

The Federation Project

Aboriginal Cultural Heritage Assessment and Archaeological Survey Report

Cobar LGA NSW

Report to Hera Resources Pty Limited

November 2021



ABN:29 616 529 867

Advanced Regional Environmental Assessments (AREA)

- Environmental impact assessment, auditing, and approvals
- High level preliminary environmental assessment (PEA)
- Review of environmental factors (REF)
- Peer review
- Community engagement
- Biobanking and biodiversity offsetting assessments
- Aboriginal heritage assessments and community walkovers
- Landscape design

AREA Environmental & Heritage Consultants acknowledge Traditional Owners of the country on which we work.

Document Controls

Client	Hera Resources Pty Limited		
Project No / Purchase Order No	PO10011382		
Document Description	Federation Project ASR and ACHAR		
Clients Representative Managing this Document	Renae Gifford		
AREA Person(s) Managing this Document	Nick Harrop (NH) Heritage Manager		
Cover image	View from the ridgeline across the Project		
Document Status	Version	Date	Action
DRAFT (Internal document)	V1.0	27/09/2021	AD to NH
	V1.1	28/09/2021	AREA internal edit
DRAFT (AREA / Client)	V2.1	29/09/2021	AREA to Client
	V2.2	13/10/2021	Client to AREA
	V3.0	15/10/2021	AREA to RAPs for 28 day review period
FINAL	V4.0	10/11/2021	AREA Internal Edit
	V4.1	10/11/2021	Final Draft to Client
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Executive Summary

Hera Resources Pty Limited (Hera Resources) is evaluating the development of the Federation Project (the Project), a proposed underground metalliferous mine development. The Project comprises underground mining activities and surface infrastructure at the Federation Site, amendments at Hera Mine to facilitate processing of ore from the Federation Site, and a Services Corridor connecting the Federation Site with Hera Mine. The Federation Site is located approximately 15km south of the Nymagee township and 10km south of the Hera Mine near Cobar NSW. The Project is a State Significant Development (SSD; application number SSD-24319456) as defined by the State Environmental Planning Policy (State and Regional Development) 2011 (the SRD SEPP).

AREA Environmental & Heritage Consultants (AREA) has been engaged by Aurelia to complete an Aboriginal cultural heritage report for the proposed Project. The Project has been divided, for the purpose of surveys, into the following sections, covering the full extent of disturbance proposed for the Federation Project and assessed:

- Federation Exploration Decline Program (exploration decline, associated surface infrastructure area and water transfer pipeline previously assessed AREA, 2021), which includes parts of the Federation Site and the Services Corridor
- Solar farm and powerline easement
- Production bores and associated pipeline network
- Federation Project southern access road and second magazine location areas
- Communications tower
- Proposed quarry location

Previous surveys

A series of archaeological surveys have been undertaken across the Federation Site, Hera Mine and the Services Corridor connecting the two. AREA's 2021 report *Federation Exploration Decline Aboriginal Heritage Due Diligence Assessment* outlines the proposed works for the exploration decline and water transfer pipeline route (referred to as the Exploration Decline Program).

The primary archaeological survey was conducted on Saturday 13 to Monday 15 June 2020 and focused on the Exploration Decline Program's surface infrastructure area and decline location, which includes parts of the Federation Site. It was attended by three representatives of the Aboriginal community and two staff members from AREA. The Aboriginal representatives were Peter Harris, Hillary Williams, and Barry Williams of the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants. The two representative AREA staff were Phillip Cameron (Principal Consultant) and Addy Watson (Principal Environment and Community Consultant).

A secondary site inspection was undertaken on Friday 23 to Saturday 24 October and Tuesday 27 October 2020. The purpose of this site inspection was to inspect the water pipeline route between Hera Mine and the surface infrastructure area (referred to as the 'REF Pipeline Route' for the Exploration Decline Program), expanded to include an area that encompasses the proposed Services Corridor route for the Project. The survey was assessed in conjunction with the two members of the Aboriginal Community Miss Shantelle Ohlsen (Cobar LALC) and Joshua Clarke (Ngiyampaa traditional owner on behalf of the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants). The alignment of the REF Pipeline Route was altered within the Hera Mine portion and was moved to the east. The new eastern alignment was assessed on Tuesday 27 October 2020 with Miss

Shantelle Ohlsen. Phil Cameron undertook a supplementary survey for the water pipeline on 27 January 2021.

Twelve Aboriginal sites were recorded during the surveys and will not be impacted by the proposed Project works.

Surveys outlined in this report

This report outlines the archaeological surveys conducted to provide coverage of any proposed disturbance areas for the Project not previously surveyed. This encompasses the proposed solar farm and powerline easement, production bores and associated pipeline network, Project southern access road and second magazine location areas, communications tower, and proposed quarry location.

An archaeological survey was undertaken across three days from Tuesday 13 July to Thursday 15 July 2021 covering the proposed solar farm and powerline easement, production bores and associated pipeline network, the Project southern access road and second magazine location areas, and proposed quarry. The archaeological survey was conducted by Anna Darby from AREA, Braydn Davis from Condobolin LALC, and Peter Harris and Barry Williams from Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants.

A secondary survey requested by the RAPs during the AFGM of the communications tower was conducted on 20 September 2021. This survey was conducted by Anna Darby from AREA, and Peter Harris from Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants.

Recommendations

A total of 28 Aboriginal sites have been recorded during the archaeological surveys. One (The Peak CMT 6) within the Project footprint (which can be avoided), 19 Aboriginal sites are within 100 metres of the Project, and the remaining eight are further than 100 metres from the Project and will not be impacted by the proposed works.

Recommendations are based with consideration of:

- the requirements of the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW 2010)
- the results of the background research and fieldwork
- the likely impacts of the proposed Project.

This report amalgamates the findings from all surveys conducted by AREA within and surrounding the Project area to assess potential impacts and described management measures.

Based on the assessment, the following recommendations are made:

- In order to avoid inadvertent impact to Aboriginal sites, the following measures are recommended:
 - The locations of the cultural heritage sites should be provided to the relevant supervisors responsible for the construction and operation of the Project (see Section 1.3 for site details). They should be informed that cultural heritage sites are protected under the *National Parks and Wildlife Act 1974* and no harm is to come to them. The presence of the cultural heritage sites should be made clear to the workforce as part of an induction

- Re-identify with the assistance of a qualified archaeologist and the Aboriginal community any Aboriginal sites within 100 metres of proposed impacts and standard farm fencing around each with a buffer of ten metres from the trunk of the culturally modified trees and five metres from the boundaries of the open sites.
- If changes are made to the proposed works which could impact locations outside of the proposed Project disturbance area, further archaeological investigation will required.
- If any objects of suspected Aboriginal heritage origin are encountered during the proposed works, work in the area of the find should cease and the unexpected finds protocols (Appendix C) should be implemented.
- If suspected human remains are located during any stage of the proposed works, work must stop immediately, and the NSW police must be notified.

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Terms and acronyms used in this document

Acronym	Definition
BOM	Bureau of Meteorology
DECCW	The former Department of Environment, Climate Change and Water
DPIE	Department of Planning, Industry, and the Environment
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
GPS	Global positioning system
GSV	Ground Surface Visibility
LALC	Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	Local Government Area
NP&W Act	<i>National Parks and Wildlife Act 1974</i>
NPWS	National Parks and Wildlife Services
NSW	New South Wales
NSW Heritage, DPC	NSW Heritage, Department of Premier and Cabinet
OEH	The former Office of Environment and Heritage
RAP	Registered Aboriginal Party

1 Introduction

1.1 Background

Hera Resources Pty Limited (Hera Resources) is evaluating the development of the Federation Project (the Project), a proposed underground metalliferous mine development. The Project comprises underground mining activities and surface infrastructure at the Federation Site, amendments at Hera Mine to facilitate processing of ore from the Federation Site, and a Services Corridor connecting the Federation Site with Hera Mine. The Federation Site is located approximately 15km south of the Nymagee township and 10km south of the Hera Mine near Cobar NSW (Figure 1.1).

AREA Environmental & Heritage Consultants (AREA) has been engaged by Hera Resources to complete an Aboriginal cultural heritage report for the proposed Project.

The Project is a State Significant Development (SSD; application number SSD-24319456) as defined by the State Environmental Planning Policy (State and Regional Development) 2011 (the SRD SEPP). The Planning Secretary's Environmental Assessment Requirements (SEARS) for the Project in relation to heritage are as follows:

- an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including adequate consultation with Aboriginal stakeholders having regard to the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (Section 3; DECCW, 2010), and documented in an Aboriginal Cultural Heritage Assessment Report (ACHAR) including the significance of cultural heritage values for Aboriginal people who have a cultural association with the land.
- include results of a surface survey (and test excavations, if required) undertaken by a qualified archaeologist to inform the need for targeted test excavation to better assess the integrity, extent, distribution, nature and overall significance of the archaeological record (Section 5 and 6).
- demonstrate attempts to avoid impact upon cultural heritage values and identify any conservation outcomes, including mitigation measures and procedures for accidental finds at any stage of the project (Section 7).
- .

1.2 Locality

The Project is within the Nymagee subregion of the Cobar Peneplain bioregion which includes low hills and ridges with steep slopes. Sandplains from adjacent bioregions lap onto lower slopes (OEH 2013). The Project is also within the Murray-Darling Basin. Yanda Creek, a major stream that discharges directly into the Darling River is located approximately 40 kilometres to the north of the Project. The regional geographical context of the Project is provided in Table 1-1.

