Where subsidence-related impacts such as surface cracking are identified within the boundary of an existing site of moderate (or high) scientific significance, or where remediation works are required to address subsidence impacts, the site will be inspected by a qualified archaeologist to determine the nature and extent of impacts, and whether mitigation is required or feasible.	Section 6.3
EIS section 6.11.4	Mitigation measures may include further monitoring, surface collection or open area salvage excavation (if feasible). Any proposed mitigation measures will be outlined in the revised Narrabri Mine ACHMP.	Section 6 Section 7 Appendix F
General mitigation measures		
EIS section 6.11.4	NCOPL will minimise the risk of inadvertent damage to Aboriginal cultural heritage sites by promoting an awareness of heritage conservation via the induction process.	Section 7.6
EIS section 6.11.4	A comprehensive Aboriginal Cultural Heritage Sites Database, which contains all relevant information of Aboriginal cultural heritage sites located at the Narrabri Mine and in the Project area, will be established and maintained for the life of the Project.	Section 7.4
EIS section 6.11.4	NCOPL will maintain ongoing consultation with the Aboriginal community over the life of the Project, including appropriate Aboriginal representation during archaeological fieldwork.	Section 7.3.1 Section 7.7 Appendix K
EIS section 6.11.4	NCOPL will provide opportunities for Aboriginal community members to access known Aboriginal cultural heritage sites located on NCOPL-owned land in accordance with relevant Work Health and Safety requirements.	Section 6.4

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Source	EIS commitments relevant to the ACHMP	Reference
		Appendix J
EIS section 6.11.4	Should any skeletal remains be identified during the course of the Project, work in that location will cease immediately and the find would be notified to the relevant authorities (including the NSW Police). Subject to the NSW Police requiring no further involvement, the management of any Aboriginal skeletal remains will be determined in consultation with Heritage NSW within the Department of Premier and Cabinet and the RAPs.	Section 6.4 Appendix G
Potential Impacts on Aboriginal Heritage Sites		
Submissions Report Section 4.2.11	Further investigation is proposed to be undertaken of Mayfield GG1 to determine potential connection to bedrock with a qualified archaeologist and RAPs.	Section 7.3.2
Investigations into Mayfield GG1 Aboriginal Cultural Heritage Site		
Submissions Report Section 4.2.11	NCOPL would also undertake any future test excavation and salvage programs in consultation with RAPs when preparing a revised Aboriginal Cultural Heritage Management Plan (post-Project approval).	Section 7.3.3
Registered Aboriginal Parties' Participation in Biodiversity Management and Rehabilitation Activities		
Submissions Report Section 4.2.11	NCOPL would consider ways for the RAPs to play a role in on-site biodiversity management activities or activities associated with rehabilitation of ground disturbance areas, post-Project approval.	Section 6.4 Section 7.3.4

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Appendix D - AHIMS Search Results



AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 2022-196a

Client Service ID : 668925

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
19-3-0084	Pine Creek T2/OS 1	GDA	55	774380	6623220	Open site	Valid	Artefact : 15		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0085	Pine Creek T2/IOS 1	GDA	55	774460	6623260	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0086	Pine Creek T2/OS 2	GDA	55	774680	6623380	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0087	Pine Creek T2/OS 3	GDA	55	774540	6623370	Open site	Valid	Artefact : 6		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0088	Pine Creek T2/OS 4	GDA	55	775150	6622600	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0089	Pine Creek T2/OS 5	GDA	55	775250	6623000	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0090	Pine Creek T2/OS 6	GDA	55	775170	6623200	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0091	Pine Creek T2/ISO 2	GDA	55	775100	6623230	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0092	Pine Creek T2/ISO 3	GDA	55	775000	6623380	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0093	Pine Creek T2/OS 7	GDA	55	775270	6623190	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0094	Pine Creek T2/AGG 1	GDA	55	775260	6623160	Open site	Valid	Grinding Groove : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0069	Pine Creek T1/OS 8	GDA	55	775670	6621610	Open site	Valid	Artefact : 11		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0070	Pine Creek T1/OS 9	GDA	55	775640	6621690	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0071	Pine Creek T1/OS 10	GDA	55	775700	6621640	Open site	Valid	Artefact : 4		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0072	Pine Creek T1/ISO 4	GDA	55	775780	6621690	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0073	Pine Creek T1/OS 11	GDA	55	775820	6621630	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0074	Pine Creek T1/OS 12	GDA	55	776130	6621700	Open site	Valid	Artefact : 7		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0075	Pine Creek T1/ISO 5	GDA	55	776180	6621690	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		

Report generated by AHIMS Web Service on 19/03/2022 for Matthew Whincop for the following area at Search using shape-file AHIMS_ML1609a with a buffer of 0 meters. Additional Info :
Management Plan (eg. Vegetation Management Plan). Number of Aboriginal sites and Aboriginal objects found is 102

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AHIMS Web Services (AWS)

Extensive search - Site list report

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Client Service ID : 668925

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
19-3-0084	Pine Creek T2/OS 1	GDA	55	774380	6623220	Open site	Valid	Artefact : 15		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0085	Pine Creek T2/IOS 1	GDA	55	774460	6623260	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0086	Pine Creek T2/OS 2	GDA	55	774680	6623380	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0087	Pine Creek T2/OS 3	GDA	55	774540	6623370	Open site	Valid	Artefact : 6		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0088	Pine Creek T2/OS 4	GDA	55	775150	6622600	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0089	Pine Creek T2/OS 5	GDA	55	775250	6623000	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0090	Pine Creek T2/OS 6	GDA	55	775170	6623200	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0091	Pine Creek T2/ISO 2	GDA	55	775100	6623230	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0092	Pine Creek T2/ISO 3	GDA	55	775000	6623380	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0093	Pine Creek T2/OS 7	GDA	55	775270	6623190	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0094	Pine Creek T2/AGG 1	GDA	55	775260	6623160	Open site	Valid	Grinding Groove : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0069	Pine Creek T1/OS 8	GDA	55	775670	6621610	Open site	Valid	Artefact : 11		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0070	Pine Creek T1/OS 9	GDA	55	775640	6621690	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0071	Pine Creek T1/OS 10	GDA	55	775700	6621640	Open site	Valid	Artefact : 4		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0072	Pine Creek T1/ISO 4	GDA	55	775780	6621690	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0073	Pine Creek T1/OS 11	GDA	55	775820	6621630	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0074	Pine Creek T1/OS 12	GDA	55	776130	6621700	Open site	Valid	Artefact : 7		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0075	Pine Creek T1/ISO 5	GDA	55	776180	6621690	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		

Report generated by AHIMS Web Service on 19/03/2022 for Matthew Whincop for the following area at Search using shape-file AHIMS_ML1609a with a buffer of 0 meters. Additional Info :
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		Revision period:	3 years
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WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			



AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 2022-196a

Client Service ID : 668925

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0096	Pine Creek T2/ISO 11	GDA	55	775760	6623060	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0097	Pine Creek T2/ISO 12	GDA	55	775640	6623290	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0098	Pine Creek T2/OS 25	GDA	55	775580	6623390	Open site	Valid	Artefact : 13		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0099	Pine Creek T2/OS 26	GDA	55	775660	6623500	Open site	Valid	Artefact : 5		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0100	Pine Creek T2/OS 27	GDA	55	775720	6623530	Open site	Valid	Artefact : 4		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0101	Pine Creek T2/OS 27.	GDA	55	775630	6623220	Open site	Valid	Artefact : 7		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0102	Pine Creek T2/OS 28	GDA	55	775640	6623140	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0093	Pine Creek T1/FP1	GDA	55	775080	6620610	Open site	Valid	Hearth : -		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0103	Pine Creek ISO 44	GDA	55	774191	6623362	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0104	Pine Creek ISO 45	GDA	55	774225	6623326	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0105	Pine Creek ISO 46	GDA	55	774223	6623302	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0106	Pine Creek OS 47	GDA	55	774254	6623273	Open site	Valid	Artefact : 5		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0107	Pine Creek OS 48	GDA	55	774286	6623232	Open site	Valid	Artefact : 5		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0108	Pine creek OS 49	GDA	55	774321	6623231	Open site	Valid	Artefact : 5		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0109	Pine Creek OS 50	GDA	55	774341	6623233	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0110	Pine Creek OS 51	GDA	55	773932	6623550	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0111	Pine Creek OS 52	GDA	55	773960	6623535	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0112	Pine Creek OS 53	GDA	55	773936	6623490	Open site	Valid	Artefact : 6		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0113	Pine Creek OS 54	GDA	55	774187	6623206	Open site	Valid	Shell : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0095	Kurrajong T1/OS 55	GDA	55	776560	6620006	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0096	Kurrajong T1/OS 56	GDA	55	776590	6620043	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0097	Kurrajong T1/ISO 57	GDA	55	776708	6620248	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0098	Kurrajong T1/OS 58	GDA	55	776558	6620297	Open site	Valid	Artefact : 4		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0099	Kurrajong T1/OS 59	GDA	55	776665	6620401	Open site	Valid	Artefact : 6		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0100	Kurrajong T1/OS 60	GDA	55	776400	6620467	Open site	Valid	Artefact : 4		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0101	Kurrajong T1/OS 61	GDA	55	776529	6620088	Open site	Valid	Artefact : 7		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0102	Kurrajong T1/OS 62	GDA	55	776503	6620048	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0103	Kurrajong T1/ISO 64	GDA	55	776419	6619946	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0104	Kurrajong T1/OS 65	GDA	55	776354	6619896	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0105	Kurrajong T1/OS 66	GDA	55	776046	6619560	Open site	Valid	Artefact : 4		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0106	Kurrajong T1/OS 67	GDA	55	776269	6619975	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0107	Kurrajong T1/ISO 68	GDA	55	776360	6619836	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton,Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0108	Kurrajong T1/OS 69	GDA	55	776353	6619843	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0109	Kurrajong T1/OS 70	GDA	55	776393	6619862	Open site	Valid	Artefact : 4		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0110	Kurrajong T1/OS 71	GDA	55	776453	6619769	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0111	Kurrajong T1/OS 72	GDA	55	776174	6619651	Open site	Valid	Artefact : 9		

Report generated by AHIMS Web Service on 19/03/2022 for Matthew Whincop for the following area at Search using shape-file AHIMS_ML1609a with a buffer of 0 meters. Additional Info :
Management Plan (eg. Vegetation Management Plan). Number of Aboriginal sites and Aboriginal objects found is 102

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 2022-196a

Client Service ID : 668925

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0112	Kurrajong T1/ISO 73	GDA	55	776111	6619633	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0113	Kurrajong T1/OS 74	GDA	55	776035	6619560	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0114	Kurrajong T1/OS 75	GDA	55	776054	6619757	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0115	Kurrajong T1/OS 76	GDA	55	776129	6619772	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0116	Kurrajong T1/ISO 77	GDA	55	776069	6619787	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0117	Kurrajong T1/OS 78	GDA	55	776021	6619792	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0118	Kurrajong T1/ISO 79	GDA	55	776219	6619775	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0119	Kurrajong T1/OS 80	GDA	55	776210	6619810	Open site	Valid	Artefact : 5		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0120	Kurrajong T1/ISO 81	GDA	55	774687	6619444	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0141	Kurrajong T1/OS 102	GDA	55	775044	6619434	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0161	Kurrajong T1/OS 63	GDA	55	776430	6619968	Open site	Valid	Artefact : 7		
	Contact	Recorders	Mr.John Appleton					Permits		
19-3-0153	Pine Creek ISO 125	GDA	55	774100	6623275	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-3-0154	Pine Creek ISO 124	GDA	55	774207	6623420	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-3-0155	Pine Creek ISO 126	GDA	55	773989	6623174	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-6-0166	Pine Creek T3 ISO 131	GDA	55	772841	6621434	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-3-0156	Turrawan Track ISO 128	GDA	55	772435	6624670	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-6-0167	Pine Creek T3 ISO 132	GDA	55	773063	6621692	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-6-0168	Pine Creek T3 OS 130	GDA	55	773065	6621721	Open site	Valid	Artefact : -		

Report generated by AHIMS Web Service on 19/03/2022 for Matthew Whincop for the following area at Search using shape-file AHIMS_ML1609a with a buffer of 0 meters. Additional Info :
Management Plan (eg. Vegetation Management Plan). Number of Aboriginal sites and Aboriginal objects found is 102

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 2022-196a

Client Service ID : 668925

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-6-0169	Pine Creek T1-AGG1	GDA	55	776000	6622361	Open site	Valid	Grinding Groove : -		
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-3-0157	Pine Creek OS 129	GDA	55	772831	6623540	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-3-0158	Pine Creek OS 127	GDA	55	773442	6623531	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
36-3-3319	Kurrajong T1 OS 136	GDA	55	775391	6619507	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Niche Environment and Heritage,Mr.Balazs Hansel					Permits		
19-6-0200	Westhaven AS1	GDA	55	775066	6619486	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0212	Claremont GG1	GDA	55	775711	6620205	Open site	Valid	Grinding Groove : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0213	NCM Stage 1 (7)	GDA	55	772759	6621273	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-3-0212	Pine Creek AS1	GDA	55	775030	6623319	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-3-0211	Pine Creek T1 ST2 (123)	GDA	55	774755	6623246	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-3-0207	Pine Tree Grove IA2	GDA	55	775608	6623084	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-3-0208	Pine Tree Grove IA1	GDA	55	775608	6623149	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-3-0209	Pine Tree Grove AS1	GDA	55	775535	6623132	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		

** Site Status

Valid - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.

Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground

Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

Report generated by AHIMS Web Service on 19/03/2022 for Matthew Whincop for the following area at Search using shape-file AHIMS_ML1609a with a buffer of 0 meters. Additional Info :
Management Plan (eg. Vegetation Management Plan). Number of Aboriginal sites and Aboriginal objects found is 102

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 2022-196b

Client Service ID : 668926

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
19-6-0121	Kurrajong T1/OS 82	GDA	55	774400	6619174	Open site	Valid	Artefact : 9		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0122	Kurrajong T1/OS 83	GDA	55	774312	6619099	Open site	Valid	Artefact : 7		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0123	Kurrajong T1/OS 84	GDA	55	774282	6619053	Open site	Valid	Artefact : 5		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0124	Kurrajong T1/OS 85	GDA	55	774250	6619003	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0125	Kurrajong T1/OS 86	GDA	55	774230	6618998	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0126	Kurrajong T1/ISO 87	GDA	55	774166	6618811	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0127	Kurrajong T1/OS 88	GDA	55	773570	6618800	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0128	Kurrajong T1/ISO 89	GDA	55	773971	6619030	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0129	Kurrajong T1/OS 90	GDA	55	774221	6619181	Open site	Valid	Artefact : 5		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0130	Kurrajong T1/OS 91	GDA	55	774975	6619298	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0131	Kurrajong T1/ISO 92	GDA	55	774954	6619212	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0132	Kurrajong T1/OS 93	GDA	55	774958	6619354	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0133	Kurrajong T1/OS 94	GDA	55	774955	6619330	Open site	Valid	Artefact : 6		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0134	Kurrajong T1/OS 95	GDA	55	774977	6619291	Open site	Valid	Artefact : 7		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0135	Kurrajong T1/OS 96	GDA	55	774877	6619178	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0136	Kurrajong T1/ISO 97	GDA	55	774783	6619064	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0137	Kurrajong T1/OS 98	GDA	55	774742	6618977	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0138	Kurrajong T1/OS 99	GDA	55	774697	6618941	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		

Report generated by AHIMS Web Service on 19/03/2022 for Matthew Whincop for the following area at Search using shape-file AHIMS_ML1609bMLA1_2 with a buffer of 0 meters. Additional Info : Management Plan (eg. Vegetation Management Plan). Number of Aboriginal sites and Aboriginal objects found is 62

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 2022-196b

Client Service ID : 668926

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
19-6-0139	Kurrajong T1/OS 100	GDA	55	774878	6619099	Open site	Valid	Artefact : 4		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0140	Kurrajong T1/ISO 101	GDA	55	774980	6619194	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0142	Kurrajong CR/OS 103	GDA	55	775195	6617782	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0143	Kurrajong CR/OS 104	GDA	55	775220	6617682	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0144	Kurrajong CR/OS 105	GDA	55	775233	6618102	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0145	Kurrajong CR/OS 106	GDA	55	775007	6616792	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0146	Kurrajong CR/OS 107	GDA	55	775020	6616744	Open site	Valid	Artefact : 34		
	Contact	Recorders	Mr.John Appleton					Permits		
19-6-0147	Kurrajong CR/OS 108	GDA	55	775185	6616760	Open site	Valid	Artefact : 12		
	Contact	Recorders	Mr.John Appleton,Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0148	Kurrajong CR/OS 109	GDA	55	775089	6616834	Open site	Valid	Artefact : 4		
	Contact	Recorders	Mr.John Appleton,Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0149	Kurrajong CR/OS 110	GDA	55	775119	6616801	Open site	Valid	Artefact : 3		
	Contact	Recorders	Mr.John Appleton,Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0150	Kurrajong CR/OS 111	GDA	55	775217	6616803	Open site	Valid	Artefact : 36		
	Contact	Recorders	Mr.John Appleton,Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0151	Kurrajong CR/OS 112	GDA	55	775248	6616821	Open site	Valid	Artefact : 50		
	Contact	Recorders	Mr.John Appleton,Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0180	Mayfield IA8	GDA	55	776106	6616942	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0181	Mayfield IA7	GDA	55	776022	6616822	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0182	Mayfield IA6	GDA	55	776000	6616959	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0183	Mayfield IA5	GDA	55	775765	6616937	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0184	Mayfield IA4	GDA	55	774562	6616300	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		
19-6-0185	Mayfield IA3	GDA	55	774521	6616263	Open site	Valid	Artefact : -		
	Contact	Recorders	Doctor.Matthew Whincop,Whincop Archaeology Pty Ltd					Permits		

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WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

Appendix E - Aboriginal cultural heritage sites

	NARRABRI MINE ENVIRONMENTAL MANAGEMENT SYSTEM	Document owner:	Environmental Superintendent
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WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