Table 1-1: Regional geographical context of the Project

Criteria	The Project
Central coordinates (GDA94 z55)	E434078, N6437013
Interim Biogeographic Regionalisation for Australia (IBRA Region)	Cobar Peneplain Bioregion - Nymagee subregion
State	New South Wales
Topographical map sheet	Nymagee 8133
Local Government Area	Cobar LGA
Local Aboriginal Land Council area (LALC)	Condobolin LALC
Parish	Hathaway
County	Mouramba
Schedule of Native Title Determination Applications (Claims, ILUA Future Acts etc.)	Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Determination application
Nearest town / locality	Nymagee NSW
Accessed from nearest town by	Burthong Road
Land use / disturbance	Woodland; mining
Nearest waterway (Name, Strahler Order)	The Project is approximately 3 km south of Box Creek (2 nd Strahler Order) and 550 m east of an unnamed, ephemeral waterway (1 st Strahler Order).
Spot point Australian Height Datum (AHD) within the Project	310 m to 360 m AHD
Surrounding land use	Woodland; mining; no specific use
Expected land use	Mining, exploration, stockpiling and associated infrastructure

1.3 Project description

The Project comprises underground mining activities and surface infrastructure at the Federation Site, amendments at Hera Mine to facilitate processing of ore from the Project, and comprises:

- The establishment and operation of underground gold and metalliferous mining activities, with supporting surface infrastructure, mining approximately 6.95 million tonnes (Mt) of ore over a period of 12 to 14 years, referred to as the Federation Site;
- Amendments at the Hera Mine to facilitate mining and processing of Federation ore, including new process plant and disposal of tailings in the Hera Mine tailings storage facility (TSF); and
- Services Corridor between the Federation Site and Hera Mine, including powerline, water pipeline, access track and potential tailings pipeline.

The majority of ore produced will be sent to Hera Mine for processing. However up to 200 ktpa will be transported to PGM during the initial 4 years of processing (total of 750 kt over this period), whilst the new processing plant at Hera Mine is being commissioned and ramped up.

Access to the underground mine will be via a portal developed through the base of a box cut. The main decline will be developed to gain access to all production levels, where stopes will be excavated. The loosened ore from the stopes will be brought to the surface via underground truck and placed on the Federation Site run of mine (ROM) ore stockpile near the boxcut. Ore will then be transported by surface trucks via Burthong Road to the Hera Mine ROM stockpile at the Hera Mine process plant.

Hera Mine infrastructure is proposed to be modified to facilitate the Project including a new 750 ktpa processing plant and solar farm. The existing processing plant will continue to operate at Hera Mine until the commissioning of the new plant. The new plant will be within

the existing approved footprint of Hera Mine. The new processing plant will produce silver and gold doré and separate lead, zinc and copper concentrates.

A total of 5.8 Mt of tailings will be generated from the processing of the ore from the Federation deposit. Of this approximately 5.2 Mt will be produced at Hera Mine, with the remaining 0.6 Mt at PGM. Approximately 60% of total tailings produced will be returned to Federation Site to backfill underground stopes.

Hera Mine and Federation Site will be connected by a Services Corridor. The nominated width of the corridor is 23m with an approximate length of 14.3km. Clearing of existing vegetation will be required to install the proposed services infrastructure, including a power transmission line, water pipeline, access track and potentially a tailings slurry pipeline. The access track will be used for maintenance and inspection requirements and will not be used for haulage or ore.

Concentrate from Hera Mine will be trucked to the Hermidale rail siding for transport, as per the current concentrate transport methods and truck sizing. Concentrate from PGM will be transported to Hermidale or Dubbo rail sidings, as per the current concentrate transport methods and truck sizing.

Figure 1-1: Locality of the Project (Source: SLR)

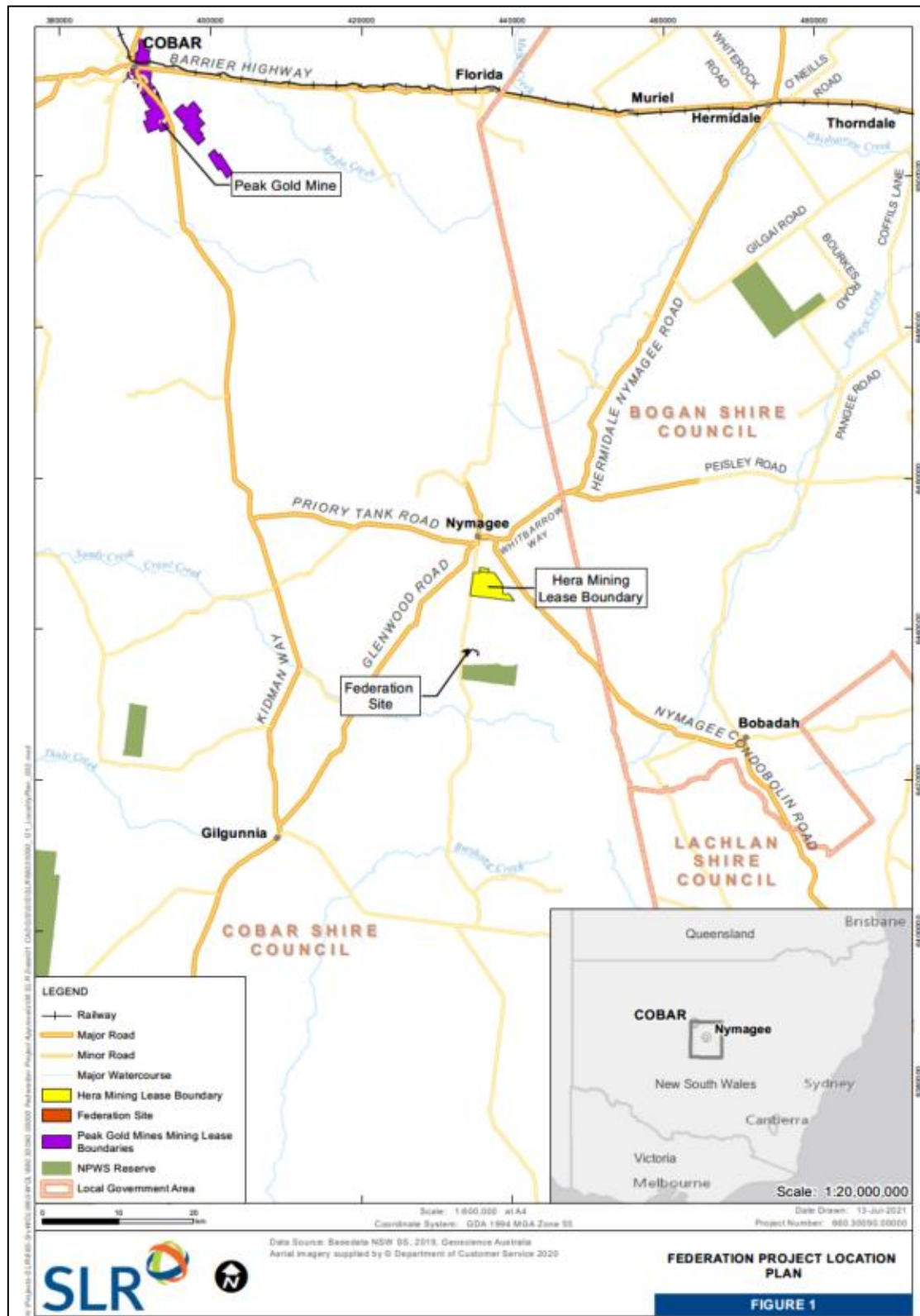
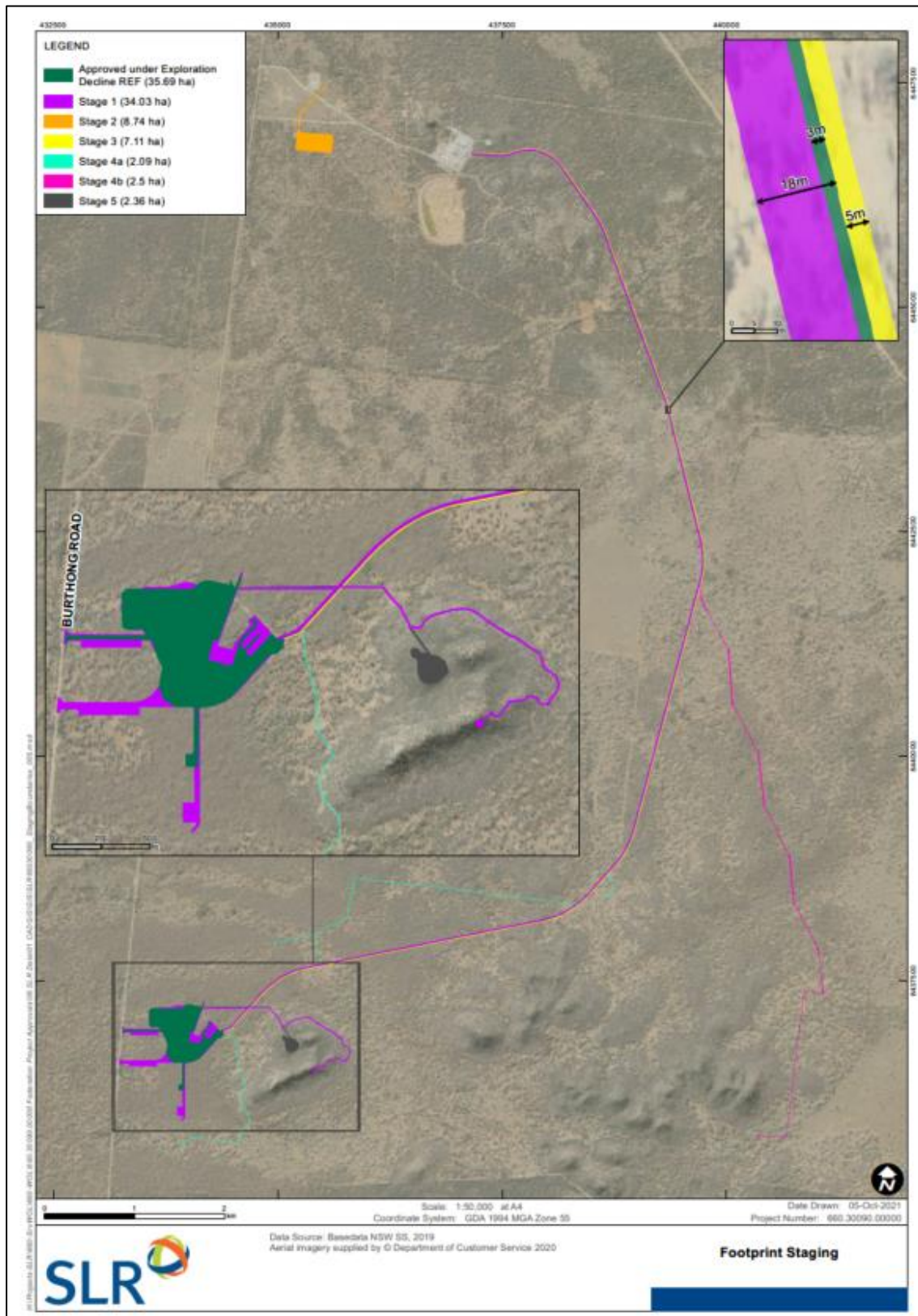