Table E-1 Aboriginal sites located within Narrabri Mine

AHIMS ID	Site name	Easting	Northing	Type	Scientific significance	Description
19-3-0084	Pine Creek T2/OS 1	774380	6623220	Artefact Scatter	Medium	15 artefacts in 8mx8m on eroding creek bank of Pine Creek plus additional artefact 30m to east.
19-3-0085	Pine Creek T2/ISO 1	774460	6623260	Isolated artefact	Low	Isolated find within 30m of creek bank.
19-3-0086	Pine Creek T2/OS 2	774680	6623380	Artefact Scatter	Low	4 artefacts in a 3mx3m area on an eroding creek bank.
19-3-0087	Pine Creek T2/OS 3	774540	6623370	Artefact Scatter	Medium	6 Artefacts over 8mx5m area of actively eroding creek bank plus ground edged axe 10 metres west.
19-3-0088	Pine Creek T2/OS 4	775150	6622600	Artefact Scatter	Low	3 artefacts over 2mx2m area adjacent to Pine Creek.
19-3-0089	Pine Creek T2/OS 5	775250	6623000	Artefact Scatter	Low	3 artefacts over 3mx2m area adjacent to track at creek crossing.
19-3-0090	Pine Creek T2/OS 6	775170	6623200	Artefact Scatter	Low	6 artefacts over 30mx10m area within horseshoe bend of creek.
19-3-0091	Pine Creek T2/ISO 2	775100	6623230	Isolated artefact	Low	Chert flaked piece within 10m of creek.
19-3-0092	Pine Creek T2/ISO 3	775000	6623380	Isolated artefact	Low	Quartz trimming flake (debitage) within 20m of creek.
19-3-0093	Pine Creek T2/OS 7	775270	6623190	Artefact Scatter	Low	2 artefacts (chert flakes) 2m apart 20m from creek.
19-3-0094	Pine Creek T2/AGG 1	775260	6623160	Grinding grooves	High	3 grooves on 2 floaters of sandstone within 50m of creek with hand axe near grooves
19-3-0095	Pine Creek T2/OS 24	775710	6622970	Artefact Scatter	Low	2 artefacts 20m apart. flakes 30m from creek.
19-3-0096	Pine Creek T2/ISO 11	775760	6623060	Isolated artefact	Low	Chert flake 35m from creek.
19-3-0097	Pine Creek T2/ISO 12	775640	6623290	Isolated artefact	Low	Chert flake in road 15m from drainage line and 50m from creek.
19-3-0098	Pine Creek T2/OS 25	775580	6623390	Artefact Scatter	High	13 artefacts in 20mx15m area over low rise 30m from creek.
19-3-0099	Pine Creek T2/OS 26	775660	6623500	Artefact Scatter	High	>100 artefacts contained within these coordinates, 30m from the creek, comprising flakes and flake pieces.
19-3-0100	Pine Creek T2/OS 27	775720	6623530	Artefact Scatter	Low	4 artefacts over 7mx5m area 10m from creek comprising flakes and flake pieces.
19-3-0101	Pine Creek T2/OS 27.	775630	6623220	Artefact Scatter	Low	7 artefacts over 10mx5m area 15m from creek comprising scrapers and flakes.
19-3-0102	Pine Creek T2/OS 28	775640	6623140	Artefact Scatter	Low	2 artefacts 5m apart comprising flakes 15m from creek.
19-3-0103	Pine Creek ISO 44	774191	6623362	Isolated artefact	Low	1 silcrete flake; 60m from creek.
19-3-0104	Pine Creek ISO 45	774225	6623326	Isolated artefact	Low	1 mudstone flake; 60m from creek. Additional 4 artefacts found
19-3-0105	Pine Creek ISO 46	774223	6623302	Isolated artefact	Low	1 mudstone flake; 70m from creek. 3 additional artefacts found
19-3-0106	Pine Creek OS 47	774254	6623273	Artefact Scatter	Low	2 flakes 3m apart; 3 additional artefacts found
19-3-0107	Pine Creek OS 48	774286	6623232	Artefact Scatter	Low	3 flakes in 3mx3m area 40m from creek. 3 additional artefacts found
19-3-0108	Pine Creek OS 49	774321	6623231	Artefact Scatter	Low	5 flakes in 10mx5m area; 30m from creek. 3 additional artefacts found
19-3-0109	Pine Creek OS 50	774341	6623233	Artefact Scatter	Low	3 flakes in and beside gully 20m from creek. 3 additional artefacts found
19-3-0110	Pine Creek OS 51	773932	6623550	Artefact Scatter	Low	3 flakes in 10mx5m area of dam wall.
19-3-0111	Pine Creek OS 52	773960	6623535	Artefact Scatter	Low	2 flakes 2m apart – all flakes; in dam wall. 2 additional artefacts found
19-3-0112	Pine Creek OS 53	773936	6623490	Artefact Scatter	Low	6 artefacts in 20mx5m area of dam wall; includes flakes and core.
19-3-0113	Pine Creek OS 54	774187	6623206	Artefact Scatter	Low	2 flakes 5m apart on dam wall.
19-3-0153	Pine Creek ISO 125	774100	6623275	Isolated artefact	Low	Isolated artefact on existing vehicle track; 100m from creek
19-3-0154	Pine Creek ISO 124	774207	6623420	Isolated artefact	Low	Isolated artefact on existing vehicle track; 25m from creek
19-3-0155	Pine Creek ISO 126	773989	6623174	Isolated artefact	Low	Isolated artefact on existing vehicle track; 160m from creek.

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WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

AHIMS ID	Site name	Easting	Northing	Type	Scientific significance	Description
19-3-0156	Turrawan Track ISO 128	772435	6624670	Isolated artefact	Low	Isolated artefact on existing vehicle track, 20m from creek
19-3-0157	Pine Creek OS 129	772831	6623540	Artefact Scatter	Low	4 artefacts in 15mx10m area; Pine Creek directly north
19-3-0158	Pine Creek OS 127	773442	6623531	Artefact Scatter	Low	5 artefacts in 10mx5m area; 20m from creek
19-3-0207	Pine Tree Grove IA2	775608	6623149	Isolated artefact	Low	Isolated stone artefact on elevated area south of creek line
19-3-0208	Pine Tree Grove IA1	775608	6623084	Isolated artefact	Low	Isolated broken flake artefact on elevated area
19-3-0209	Pine Tree Grove AS1	775535	6623132	Artefact Scatter	Low	5 artefacts located in Pine Tree grove
19-3-0211	Pine Creek T1 ST2 123	774755	6623246	Scarred Tree	High	Genuine looking scar with modern surveyors' markings
19-3-0212	Pine Creek AS1	775030	6623319	Artefact Scatter	Low	2 artefacts located in vicinity of Pine Creek
19-6-0069	Pine Creek T1/OS 8	775670	6621610	Artefact Scatter	Low	4 artefacts over 30mx2m area within 20m of creek comprising core and flakes.
19-6-0070	Pine Creek T1/OS 9	775640	6621690	Artefact Scatter	Low	3 chert cores over 2mx2m area.
19-6-0071	Pine Creek T1/OS 10	775700	6621640	Artefact Scatter	Low	4 artefacts over 30mx2m area comprising core and flakes.
19-6-0072	Pine Creek T1/ISO 4	775780	6621690	Isolated artefact	Low	Flaked piece of chert within 20m of creek.
19-6-0073	Pine Creek T1/OS 11	775820	6621630	Artefact Scatter	Low	2 artefacts 3m apart, core and flake.
19-6-0074	Pine Creek T1/OS 12	776130	6621700	Artefact Scatter	Low	7 Artefacts over 30mx3m area within 20m of creek.
19-6-0075	Pine Creek T1/ISO 5	776180	6621690	Isolated artefact	Low	Chert flake 10m from creek.
19-6-0076	Pine Creek T1/OS 13	776200	6621700	Artefact Scatter	Low	4 artefacts
19-6-0077	Pine Creek T1/OS 14	776250	6621700	Artefact Scatter	Low	18 artefacts over 20mx20m area including collapsed wall of dam.
19-6-0078	Pine Creek T1/ST 1	776400	6621660	Scarred Tree	Low	RAPs advised during December 2014 that this is not a scarred tree. Further consultation will be required to remove from AHIMS.
19-6-0079	Pine Creek T1/ISO 6	776600	6621740	Isolated artefact	Low	Chert flake within 30m of creek.
19-6-0080	Pine Creek T1/OS 15	776050	6621620	Artefact Scatter	Low	5 artefacts over 15mx5m area south of the wall of a dam.
19-6-0081	Pine Creek T1/OS 16	776100	6621620	Artefact Scatter	Low	3 flakes over 25mx1m area, 30-40m from creek.
19-6-0082	Pine Creek T1/OS 17	776130	6621450	Artefact Scatter	Low	2 artefacts in vehicle track crossing creek comprising core and flake.
19-6-0083	Pine Creek T1/ISO 7	775980	6621270	Isolated artefact	Low	Chert flake at junction of drainage line with creek.
19-6-0084	Pine Creek T1/ISO 8	776020	6621260	Isolated artefact	Low	Chert flake at junction of drainage line with creek.
19-6-0085	Pine Creek T1/OS 18	776010	6621200	Artefact Scatter	Low	2 flakes 3m apart
19-6-0086	Pine Creek T1/ISO 9	775900	6621080	Isolated artefact	Low	Flake at junction of drainage channel and creek.
19-6-0087	Pine Creek T1/ISO 10	775780	6620780	Isolated artefact	Low	Core at junction of drainage channel and creek.
19-6-0088	Pine Creek T1/OS 19	775690	6620800	Artefact Scatter	Low	2 artefacts 4m apart on gully bank.
19-6-0089	Pine Creek T1/OS 20	775730	6620740	Artefact Scatter	Low	3 artefacts in 5mx1m area. Core and flakes within gully bank.
19-6-0090	Pine Creek T1/OS 21	776250	6621480	Artefact Scatter	Low	Core and flake 10m apparat and 40m from creek.
19-6-0091	Pine Creek T1/OS 22	776250	6621510	Artefact Scatter	Low	2 flakes 15m apart, 12m from creek.
19-6-0092	Pine Creek T1/OS 23	776270	6621560	Artefact Scatter	Low	4 flakes 15m apart, 10m from creek.
19-6-0093	Pine Creek T1/FP1	775080	6620610	Hearth	High	3 hearths identified in washout beside road approx. 40m from drainage line.
19-6-0095	Kurrajong T1/OS 55	776560	6620006	Artefact Scatter	Low	2 artefacts 15m apart, 30m from creek, includes flake and core
19-6-0096	Kurrajong T1/OS 56	776590	6620043	Artefact Scatter	Low	2 artefacts 15m apart, 25m from creek, includes flake and core