Figure 1-2: Location of the proposed Project (Source: SLR)



1.4 Project personnel

This assessment was carried out by appropriately experienced or qualified staff (Table 1-2). Anna Darby from AREA conducted the archaeological survey. Nick Harrop and Phillip Cameron provided project management and reviewed this report.

Table 1-2: Summary the project team's qualifications

Name	Position	CV Details	Suitability for the task
Phillip Cameron	Principal consultant.	- BSc. Macquarie University - Ass Dip App Sci. University of Queensland - Certified Environmental Practitioner (EIANZ) - Practicing member of the Environment Institute of Australia and New Zealand (EIANZ)	Phillip Cameron is an appropriately skilled and experienced person (degree or relevant experience) in the field of Aboriginal cultural heritage management. He has the equivalent of two years full-time experience in Aboriginal archaeological investigation, including involvement in a project of similar scope, a demonstrated ability to conduct a project of the scope required through inclusion as an attributed author on a report of similar scope under the <i>Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010)</i>. Phillip has been undertaking heritage assessments as an environmental consultant since 2004.
Nick Harrop	Project Manager; edited reports	- Bachelor of Arts (Hons) in Prehistoric and Historic Archaeology. University of Sydney - Master of Teaching. University of New England - WHS White Card - Cert 4 in 4WD training (Nationally recognised training)	Nick has worked in Australian archaeology since 2002. He has been involved in all levels of assessment in historical and Aboriginal archaeology. Nick has worked in a senior consultant position since 2011.
Anna Darby	Archaeologist. Authored the report. Undertook site recording and assisted with the survey.	- Bachelor of Arts and Bachelor of Science (Archaeology, Paleoanthropology and Forensic Science). University of New England - Bachelor of Science (Honours). University of New England	Anna has worked in Australian archaeology since 2015. She has been involved in all levels of assessment in Aboriginal archaeology, including survey and excavation. She has also worked to varying degrees in historical archaeology.

2 Legislative Context

2.1 National Parks and Wildlife Act 1974 (NPW Act)

Under the *National Parks and Wildlife Act 1974* (NSW) (NPW Act), the Director-General of the NPW is responsible for the care and protection of Aboriginal objects and places in NSW. An *Aboriginal object* means any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction and includes Aboriginal remains. An *Aboriginal place* is defined any place of special significance with respect to Aboriginal culture as declared by the Minister.

Under Section 86 of the Act, a person must not harm an Aboriginal object or place. Penalties are in place for anyone who breaches these conditions or knowingly defaces or destroys and Aboriginal object or place without a permit.

2.2 Native Title Act 1994

The *Native Title Act 1994* (NSW) was introduced to work in conjunction with the Commonwealth *Native Title Act 1993*. Native title claims, registers and Indigenous Land Use Agreements are administered under the Act.

The Project area is within the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan native title registered claim NC2012/001. The claim was entered on the Register of Native Title Claims on 12/04/2012.

2.3 Environmental Planning and Assessment Act 1979

The *Environmental Planning and Assessment Act 1979* (NSW) (EP&A Act) establishes the framework for cultural heritage values to be formally assessed in the land use planning and development consent process. The EP&A Act consists of three main parts of direct relevance to Aboriginal cultural heritage; Part 3 which governs the preparation of planning instruments and Part 4 also includes the assessment requirements for each type of consents issued including State Significant Development (SSD) as detail in Division 4.7. Part 5 relates to activity approvals by governing (determining) authorities and the duty to consider the environmental impact.

The Project is a State Significant Development (SSD), application number SSD-24319456, under Section 4.12(8) of the *Environmental Planning and Assessment Act 1979* and Schedule 2 of the *Environmental Planning and Assessment Regulation 2000*. The Minister for Planning and Public Spaces will be the consent authority for the Project in accordance with Section 4.5 of the EP&A Act.

3 Aboriginal Community Consultation

3.1 Overview

The SEARs for the Project require consultation with the Aboriginal community to be undertaken in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010). For details of the consultation process, see Appendix A.

3.2 Stage 1 of Consultation

AREA contacted a range of organisations on 22 May 2020 to request potential Registered Aboriginal Parties (RAPs) for consultation regarding the Project. The following organisations were contacted:

- Native Title Services Corporation Limited (NTS Corp)
- NSW Department of Planning, Industry and Environment (DPIE)
- Cobar Local Aboriginal Land Council (Cobar LALC)
- Cobar Regional Council
- Aboriginal Land Rights Act 1983 (ALRA)
- Local Land Services – Cobar (LLS)
- National Native Title Tribunal (NNTT)

This process resulted in 13 potential RAPs for the Project. These potential RAPs were contacted with an invitation to consult regarding the Project. In addition, an advertisement was placed in the *Cobar Weekly* on 27 May 2020 requesting expressions of interest for consultation regarding the Project.

After Stage 1 of consultation seven individuals registered their interest, one name has been withheld at the request of the individual. At various stages between mid / late 2020 and mid 2021, Joshua Clarke, Shantelle Ohlsen, and Bradyn Davis registered to become RAPs (Table 3-1).

In November 2020 AREA were notified that Condobolin LALC were active once again and requested to be included in the consultation process. Condobolin LALC have been involved in the consultation process since this time.

Table 3-1: Registered Aboriginal parties

Contact	Organisation
Rena Clements	Cobar LALC
Elaine Olsen	Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants
Hilary Williams	Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants
Barry Williams	Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants
Peter Harris	Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants
Mark Saddler	Bundy Cultural Tours

Contact	Organisation
Joshua Clarke	Ngiyampaa traditional owner
Shantelle Ohlsen	Cobar LALC
Braydn Davis	Condobolin LALC
Louise Davis	Condobolin LALC
Isabel Goolagong	Condobolin LALC
Tim Gumbleton	RSM Australia Pty Ltd ¹

3.3 Review of the assessment methodology

The RAPs were sent a request for cultural knowledge and were supplied more detailed information on 11 June 2020. No specific comments were received.

In September 2020 ‘the project’ for the purpose of consultation with RAPs, was amended to the ‘Aurelia Metals Projects’ as the scope of the proposal was altered. The name change reflected that there were additional smaller projects (related to Hera Mine) being managed under the one consultation process, not just limited to the Federation Project. The updated methodology was sent to all RAPs on 24 September 2020 asking for comments. No comments were received.

3.4 Fieldwork

Fieldwork for the Project has been undertaken in several stages. The following is a summary of the involvement of RAPs in fieldwork. There are more details of the fieldwork in Sections 5 and 6.

3.4.1 Exploration Decline Program Cultural Heritage Survey

The Exploration Decline Program’s surface infrastructure area and decline location includes parts of the Federation Site. Fieldwork positions were offered to the Cobar LALC and the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants. Cobar LALC was unable to provide site representatives. Hillary Williams, Barry Williams, and Peter Harris attended the survey on behalf of the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants. The entire Federation Site was surveyed over two days from Saturday 13 to Monday 15 June 2020.

Two culturally modified scar trees, an isolated stone artefact, and a hearth were recorded during the survey. The attendees requested that the opportunity be offered for resource gathering for Mallee to construct didgeridoos and the gather Quandong fruit (see Section 3.4.4).

3.4.2 Mod 6 Surface Extraction Area and Relocated Magazine Cultural Heritage Survey

The most recent modification to Hera Mine’s planning consent (Mod 6) was approved in June 2021. Mod 6 included a surface extraction area and relocated magazine, and is unrelated to the Project activities. However, it is described as it includes areas within or near

¹ Administrator appointed for Condobolin LALC

the Project disturbance areas and is included in this consultation process. On the 22 October 2020 the proposed location, at Hera Mine, of a surface extraction area and magazine were assessed with the two members of the Aboriginal Community, Shantelle Ohlsen (Cobar LALC) and Joshua Clarke (Ngiyampaa traditional owner on behalf of the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants). Anna Darby and Phillip Cameron from AREA were also in attendance. Both locations were walked in transects.

No Aboriginal objects or areas of potential archaeological deposits were identified during the archaeological survey.

3.4.3 Services Corridor

The Project's Services Corridor includes a water pipeline route between Hera Mine and the surface infrastructure area (referred to as the 'REF Pipeline Route' for the Exploration Decline Program). For the purposes of surveying, the REF Pipeline Route was expanded to include an area that encompasses the proposed Services Corridor route for the Project.

The proposed locations of the Services Corridor were assessed on Friday 23 to Saturday 24 October and Tuesday 27 October 2020, in conjunction with the two members of the Aboriginal Community, Shantelle Ohlsen (Cobar LALC) and Joshua Clarke (Ngiyampaa traditional owner on behalf of the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants). The alignment of the Services Corridor was altered within the Hera Mine portion and was moved to the east. The new eastern alignment was assessed on Tuesday 27 October with Shantelle Ohlsen. Anna Darby and Phillip Cameron from AREA were also in attendance.

Six Aboriginal sites were recorded during the survey of the proposed Federation Services Route (one quarry, two open sites, and three culturally modified scar trees) and have been recorded on the AHIMS database.

After the survey Shantelle Ohlsen and Joshua Clarke registered to become RAPs.

3.4.4 Federation Project cultural heritage survey

The archaeological survey of any previously unsurveyed sections of the proposed disturbance areas for the Project was conducted by Anna Darby from AREA, Braydn Davis from Condobolin LALC, and Peter Harris and Barry Williams from Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants over three days from 13 July to 15 July 2021.

13 Aboriginal sites were recorded during the survey including seven culturally modified scar trees, five hearths and one rock water hole.

The attending site officers were given the opportunity to harvest Mallee trunks for the construction of didgeridoos. The position of Quandong trees were marked with a GPS for future resource gathering.

After the survey Braydn Davis registered to become a RAP.

A secondary survey of the communications tower area was requested by the RAPs during the Aboriginal Focus Group Meeting (AFGM) and was conducted on 20 September 2021. This survey was conducted by Anna Darby from AREA, and Peter Harris from Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants. Condobolin LALC were unable to attend the survey.

3.5 Aboriginal Focus Group Meeting

All RAPs were invited to attend an AFGM, held online on 2 September 2021. The aims of the AFGM were to present a summary of the Project and the archaeological assessments, gain an understanding of the cultural values of the Project, come to an agreement on the management and mitigation measures, and identify the next steps and timeframes. The attendees for the meeting are outlined in Table 3-2 and the meeting minutes are provided in Appendix A.

Table 3-2: AFGM attendees

Contact	Organisation
Amy Pagett	Acting CEO, Cobar LALC
Mark Saddler	Bundy Cultural Tours
Joshua Clarke	Ngiyampaa traditional owner
Braydn Davis	Condobolin LALC
Louise Davis	CEO, Condobolin LALC
Isabel Goolagong	Board Member, Condobolin LALC
Tim Gumbleton	RSM Australia Pty Ltd ²

3.5.1 Primary Outcomes of the AFGM

The following recommendations were agreed upon during the AFGM:

- The communications tower area was originally surveyed without representation from the RAPs (it was previously under different approvals) and would be re-surveyed by AREA and RAPs (re-survey completed 20 September 2021).
- The Cultural Heritage section of the Hera online induction be reviewed by the RAPs.
- The ongoing maintenance and management of the Aboriginal sites be conducted by a member of the Condobolin LALC on a casual basis, for the lifetime of the mine.
- The continuation of onsite cultural heritage inductions conducted by the archaeologists and the RAPs.
- RAPs were pleased to hear that if there was potential for Aboriginal sites were recorded to be impacted by the proposed works, designs and locations were amended to avoid impacting sites.

3.6 Results from RAP review of the ACAHR

A draft copy of the ACHAR was sent to the RAPs on the 15 October 2021 for a 28-day review period, with a reminder sent to all RAPs on the 3 November 2021. Mark Saddler requested copies of the Aboriginal site cards, the 13 Aboriginal site cards registered with AHIMS at the time of this report were forwarded to him.

² Administrator appointed for Condobolin LALC

4 Archaeological Context

4.1 Aboriginal Cultural Heritage

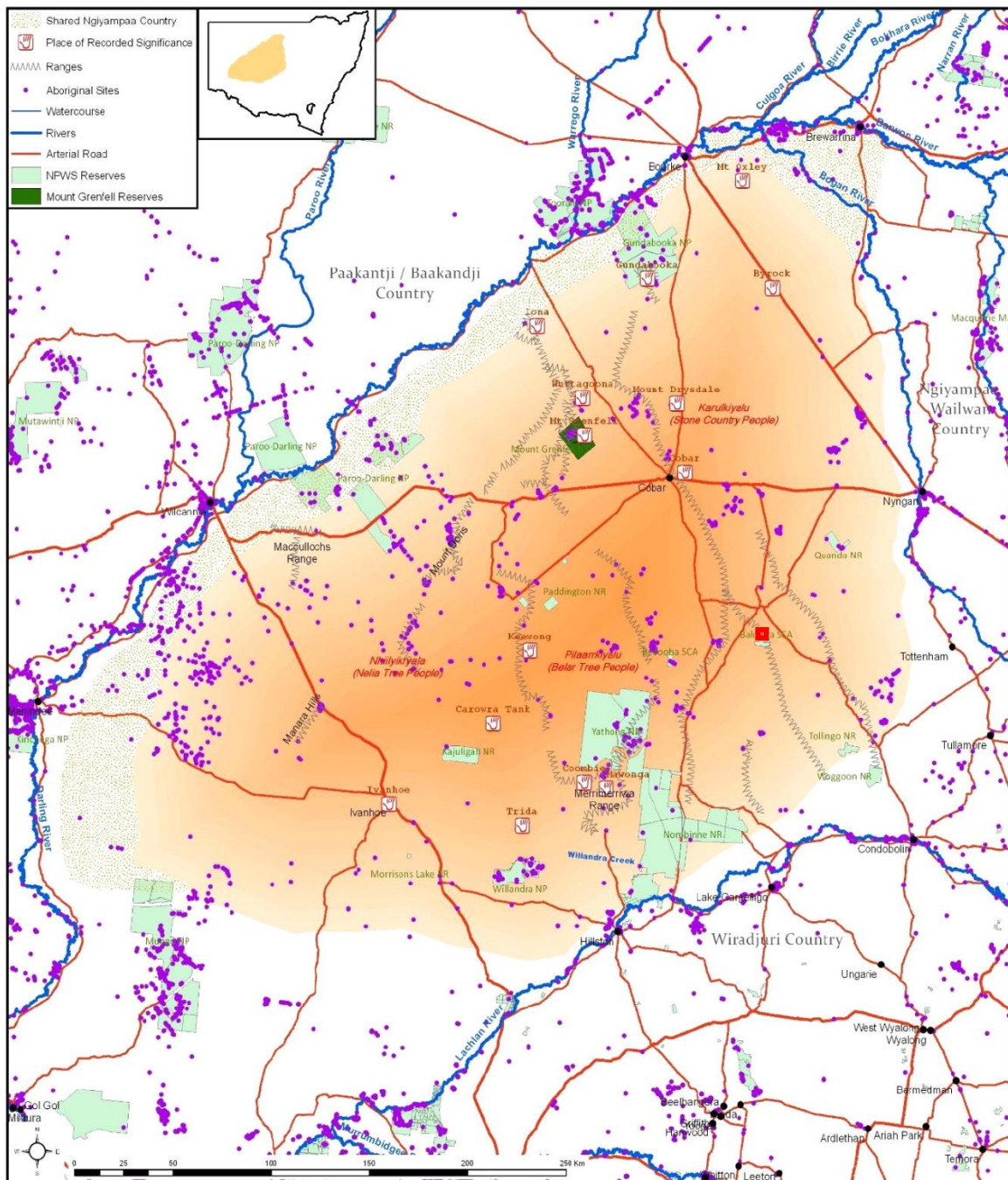
The archaeological record can provide evidence Aboriginal people have been present in Australia for approximately 60,000 years and provides evidence of a dynamic culture coupled with a long occupation of the land. The Project is within the traditional lands of the Ngiyampaa Wangaaypuwan people who lived in the dry region between the three rivers: the Darling-Barwon to the north, the Bogan River to the east, and the Lachlan River to the south (Beckett 1959; Beckett et al. 2003). They are often associated with the dry backcountry and only visited the Darling-Barwon and Bogan rivers in times of extreme drought (Beckett et al. 2003).

The Ngiyampaa Wangaaypuwan are the people who speak the Ngiyampaa language the Wangaaypuwan way. According to Smart et al (2000) they are the people who use the word *wangaay* for 'no' and *puwan* means 'having' or 'with'. This language can be more fully referred to as Ngiyampaa–Ngemba Wangaaypuwan which reflects the 'heavy tongue' spoken in the north and 'light tongue' spoken in the south. The Wailwan people to the east also use Ngiyampaa as the name of their language (NPWS. 2015). Within the Ngiyampaa Wangaaypuwan people there were local groupings recognised and named geographically according to the type of Country they occupied. The people who camped in the north around Mount Grenfell are *Karulkiyalu* or 'Stone Country' People. Other language groups are the *Pilaarrkiyalu* or 'Belah Tree' People in the south and the *Nhiilyikiyalu* or 'Nelia Tree' People to the west.