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AHIMS ID	Site name	Easting	Northing	Type	Scientific significance	Description
19-6-0097	Kurrajong T1/ISO 57	776708	6620248	Isolated artefact	Low	1 metasedimentary flake, 20m from creek
19-6-0098	Kurrajong T1/OS 58	776558	6620297	Artefact Scatter	Low	4 artefacts in 15mx15m area, 15m from creek, includes flakes and core
19-6-0099	Kurrajong T1/OS 59	776665	6620401	Artefact Scatter	Low	6 artefacts in 20mx15m area, 25m from creek, includes cores and flakes
19-6-0100	Kurrajong T1/OS 60	776400	6620467	Artefact Scatter	Low	4 artefacts in 30mx3m area, 20m from creek, includes core, flakes and potential hammer stone
19-6-0101	Kurrajong T1/OS 61	776529	6620088	Artefact Scatter	Low	7 artefacts in 20mx15m area, 20m from creek, includes cores and flakes
19-6-0102	Kurrajong T1/OS 62	776503	6620048	Artefact Scatter	Low	3 artefacts in 20mx5m area, 15m from creek, includes cores and flake
19-6-0103	Kurrajong T1/ISO 64	776419	6619946	Isolated artefact	Low	1 metasedimentary flake, 15m from creek
19-6-0104	Kurrajong T1/OS 65	776354	6619896	Artefact Scatter	Low	2 flakes 2m apart, 50m from creek
19-6-0105	Kurrajong T1/OS 66	776046	6619560	Artefact Scatter	Low	4 flakes in 20mx20m area, 100m from creek
19-6-0106	Kurrajong T1/OS 67	776269	6619975	Artefact Scatter	Low	2 flakes 15m apart, 200m from creek (top of knoll)
19-6-0107	Kurrajong T1/ISO 68	776360	6619836	Isolated artefact	Low	1 metasedimentary flake piece, dam wall.
19-6-0108	Kurrajong T1/OS 69	776353	6619843	Artefact Scatter	Low	3 flakes in 15mx2m strip, edge of paddock
19-6-0109	Kurrajong T1/OS 70	776393	6619862	Artefact Scatter	Low	4 flakes, edge of dam
19-6-0110	Kurrajong T1/OS 71	776453	6619769	Artefact Scatter	Low	2 flakes 3m apart, edge of dam
19-6-0111	Kurrajong T1/OS 72	776174	6619651	Artefact Scatter	Low	9 flakes, 70m from creek
19-6-0112	Kurrajong T1/ISO 73	776111	6619633	Isolated artefact	Low	1 chert flake, 100m from creek
19-6-0113	Kurrajong T1/OS 74	776035	6619560	Artefact Scatter	Low	2 flakes 5m apart, 100m from creek
19-6-0114	Kurrajong T1/OS 75	776054	6619757	Artefact Scatter	Low	3 flakes 5mx3m area, 50m from creek
19-6-0115	Kurrajong T1/OS 76	776129	6619772	Artefact Scatter	Low	2 flakes 10m apart, 60m from creek
19-6-0116	Kurrajong T1/ISO 77	776069	6619787	Isolated artefact	Low	1 chert flake, 80m from creek
19-6-0117	Kurrajong T1/OS 78	776021	6619792	Artefact Scatter	Low	3 flakes in 15mx10m area, 100m from creek
19-6-0118	Kurrajong T1/ISO 79	776219	6619775	Isolated artefact	Low	1 chert flake, 50m from creek
19-6-0119	Kurrajong T1/OS 80	776210	6619810	Artefact Scatter	Low	5 flakes along 15m narrow track, 80m from creek
19-6-0120	Kurrajong T1/ISO 81	774687	6619444	Isolated artefact	Low	1 metasedimentary flake, 30m from creek
19-6-0121	Kurrajong T1/OS 82	774400	6619174	Artefact Scatter	Low	9 flakes in 30mx20m area, 30m from creek
19-6-0122	Kurrajong T1/OS 83	774312	6619099	Artefact Scatter	Low	7 flakes in 30mx20m area, 30m from creek
19-6-0123	Kurrajong T1/OS 84	774282	6619053	Artefact Scatter	Low	5 flakes in 10m*5m area, 40m from creek
19-6-0124	Kurrajong T1/OS 85	774250	6619003	Artefact Scatter	Low	3 artefacts in 10mx5m area, 30m from creek, flakes and core
19-6-0125	Kurrajong T1/OS 86	774230	6618998	Artefact Scatter	Low	2 flakes 5m apart 20m from creek
19-6-0126	Kurrajong T1/ISO 87	774166	6618811	Isolated artefact	Low	1 flake piece, 40m from drainage line
19-6-0127	Kurrajong T1/OS 88	773570	6618800	Artefact Scatter	Low	2 flakes 10m apart, 20m from creek
19-6-0128	Kurrajong T1/ISO 89	773971	6619030	Isolated artefact	Low	1 metasedimentary flake, 25m from creek
19-6-0129	Kurrajong T1/OS 90	774221	6619181	Artefact Scatter	Low	5 artefacts in 40mx3m strip, inner dam face, includes cores and flakes
19-6-0130	Kurrajong T1/OS 91	774975	6619298	Artefact Scatter	Low	2 artefacts 10m apart, 40m from creek, includes core and flake
19-6-0131	Kurrajong T1/ISO 92	774954	6619212	Isolated artefact	Low	1 metasedimentary flake, 75m from creek