The Ngiyampaa Wangaaypuwan had cultural ties with their neighbours, along the boundaries, there is shared Country. The shared country used by other Aboriginal people in times of drought, for ceremony, for marriage or for trade. To the east is Wailwan Country, to the south Wiradjuri Country and to the north and west, Paakantji/Baakantji Country (Figure 4-1; NPWS 2015). The Project is located along the eastern edge of the of Ngiyampaa Wangaaypuwan country and neighbours the adjoining Wiradjuri country³.

³ Condobolin LALC noted in the AFGM that the Project is within Wiradjuri country. Peter Harris disagrees with this.

Figure 4-1: Map of Ngiyampaa Wangaaypuwan country, red box indicates the approximate location of the Project (Source: NPWS 2015).



4.2 Local Archaeological Context

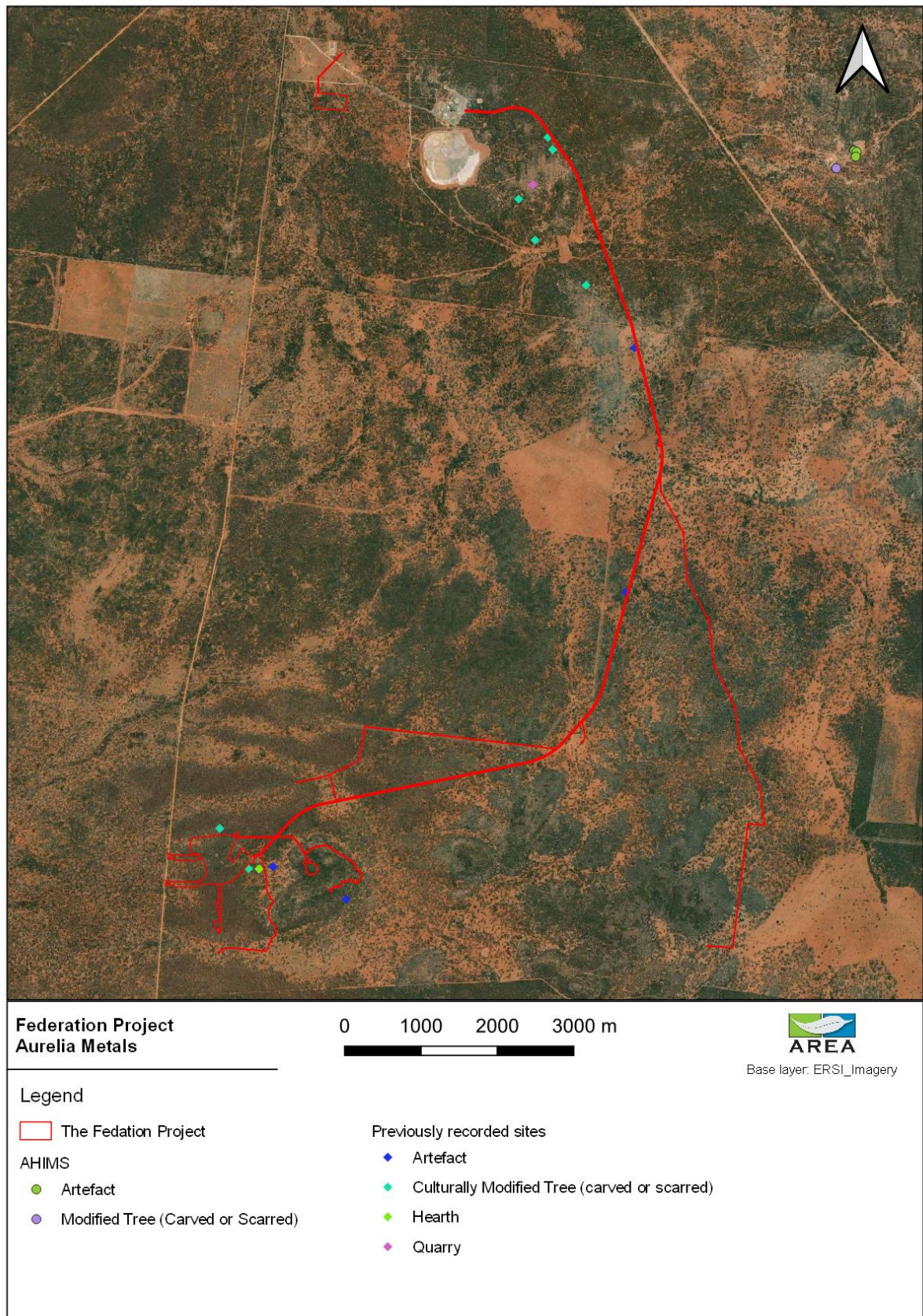
Databases were searched to locate previous archaeological studies and Aboriginal sites within 20 kilometres of the Project. The results of these searches are summarised in Table 4-1. An extensive search of the Aboriginal Heritage Information Management System (AHIMS) was conducted on 2 October 2020 (Client ID: 539539). The AHIMS search provides archaeological context for the area and identifies whether any previously recorded Aboriginal sites are located within or near the Project.

A total of four sites were recorded on the AHIMS database within the search area, 13 Aboriginal sites have been recorded as part of the *Hera Resources Exploration on the Dominion Prospect* (AREA 2018), and *Federation Exploration Decline Aboriginal Heritage Due Diligence Assessment* (AREA 2021) have been registered on the AHIMS database but have yet to be updated on the extensive search database. The distribution of the AHIMS sites and previously-recorded sites is shown in Figure 4-2. The full list of results is provided in Appendix B.

Table 4-1: Summary of database searches for Aboriginal Heritage

Database	Date of Search	Parameters	Results
Aboriginal Heritage Information Management System (AHIMS) Client ID: 539539	2/10/2020	GDA Zone 55 417320 – 457320 mE 6420727 – 6460727 mN	4 sites (3 stone artefacts, 1 culturally modified tree) were recorded with the search area and are approximately 11 km north-east of the Project.
Cobar LEP 2012	30/09/2020	Schedule 5: Environmental Heritage	No Sites of Aboriginal Heritage Are on The Database Nearby To The Project.
Native Title Vision https://nntt.maps.arcgis.com/	30/09/20	NSW	The following application covering the Project have been accepted for registration: Name: Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Tribunal No: NC2011/006 Fed Court No: NSD38/2019 Type Claimant Status: Active
State Heritage Register http://www.environment.nsw.gov.au/heritageapp/heritagesearch.aspx	30/09/20	Cobar LGA	Mt Drysdale, approximately 130 km north of the Project is recorded in this register.

Figure 4-2: Result of the extensive AHIMS search and previously recorded Aboriginal sites (AREA 2021) within 20 km of the Project



4.3 Previous archaeological studies

There is a growing body of archaeological investigations in the Nymagee area. There have been numerous compliance-based heritage assessments that have added to the archaeological record. Below is a summary of several archaeological reports conducted within the Project and surrounding area.

Archaeology in *Elura EIS* (Natural Systems Research Pty Ltd 1979)

This 1979 study was for a proposed zinc mine approximately 130 kilometres north-northwest of the Project. Fourteen sites of Aboriginal archaeological heritage were recorded. Most sites were open artefact scatters, with isolated stone artefact sites, quarries and culturally-modified (scarred) trees also present. Most artefacts were made from chert, quartz or a quartz-like material. In terms of artefact types, grinding stones and scrapers stand out as formal tool types. Sites were predominantly centred on a gilgai or depression.

The archaeological investigation for sites of Indigenous cultural significance on gold mining prospects at ‘Hera’ south of Nymagee, Overflow Project at Bobadah and “Fountain Dale” at Mineral Hill (John Appleton 2004)

In 2004 John Appleton conducted a survey in conjunction with members of the LALC of the northern sections of the Project. The survey focused on Hera and the general area on which the then drilling programme was centred. No Aboriginal objects or sites were recorded during the survey and Appleton concluded that there was little probability for there to be further sites.

Hera Project via Nymagee (OzArk EHM 2011)

In 2011 OzArk Environmental & Heritage Management Pty Ltd (OzArk EHM) conducted an Aboriginal and historic heritage assessment of the proposed impacts within the Hera Mine boundary, approximately 10 kilometres to the north of the Federation Site. No Aboriginal objects or sites were recorded during the survey.

Hera Resources Exploration on the Dominion Prospect (AREA 2018)

AREA was engaged by Hera Resources to conduct a field survey for the Dominion site (Lot 3586 DP769242), east of the Project. One archaeological site, Dominion Ground Axe 1 (AHIMS ID 34-2-0031) was recorded during the survey nearby to a drill line, at the base of the eastern side of the communications tower. The axe was made from a dark grey volcanic stone that is not found among the geology of the region, and measures 64 millimetres long, 23 millimetres wide and ground at one end. Despite its relatively small size, there was no evidence of hafting present.

Federation Surface Exploration (AREA 2020)

AREA was engaged by Hera Resources to complete an Aboriginal heritage due diligence assessment for proposed surface exploration drilling within and around the potential Federation deposit. The area assessed contained dense mallee and spinifex vegetation. No Aboriginal objects or sites were recorded during the survey.

Mod 6 Surface Extraction Area and Relocated Magazine Cultural Heritage Survey (AREA 2020)

AREA was engaged by Hera Resources to complete an Aboriginal cultural heritage assessment for the proposed surface extraction area and relocated magazine at Hera Mine that were the subject of Mod 6 to the planning consent. The area assessed for the surface

extraction area encompassed a small hill with dense juvenile Cyprus Pine trees and rocky sandstone out crops. The proposed location of the magazine was comprised of a flat landform context with Cyprus Pine trees and ironbarks. No Aboriginal objects or areas of archaeological potential were observed during the survey.

Federation Exploration Decline Aboriginal Heritage Due Diligence Assessment (AREA 2021)

AREA was engaged Hera Resources to complete an Aboriginal cultural heritage assessment for the Exploration Decline Program (including surface infrastructure area forming part of the Federation Site and REF Pipeline route within the proposed Services Corridor). Two archaeological surveys were conducted in June 2020, October 2020. Twelve Aboriginal sites were recorded and outlined in Table 4-2. The two open sites contained isolated stone artefacts and quartz outcrops that showed evidence of being mined by Aboriginal people.

Table 4-2: Aboriginal sites described in AREA 2021

AHIMS ID	Name	Site type
AHIMS ID 38-2-0191	Federation Deposit Scar Tree 1	Culturally modified tree (carved or scared)
AHIMS ID 38-2-0188	Federation Deposit Scar Tree 2	Culturally modified tree (carved or scared)
AHIMS ID 38-2-0189	Federation Deposit Isolate Find 1	Isolated stone artefact
AHIMS ID 38-2-0190	Federation Deposit H1	Hearth
AHIMS ID 34-2-0026	PIPE Aboriginal Quarry 01	Quarry/Aboriginal resource and gathering
AHIMS ID 34-2-0027	PIPE OS1	Aboriginal resource and gathering, and isolated stone artefact
AHIMS ID 34-2-0028	PIPE OS2	Aboriginal resource and gathering, and isolated stone artefact
AHIMS ID 34-2-0029	PIPE CMT1	Culturally modified tree (carved or scared)
AHIMS ID 34-2-0030	PIPE CMT2	Culturally modified tree (carved or scared)
AHIMS ID 34-2-0032	PIPE CMT3	Culturally modified tree (carved or scared)
AHIMS ID 34-2-0033	PIPE CMT4	Culturally modified tree (carved or scared)
AHIMS ID 34-2-0034	PIPE CMT5	Culturally modified tree (carved or scared)

4.4 Land use

Nymagee was established by 1879 and the Nymagee Cooper Mine was developed by 1888. As the mine had a wood-fired smelter, significant areas of timber were cleared from the surrounding country including on Hera Mine and the Federation site where historical tree removal evidence (stumps) is still evident.

As a result of widespread removal of eucalyptus trees from the region to fuel the wood-fired smelter, and heavy and continuous grazing by sheep and goats, the pre-European vegetation composition in the development site has changed. The ground stratum was effectively stripped, and White Cypress Pine dominated the landscape which significantly suppressed

biodiversity. The disturbance history in the development site includes past land-uses for mining (including timber cutting), and rural settlement associated with the former Nymagee Copper Mine.

4.5 Predictive Model

A predictive model combines the archaeological context for the Project with landscape information to propose likely site types, distributions, and intactness within the area.

Areas of archaeological potential are regarded as any sensitive landform with a reasonable level of intactness (i.e. little to no disturbance or minor ground surface disturbance only and in areas not on self-mulching soils). The definition of disturbance used here follows that of the *National Parks and Wildlife Regulation 2009* (Clause 80B, Subclause 4). Sensitive landforms follow the definitions supplied in the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW 2010):

- within 200m of waters
- located within a sand dune system
- located on a ridge top, ridge line or headland
- located within 200m below or above a cliff face
- within 20m of or in a cave, rock shelter, or a cave mouth.

Aboriginal settlement patterns in areas of low water security likely fluctuated or were cyclical, and marginal areas such as that of the Project would have been exploited for resources during periods of more secure precipitation (Smith 2013: 12). Therefore, the archaeological record of areas within the region that are removed from reliable water should reflect less intense, temporary (but repeated) occupation and resource gathering.

Four sites of Aboriginal heritage have been recorded within 20 kilometres of the Project on the AHIMS database. The 13 Aboriginal sites recorded as part of the *Hera Resources Exploration on the Dominion Prospect* (AREA 2018), and *Federation Exploration Decline Program Aboriginal Heritage Due Diligence Assessment* (AREA 2021) have been registered on the AHIMS database but have yet to be updated on the extensive search database. The broader archaeological context indicates that sites are very unlikely to occur unless there are landscape features that are at least able to hold water for short periods of time following heavy inundation.

If present, site types are most likely to be stone artefact sites based on the regional archaeological context. The geology of the Project indicates that stone for artefacts would need to be brought into the area rather than locally manufactured. However, many tools and other objects were made from wood, bone and shell which do not survive into the archaeological record as well as stone (Clarke, 2007, p.111).

Culturally modified trees can occur anywhere on old growth trees to produce suitable bark to create carrying dishes (commonly known as *coolamons*), canoes and other items. Trees may also be modified as markers or other types of communication.

Other site types may occur but within the landscape context of the Project they are not likely to exist. Hearths are reasonably common but tend to deteriorate and be destroyed more easily. Quarries are possible where raw material is available. There are no outcroppings of bedrock or caves so grinding grooves, enhanced water sinks and rock art are not possible. Ochre quarries and stone arrangements are unlikely to occur.

5 Fieldwork

5.1 Overview

A series of archaeological surveys have been undertaken across the Federation Site, Hera Mine and the Services Corridor connecting the two. AREA's 2021 report *Federation Exploration Decline Aboriginal Heritage Due Diligence Assessment* outlines the proposed works for the exploration decline water transfer pipeline route (referred to as the Exploration Decline Program) (Figure 5-1).

The primary archaeological survey was conducted on Saturday 13 to Monday 15 June 2020 and focused on the Exploration Decline Program's surface infrastructure area and decline location, which includes parts of the Federation Site. It was attended by three representatives of the Aboriginal community and two staff members from AREA. The Aboriginal representatives were Peter Harris, Hillary Williams, and Barry Williams of the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants. The two representative AREA staff were Phillip Cameron (Principal Consultant) and Addy Watson (Principal Environment and Community Consultant).

A secondary site inspection was undertaken on Friday 23 to Saturday 24 October and Tuesday 27 October 2020. The purpose of this site inspection was to inspect the water pipeline route between Hera Mine and the surface infrastructure area (referred to as the 'REF Pipeline Route' for the Exploration Decline Program), expanded to include an area that encompasses the proposed Services Corridor route for the Project. The survey was assessed in conjunction with the two members of the Aboriginal Community Shantelle Ohlsen (Cobar LALC) and Joshua Clarke (Ngiyampaa traditional owner on behalf of the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants). The alignment of the REF Pipeline Route was altered within the Hera Mine Site portion and was moved to the east. The new eastern alignment was assessed on Tuesday 27 October 2020 with Shantelle Ohlsen.

This report outlines the archaeological surveys conducted to provide coverage of any proposed disturbance areas for the Project not previously surveyed. This encompasses the proposed solar farm and powerline easement, production bores and associated pipeline network, the Project southern access road and second magazine location areas, proposed quarry location and communications tower.

An archaeological survey was undertaken across three days from Tuesday 13 July to Thursday 15 July 2021 covering the proposed solar farm and powerline easement, production bores and associated pipeline network, the Project southern access road and second magazine location areas, and proposed quarry. The archaeological survey was conducted by Anna Darby from AREA, Braydn Davis from Condobolin LALC, and Peter Harris and Barry Williams from Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants.

A secondary survey requested by the RAPs during the AFGM of the communications tower was conducted on 20 September 2021. This survey was conducted by Anna Darby from AREA, and Peter Harris from Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants.

5.2 Methodology

The purpose of the archaeological surveys was to identify any previously undetected Aboriginal sites and evaluate the possible need for further investigation (i.e. test-excavation). The field assessment team combed the Project footprint in transects with a spacing of 20

metres between personnel. The survey was intensified in areas of higher archaeological potential.