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19-6-0132	Kurrajong T1/OS 93	774958	6619354	Artefact Scatter	Low	2 flakes in 40mx3m strip, inner dam face
19-6-0133	Kurrajong T1/OS 94	774955	6619330	Artefact Scatter	Low	6 flakes in 25mx25m area, 30m from creek
19-6-0134	Kurrajong T1/OS 95	774977	6619291	Artefact Scatter	Low	7 artefacts in 20mx20m area, 40m from creek, includes flakes and cores
19-6-0135	Kurrajong T1/OS 96	774877	6619178	Artefact Scatter	Low	3 artefacts in 15mx15m area, inner dam face
19-6-0136	Kurrajong T1/ISO 97	774783	6619064	Isolated artefact	Low	1 metasedimentary flake, 20m from creek
19-6-0137	Kurrajong T1/OS 98	774742	6618977	Artefact Scatter	Low	2 artefacts 10m apart, 40m from creek, includes core and flake
19-6-0138	Kurrajong T1/OS 99	774697	6618941	Artefact Scatter	Low	2 artefacts 15m apart, 40m from creek, includes core and flake
19-6-0139	Kurrajong T1/OS 100	774878	6619099	Artefact Scatter	Low	4 flakes in 15mx15m area, 20m from creek
19-6-0140	Kurrajong T1/ISO 101	774980	6619194	Isolated artefact	Low	1 quartz flake, 30m from creek
19-6-0141	Kurrajong T1/OS 102	775044	6619434	Artefact Scatter	Low	3 flakes in 20mx20m area, 50m from creek
19-6-0142	Kurrajong CR/OS 103	775195	6617782	Artefact Scatter	Low	3 cores in 30mx30m area, 80m from creek
19-6-0143	Kurrajong CR/OS 104	775220	6617682	Artefact Scatter	Low	3 artefacts in 30mx30m area, 150m from creek, included cores and flake
19-6-0144	Kurrajong CR/OS 105	775233	6618102	Artefact Scatter	Low	2 flakes in 20mx20m area, 150m from creek
19-6-0145	Kurrajong CR/OS 106	775007	6616792	Artefact Scatter	Medium	3 flakes in 40mx15m strip, 30m from creek
19-6-0146	Kurrajong CR/OS 107	775020	6616744	Artefact Scatter	Medium	34 artefacts in 40mx40m area, 150m from creek, included flakes and cores
19-6-0161	Kurrajong T1/OS 63	776430	6619968	Artefact Scatter	Low	7 flakes in 30mx5m area, 15m from creek
19-6-0166	Pine Creek T3 ISO 131	772841	6621434	Isolated artefact	Low	Isolated artefact on west bank of 2nd order ephemeral creek of Pine Creek
19-6-0167	Pine Creek T3 ISO 132	773063	6621692	Isolated artefact	Low	Isolated artefact on west bank of 2nd order ephemeral creek of Pine Creek
19-6-0168	Pine Creek T3 OS 130	773065	6621721	Artefact Scatter	Medium	20+ artefact scatter located on west bank of 2nd order ephemeral creek of Pine Creek
19-6-0169	Pine Creek T1-AGG1	776000	6622361	Grinding grooves	High	6 grinding grooves located on 3 sandstone platforms
19-6-0180	Mayfield IA8	776106	6616942	Isolated artefact	Low	1 chert flake
19-6-0181	Mayfield IA7	776022	6616822	Isolated artefact	Low	1 chert flake
19-6-0182	Mayfield IA6	776000	6616959	Isolated artefact	Low	1 silcrete flake
19-6-0183	Mayfield IA5	775765	6616937	Isolated artefact	Low	1 silcrete flake
19-6-0184	Mayfield IA4	774562	6616300	Isolated artefact	Low	1 silcrete flake
19-6-0185	Mayfield IA3	774521	6616263	Isolated artefact	Low	1 silcrete flake
19-6-0186	Mayfield IA2	774346	6616392	Isolated artefact	Low	1 chert flake
19-6-0187	Mayfield IA1	774385	6615811	Isolated artefact	Low	1 silcrete core
19-6-0188	Mayfield IA9	776209	6616953	Isolated artefact	Low	1 silcrete flake
19-6-0189	Mayfield IA10	776579	6617467	Isolated artefact	Low	1 silcrete flake
19-6-0190	Mayfield IA11	776365	6617307	Isolated artefact	Low	1 silcrete flake
19-6-0191	Mayfield GG1	774227	6617543	Grinding Grooves	Medium	48 x grinding grooves within 23m x 15m area
19-6-0192	Mayfield AS13	775312	6616894	Artefact Scatter	Medium	132 artefacts within 300m x 120m
19-6-0193	Mayfield AS12	776550	6617367	Artefact Scatter	Medium	130 artefacts within 250m x 150m
19-6-0194	Mayfield AS11	776519	6617035	Artefact Scatter	Low	2 chert flakes, and 1 silcrete flake

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19-6-0195	Mayfield AS10	776515	6616966	Artefact Scatter	Low	2 silcrete flakes and 2 angular fragments
19-6-0196	Mayfield AS8	775820	6616892	Artefact Scatter	Low	2 silcrete flakes
19-6-0197	Mayfield AS9	776481	6616837	Artefact Scatter	Low	11 artefacts within 20m x 100m
19-6-0198	Mayfield AS7	775709	6617249	Artefact Scatter	Low	1 chert flake, 1 silcrete flake and 1 silcrete distal flake
19-6-0199	Mayfield AS6	775515	6616874	Artefact Scatter	Low	25 features within 80m x 40m scatter
19-6-0200	Westhaven AS1	775066	6619486	Artefact Scatter	Low	4 artefacts
19-6-0201	Pillaga IA1	773559	6613083	Isolated artefact	Low	1 mudstone flake
19-6-0202	Mayfield AS2	773257	6615382	Artefact Scatter	Low	2 silcrete flakes and 1 chert flake
19-6-0203	Mayfield AS1	773265	6615279	Artefact Scatter	Low	28 artefacts within 40mx35m area
19-6-0204	Mayfield AS3	773853	6615567	Artefact Scatter	Low	5 artefacts
19-6-0205	Mayfield AS4	773965	6615658	Artefact Scatter	Low	28 artefacts
19-6-0206	Mayfield AS5	774587	6616229	Artefact Scatter	Low	1 Mudstone flake and 1 chert flake
19-6-0207	Westhaven IA1	775119	6619233	Isolated artefact	Low	1 chalcedony flake
19-6-0208	Merrilong IA2	774642	6616060	Isolated artefact	Low	1 silcrete flake
19-6-0209	Merrilong IA1	774804	6616341	Isolated artefact	Low	1 chert flake
19-6-0210	Longsight GG1	775534	6613612	Grinding Grooves	Low	Two grinding grooves identified in small sandstone outcrop within drainage line
19-6-0211	Karinda IA1	774922	6611861	Isolated artefact	Low	Siltstone distal flake
19-6-0212	Claremont GG1	775711	6620205	Grinding Groove	Low	Single grinding groove identified on sandstone
19-6-0213	NCM Stage 1 (7)	772759	6621273	Scarred Tree	Medium	A single cultural scar on a fallen tree
19-6-0214	NCM Stage 1 (6)	779673	6619677	Isolated artefact	Low	1 silcrete flake located in agricultural paddock
19-6-0215	NCM Stage 1 (5)	778859	6620615	Artefact Scatter	Low	3 Chert flakes exposed by small gully erosion joining the creek
19-6-0216	NCM Stage 1 (4)	778338	6620931	Artefact Scatter	Low	Low density scatter exposed by the erosion of the creek terrace. >10 artefacts within a 20m radius, including flakes and cores.
19-6-0217	NCM Stage 1 (3)	778098	6621242	Scarred Tree	Low	Dead tree, with upper half broken off and lying on ground. The cultural scar is approximately 104cm x 30cm
19-6-0218	NCM Stage 1 (2)	778351	6621156	Artefact Scatter	Low	Low density scatter located on the edge of the creek terrace. 12 flakes were identified within a 10m radius
19-6-0219	NCM Stage 1 (1)	778770	6620785	Resource site	Low	Wild orange trees, a native food resource
36-3-3319	Kurrajong T1 OS 136	775391	6619507	Artefact Scatter	Low	11 artefacts within 50m x 20m