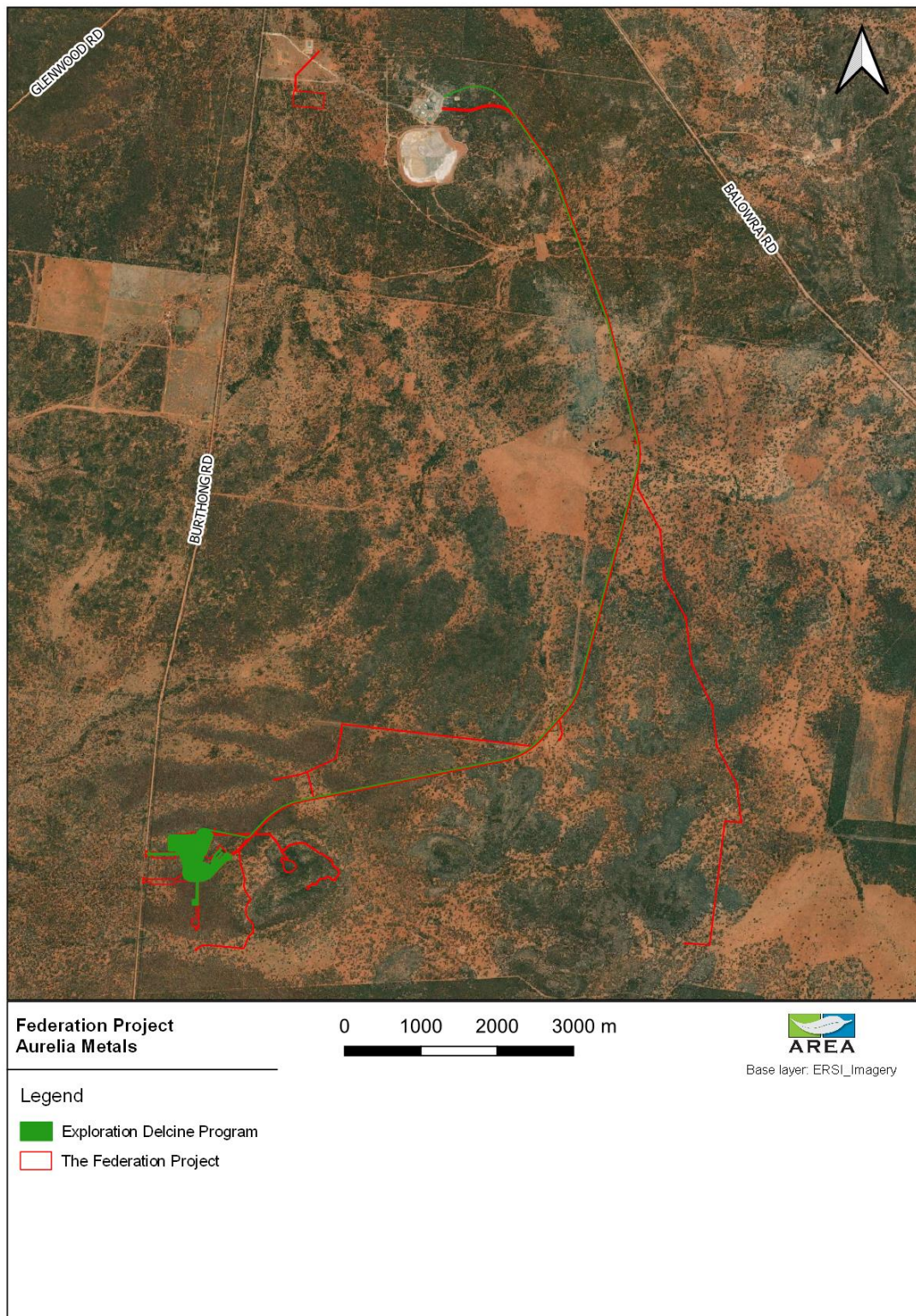
A GPS was used to ensure the survey covered the Project areas. The positions of the tracks and location of Aboriginal sites were recorded. It is important to note the tracks for the water bore pipelines represent only one person from the survey team. At times the survey team comprised, one, three or four people. As a result, survey transects were up to 60m wide.

Photographic and written records were made of the landscape features relevant to archaeological potential. These features include disturbance levels, ground surface visibility (GSV) and landforms of higher archaeological potential (see Section 5). Sites were recorded using AREA's criteria that conforms with *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2011). The Aboriginal sites were recorded continuing the nomenclature from previous assessments (e.g. AREA, 2021).

The Project was surveyed in sections defined by the proposed activity, with the survey units within the sections defined arbitrarily. The Project has been divided, for the purpose of surveys, into the following sections, covering the full extent of disturbance proposed for the Federation Project and assessed:

- Federation Exploration Decline Program (exploration decline, associated surface infrastructure area and water transfer pipeline previously assessed in AREA, 2021), which includes parts of the Federation Site and the Services Corridor (Figure 5-1;SU0)
- Solar farm and powerline easement (SU1 and SU2)
- Production bores and associated pipeline network (SU 3 to SU5)
- Federation Project southern access road and second magazine location areas (SU6 and SU7)
- Proposed quarry location (SU8)
- Communications tower (SU9)

Figure 5-1: Exploration Decline Program and the Federation Project footprints



5.3 Constraints

There were no notable constraints in completing the field survey.

Figure 5-2: Survey units (survey unit 0 = area assessed in AREA 2021)



6 Results

6.1 Overview

The following section outlines the location of the survey units and describes the results of the survey.

6.2 Exploration Decline Program

The Exploration Decline Program includes parts of the Federation Site and the Services Corridor. The areas assessed by AREA (2021) was assigned Survey unit 0 (SU0).

6.2.1 Survey Unit 0

The following has been derived from *Federation Exploration Decline Program Aboriginal Heritage Due Diligence Assessment* (AREA 2021).

The landscape within the SU0 is comprised of a flat plain with remnant mallee vegetation that has been cleared to make access tracks for the purpose of exploration drilling (Figure 6-1 and Figure 6-2).

Twelve sites, five culturally modified trees, five stone artefact sites (one with evidence of quarrying), a quarry and a hearth (fireplace), were recorded during the survey (Figure 4-2). All sites were recorded outside of the Project footprint and will not be impacted.

Figure 6-1: Example of vegetation within the SU0



Figure 6-2: example of existing disturbance within SU0



6.3 Solar Farm and powerline easement

The proposed solar farm and powerline easement are located at Hera Mine. The solar farm is proposed to be located south of the current heavy vehicle haulage road. The powerline easement connects the solar farm to the current powerline east of the mine accommodation village. The survey was divided into two survey units (SUs), the solar farm (SU1) and the powerline easement (SU2).

6.3.1 Survey unit 1

The vegetation within survey unit 1 (SU1) consists of white Cyprus pine, several Gum trees and moderate ground cover consisting of grass, saltbush and shrubs (Figure 6-3). The landform is comprised of a flat landscape with an unnamed drainage line crossing SU1 from east to west (Figure 6-5). Ground surface visibility (GSV) within the survey unit varies from

moderate to high due to the ground cover. Disturbance within SU1 is moderate with exploration drilling observed in one location, a track connecting the drilling pad to the haulage road, and topsoil stockpiles and emergency response training (ERT) area in the north of the survey unit (Figure 6-6 to Figure 6-8).

One culturally modified tree (The Peak CMT 6) was recorded during the survey (Figure 6-34) and is outlined in Section 6.8.

Figure 6-3: Example of vegetation and low GSV within SU1



Figure 6-4: Example of vegetation and high GSV within SU1



Figure 6-5: Drainage line and track within SU1



Figure 6-6: Drilling pad within SU1



Figure 6-7: ERT area within SU1



Figure 6-8: Topsoil stockpile within SU1



6.3.2 Survey unit 2

Survey unit 2 (SU2) encompasses the proposed powerline easement from the northwest corner of the solar farm to the existing powerline easement at the accommodation village (Figure 6-9). SU2 is comprised of a flat landform and crosses the two mine access roads (Figure 6-10). Vegetation within the survey unit is comprised of several Gums at the southern end and northern ends of the easement and young Cyprus pines in the middle (Figure 6-11). The survey unit has evidence of moderate to high levels of disturbance due to the two roads, the topsoil stockpiles and historic vegetation clearing (Figure 6-12).

No Aboriginal objects or areas of archaeological deposits were observed during the survey within SU2.

Figure 6-9: Current powerline easement east of the accommodation village



Figure 6-10: View north across access road towards the accommodation village



Figure 6-11: Example of vegetation within SU2



Figure 6-12: View south across SU2 showing heavy vehicle access road and topsoil stockpile



6.4 Production bores and associated pipeline network

The production bores and associated pipeline network are a series unsealed service tracks five meters wide with waterpipes connecting the bore pads. The bore pads are approximately 20 metres by 20 metres. The survey of the pipeline network and production bores was divided geographically into three survey units (Figure 5-2).

6.4.1 Survey unit 3

Survey unit 3 (SU3) encompasses the eastern most proposed pipeline network and production bores. The northern end joins with the Services Corridor and the pipeline extends for approximately 14.5 kilometres and includes 11 drill pad sites. SU3 is within a flat platform landform context and is comprised of two vegetation types: Bimble Box grassy woodland (Figure 6-13) and Mallee and Gum Coolabah woodland with spinifex ground cover (Figure 6-14). Minimal disturbance was observed due to grazing and other low impact farming activities. GSV also varied within each of the vegetation types. Areas of Bimble Box grassy woodland within the northern section of SU3 contained low GSV (20%) due to dense ground cover of grasses and broad leaf weeds. The middle and southern portions contained high GSV due to the lack of ground cover (Figure 6-15). Within the Mallee and Gum Coolabah woodland GSV also varied due to the amount of ground cover (Figure 6-16). Natural resources in the form of yams, Quandong trees, and Kurrajong trees were observed. Several small drainage lines were observed at the southern portion of the survey unit.

Three culturally modified scar trees (Federation Deposit CMT 7, Federation Deposit CMT 13, and Federation Deposit CMT 14), and four hearths (Federation Deposit H2, Federation Deposit H3, Federation Deposit H4, and Federation Deposit H5) were recorded during the survey and are outlined in Section 6.6 (Figure 6-35).

Figure 6-13: Example of vegetation and low GSV within the Bimble Box grassy woodland



Figure 6-15: Example of low GSV within SU3



Figure 6-14: Example of vegetation within the Mallee and Gum Coolabah woodland



Figure 6-16: Example of moderate GSV within the Mallee and Gum Coolabah woodland



6.4.2 Survey unit 4

Survey unit 4 (SU4) encompasses the northern segment of the proposed production bore and pipeline network (Figure 5-2). SU4 contains two production bore pads and approximately 4.5 kilometres of pipeline.