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Appendix F - Site salvage procedure

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Site salvage procedure

In the event that identified sites cannot be avoided, the following site salvage procedure will be followed:

1. Seek the written approval of the Planning Secretary prior to commencing any salvaging works and apply for a 'Transfer of Aboriginal Objects' permit required by s85A of the NP&W Act.
2. Peg the location of the site to be salvaged.
3. Commission an archaeologist and invite representatives from the RAPs to salvage all visible artefacts by hand collection or excavation if warranted (e.g. undisturbed subsurface deposits are likely to exist).
4. The archaeologist will provide a Salvage Report outlining the results of the salvage activity, including a list and basic description of artefacts collected. The report will also provide recommendations for further detailed analysis, if warranted by the nature of the salvage activity (e.g., if artefacts were excavated from an undisturbed subsurface deposit associated with a rare or unusual cultural feature or object). When undertaken, artefact analysis will be completed within 6 months of the salvage program, and a short report outlining the results of the analysis prepared upon completion of the analysis.
5. Place the salvaged material in the care and control, requiring authorisation under a Care Agreement, of the Aboriginal organisation agreed by the RAPs. Narrabri Mine has agreed to provide a 'Keeping Place' within the Mining Leases.
6. Provide copies of the Salvage Report to DPE, the RAPs and Heritage NSW within 12 months of completing the salvage.

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Appendix G - Discovery of possible human remains procedure

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Discovery of possible human remains procedure

If potential human remains or burial are discovered, the Coroners Act 2009 requires that all works cease, and the NSW Police and the NSW Coroners Court be contacted. Should any potential human bone(s) be uncovered or potential burials be identified by NCOPL personnel or contractors, the following procedure will be followed:

1. All work surrounding the area must cease immediately, and the area must be secured with a 50m buffer area around the object or place to cordon off and the relevant Supervisor notified. Work can continue beyond the 50 m buffer.
2. Notify the Environmental Superintendent who will notify the General Manager;
3. The Environmental Superintendent will immediately notify NSW Police and Heritage NSW on (02) 9873 8500 or EPA Environment Line on 131 555 to advise that potential human remains or a burial have been discovered and that the police have been notified.
4. the Environmental Superintendent will contact the RAPs to notify them that potential human remains and/or a burial have been discovered.
5. the Environmental Superintendent will implement any requirements of the police to protect the area of the find.
6. traditional Aboriginal burials which occur outside designated cemeteries are protected under the NP&W Act and should not be disturbed. Interpreting the age and nature of skeletal remains is a specialist field and an appropriately skilled archaeologist or physical anthropologist should be engaged to inspect the find and recommend an appropriate course of action. NCOPL will engage a suitably qualified person to clearly identify the remains or burial.
7. should the remains prove to be Aboriginal in origin, notification of Heritage NSW and the Local Aboriginal Land Council will be required, in accordance with the NP&W Act (notification should also be made to the Commonwealth Minister for the Environment, under the provisions of the *Aboriginal and Torres Strait Islander Heritage Protection Act 1984*).
8. do not recommence work in the area until authorised by NSW Police and Heritage NSW.

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 NP&W Act (as amended).

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Appendix H - Salvage and curation of scarred trees procedure

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Salvage and curation of scarred trees procedure

Any trees identified as having a culturally made scar(s) on the mine site will be retained in situ. NCOPL is committed to avoiding all culturally scarred trees, although this may not be possible for any newly identified trees (depending upon their location). Where this is not possible, the following procedure, based on an industry best practice scarred tree removal and relocation procedure (Rio Tinto Coal Australia, 2008), for salvage and curation will be followed:

1. Pre-removal preparation:

- prior to salvaging a scarred tree consultation will be undertaken with the RAPs which will include the methodology, the location of the keeping place and RAP representative involvement;
- a qualified arborist will be engaged to plan, conduct and direct the tree removal works;
- a qualified archaeologist will also be engaged to attend the removal to address potential archaeological issues, such as identifying new artefacts during tree removal;
- a pre-removal meeting will be held onsite with the identified people above; and
- advice from the RAPs will be sought as to whether, in the circumstances, a gender balance (male/female) is required.

2. Removal/relocation:

The following is a guide to removal/relocation but the process is subject to the arborist's recommendations:

- prepare access and safe work area;
- wrap carpet or similar around scar for protection;
- erect elevated platform to remove overhanging branches/limbs (if required);
- attach lift swing;
- use backhoe/excavator to trench around tree in order to expose the trunk above the roots;
- once the trench has been dug and the base of bole cut, use a crane or similar to remove the tree from the trench;
- load the tree on a truck, or similar, for transportation to the agreed keeping place for storage; and
- tree can then be cleaned and cared for including application of pest control.

3. Storage:

Consultation undertaken with the RAPs will have established an appropriate storage location/facility for the salvaged tree(s). This may be a large shed or container. Trees will be placed on non-timber based sleepers such as high strength concrete block or plinths. The storage facility must be of sufficient size to adequately store and maintain the number and sizes of all removed trees. The facility must be suitable for enabling cleaning and maintenance of the trees. A tag, identifying the tree, including AHIMS ID will be placed on the tree. In addition, a barrier layer of acrylic resin at the base or other suitable area of the tree and an indelible pigment-based pen will be used to apply the registration number of the scarred tree.

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4. Management/preservation:

Preservation – Cleaning

Many trees suffer from termite activity and rotting which subsequently hollows the tree's trunk. Therefore, all termite detritus will be cleared from the inside of the trunk and the outer surface. Termite detritus will be removed using brushes and probes and then vacuumed. Insects recovered during this process will be identified to determine an appropriate eradication procedure. Insect traps such as glue pads will be placed throughout the storage container or shed.

Preservation – Seasoning

Should the scarred tree that is salvaged be a living or 'green' tree it must be stored indoors until the moisture content is below 20%. Trees with a moisture content less than 20% are unlikely to support decay fungi degradation and should also be relatively physically stable. In dry conditions, the trees will age and season readily.

Once seasoned, high temperatures should not affect the trees, however 'green' humidity may obstruct the drying process. Humidity indicators and moisture detection strips may be used as a guide to ventilation requirements. Such requirement may be as simple as opening the container or shed doors on a dry day. The scarred trees will be monitored regularly (monthly) during the initial stages of their storage.

Prior to salvaging scarred trees on-site in accordance with the above procedure the mine will seek the approval of the Planning Secretary nominating the tree(s) to be salvaged/stored.

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Appendix I - Accidental damage to known sites procedure

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Accidental damage to known sites procedure

In the event that inadvertent damage occurs to any Aboriginal site or artefact, the following procedure will be implemented:

1. Work will cease immediately in the area of impact.
2. The person causing/discovering the impact will notify their superior who will ensure that work has ceased and area(s) is(are) cordoned off with tape.
3. The supervisor will notify the Environmental Superintendent. The Environmental Superintendent will:
 - (a) Notify DPE as soon as practicable, as required by the CoC and in accordance with section 8.1 of this ACHMP.
 - (b) Initiate an incident investigation to determine the cause and the extent of the impact.
 - (c) Request a qualified archaeologist and the RAPs to attend the site and advise on mitigation/management options for the impacted area.
4. Should it be required, and subject to the recommendations of the archaeologist and the RAPs, the appropriate permit to salvage the impacted Aboriginal items will be applied for with approval of the Planning Secretary (see Appendix D).
5. The Environmental Superintendent will implement any other procedures or recommendations issued by DPE and/or the RAPs.
6. If required following the incident, this ACHMP will be revised, in consultation with the Heritage NSW and RAPs, and submitted to DPE for review and approval.

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Appendix J - Unidentified Aboriginal cultural heritage sites procedure

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Unidentified Aboriginal cultural heritage sites procedure

Although Narrabri Mine was comprehensively surveyed, there remains potential for additional Aboriginal cultural heritage sites to be identified. Such previously unidentified features, should they occur, are likely to be additional isolated artefacts, low density concentrations of stone artefacts or, to a lesser degree, additional axe grinding grooves. In the event of the discovery of a potential Aboriginal site, the following procedure will be implemented:

1. All work in the immediate vicinity of the object or place must cease immediately.
2. If the area of discovery is in deposited material, then work will also cease in the area where the material originated from.
3. The person discovering the artefact will notify their superior who will ensure that work has ceased and a 10m buffer area around the object or place must be cordoned off.
4. The supervisor will notify the Environmental Superintendent. The Environmental Superintendent will immediately contact Heritage NSW.
5. The Environmental Superintendent will then:
 - (d) request a qualified archaeologist to attend the site and advise on its archaeological significance;
 - (e) request the site monitor from the RAPs (if not already present) to attend and advise on its cultural significance in consultation with the qualified archaeologist; and
 - (f) if the find is determined to be a site, notify Heritage NSW with the advice from the archaeologist and the RAPs as soon as practicable for determination of further management procedures.
6. If the find is confirmed as a site, the archaeologist will complete a Sites Register Card and forward to Heritage NSW via the AHIMS database.
7. Subject to the recommendations of the archaeologist and the RAPs, the appropriate permit to transfer (under section 85A of the NP&W Act) will be applied for prior to further work being undertaken in the vicinity of the site. Any such action to disturb or transfer Aboriginal items will also require the development of excavation and/or salvage plans, which require the approval of the Director-General, in consultation with Heritage NSW.
8. The Environmental Superintendent will then implement any other procedures or recommendations issued by Heritage NSW.

Work in the immediate vicinity may only recommence if:

- the potential Aboriginal site is confirmed by Heritage NSW, in consultation with the RAPs, not to be an Aboriginal object or Aboriginal place;
- the ACHMP is revised to include the Aboriginal site and appropriate measures in respect of it; or
- the Planning Secretary is satisfied with the measures to be implemented in respect of the Aboriginal site and makes a written direction in that regard.

	NARRABRI MINE ENVIRONMENTAL MANAGEMENT SYSTEM	Document owner:	Environmental Superintendent
		Document approver:	Manager HSE
		Revision period:	3 years
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WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

Appendix K - Consultation and communication protocol

	NARRABRI MINE ENVIRONMENTAL MANAGEMENT SYSTEM	Document owner:	Environmental Superintendent
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WHC_PLN_NAR_ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN			

Consultation and communication protocol

NCOPL is committed to involving the local Aboriginal community as an integral participant in the management of Aboriginal cultural heritage values at Narrabri Mine. In this regard, NCOPL proposes to maintain ongoing consultation with the Aboriginal community over the life of the mine, including appropriate Aboriginal representation during archaeological fieldwork (e.g., collection of artefacts prior to disturbance). A protocol has been developed that prescribe the involvement of the RAPs in cultural heritage works conducted under this ACHMP.

NCOPL will provide opportunities for Aboriginal community members to access known Aboriginal cultural heritage sites located on NCOPL-owned land (e.g., for cultural reasons or as part of scheduled field activities) in accordance with relevant Work Health and Safety requirements.

The following protocol will be followed with respect to ongoing consultation and communication:

1. Prior to any activity proposed to disturb any areas not previously disturbed or inspected by RAPs, the Environmental Superintendent will notify the respective Managers of the RAPs and advise the extent, location, and expected duration of the proposed disturbance activity and request a representative of the RAPs to act as the Cultural Heritage Monitor.
2. At the request of the RAPs, the Environmental Superintendent, or authorised delegate, will avail himself/herself to attend community meetings of the RAPs or to arrange site visits for interested RAPs.
3. In the event that any possible archaeological sites are identified in the absence of the Cultural Heritage Monitors, the Environmental Superintendent will notify the Manager of the RAPs following the initiation of the procedures identified in this ACHMP.
4. In the event that any changes are proposed to the ACHMP, or modifications are proposed to approved activities that may have impacts on items of cultural heritage significance, the Environmental Superintendent will notify the RAPs for consideration and comment.
5. NCOPL will facilitate biannual consultation meetings with representatives of the RAPs.
6. NCOPL will ensure that RAPs are involved in biodiversity management and rehabilitation activities.

In the event there is an agreement that the approach to consultation needs to change, the changed procedures will be documented, and a copy forwarded to the Planning Secretary as a revised version of this ACHMP for review and approval.