The northern section of SU4 runs along a section of fence line that has been extensively cleared and has started to revegetate (Figure 6-17). The remainder of the survey unit contains minimal disturbance. SU4 is within a flat landform with vegetation consisting of Mallee and Gum Coolabah woodland with moderate to high GSV (Figure 6-18 and Figure 6-19).

Three culturally modified scar trees (Federation Deposit CMT 10, Federation Deposit CMT 11, and Federation Deposit CMT 12), and a hearth (Federation Deposit H6) were recorded during the survey and are outlined in Section 6.6 (Figure 6-36).

Figure 6-17: Cleared vegetation along the fence line, facing east



Figure 6-18: Example of high GSV within SU4



Figure 6-19: Example of vegetation within SU4



6.4.3 Survey unit 5

Survey unit 5 (SU5) encompasses the proposed western production bore and pipeline network, it contains one bore pad and approximately 2 kilometres of pipeline. The majority of the pipeline network follows the existing access track (Figure 6-20). SU5 is mostly within a flat landform context with a small section (approximately 350 metres) on the toe slope of a hill. Vegetation within SU5 consists of Gum Coolabahs with a shrubby understory (Figure 6-21). GSV was high along the track and moderate within the proposed bore pad.

One culturally modified tree (Figure 6-36; Federation Deposit CMT 9) was recorded during the survey and is outlined in Section 6.6.

Figure 6-20: Existing track within the Federation Site



Figure 6-21: Example of vegetation within SU5



6.5 Federation Project

Several archaeological surveys of the Federation Site have been conducted (AREA 2021). The following survey results are for the additional areas for the Project not included in the Exploration Decline Program area: the southern access track (SU6), the second magazine location (SU7), and proposed quarry (SU8).

6.5.1 Survey unit 6

Survey unit 6 (SU6) encompasses the southern access road into the Federation Site and measures 415 metres long, 230 metres at its widest and is approximately 2.5 hectares in area. The existing access track borders the northern end of the survey unit (Figure 6-20). SU2 is flat with vegetation comprising of Gum Coolabah and Mallee, with small shrubs (Figure 6-23). GSV was high along the track and moderate (50%) throughout the rest of the survey unit.

One culturally modified tree (Figure 6-36; Federation Deposit CMT 8) was recorded during the survey and is outlined in Section 6.6.

Figure 6-22: Existing access track into the Federation Site



Figure 6-23: Example of Vegetation and GSV within SU6



6.5.2 Survey unit 7

Survey unit 7 (SU7) encompasses the proposed second magazine and is located north of the existing access track to the Project. SU7 is 340 metres long, and 90 metres at its widest. Vegetation is comprised of dense Mallee with the occasional Gum Coolabah and Quandong (Figure 6-24). No young Quandongs were observed, this is possibly due to the wild goat population eating the saplings. GSV was moderate (40%) with some large exposures occurring (Figure 6-25).

No Aboriginal objects or areas of archaeological deposits were observed during the survey within SU7.

Figure 6-24: Example of vegetation within SU7



Figure 6-25: Example of GSV within SU7



6.5.3 Survey unit 8

Survey Unit 8 (SU8) encompasses of the proposed quarry located on a small crest north of the communication tower and the access track connecting the quarry to the Services Corridor (Figure 5-2). The access track follows an existing mine track approximately five metres wide. SU8 is predominately on a moderate slope with vegetation consisting of juvenile Cyprus Pines and the occasional mallee. GSV was high (90%) within the existing access track and moderate (40%) across the remainder of the survey unit.

No Aboriginal objects or areas of archaeological deposits were observed during the survey within SU8.

Figure 6-26: View northwest showing existing access track



Figure 6-27: Example of slope and vegetation within SU8



6.6 Communications tower

The proposed communications tower is located on a hill southeast of the Federation Site. The proposed location of the tower is on the northern point; however the entire ridgeline was assessed (SU9).

6.6.1 Survey unit 9

Survey unit 9 (SU9) encompasses the proposed communications tower, access track and the ridge line of the crest. The access track is a moderate to steep slope, with rocky soils and outcroppings of jagged sandstone at the crest (Figure 6-28 and Figure 6-29). Vegetation within SU9 consists mostly of Black Cyprus Pine with the sporadic Native Pear and Mallee (Figure 6-30). GSV was high (80%) within the survey unit as much of the area contained heavy browsing and degraded soils due to the presence of goats (Figure 6-31). The goat activity has also powdered the A horizon by trampling.

No Aboriginal objects or areas of potential archaeological deposit were identified within the study area. However, intangible cultural heritage values were noted by Peter Harris. The southern western end of the crest provides 360° views across the landscape for a wide area (Figure 6-32 and Figure 6-33). This crest would have been utilised by the Aboriginal people as a lookout. Small scouting parties would position themselves at the crest to keep an eye out for approaching tribes, the location of natural resources such as mobs of kangaroo and Emu, and to observe weather patterns such as approaching rains (pers. Comms Peter Harris).

Figure 6-28: Moderate slope at the access track location, view northwest



Figure 6-29: Example of vegetation and sandstone outcrops



Figure 6-30: Example of vegetation and sandstone outcrops on the crest



Figure 6-31: Example of high GSV within SU9 and goat browsing



Figure 6-32: View from the crest facing south



Figure 6-33: View from the crest looking across the Federation Site



Figure 6-34: Aboriginal sites recorded near Hera Mine

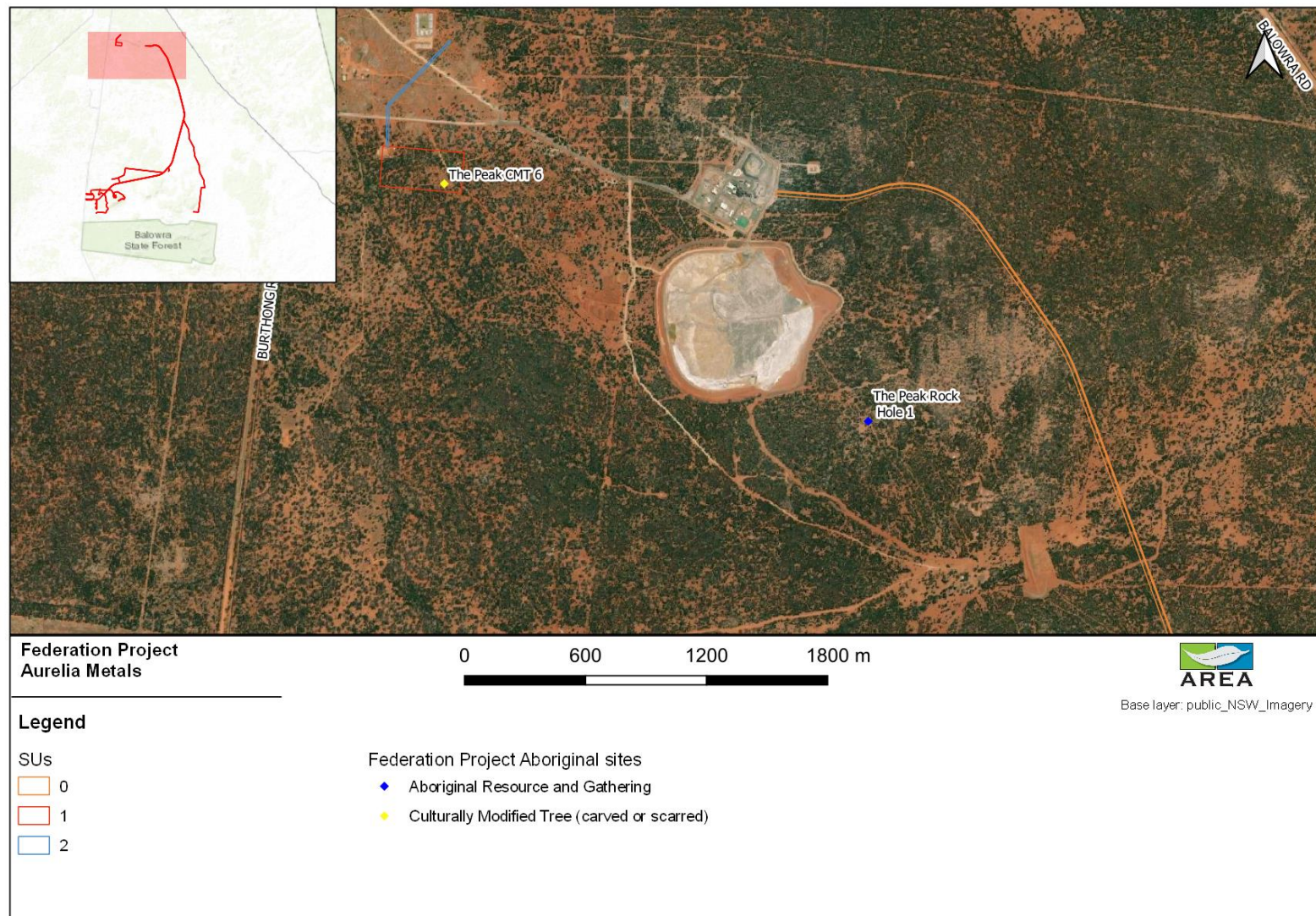


Figure 6-35: Aboriginal sites recorded within survey unit 3

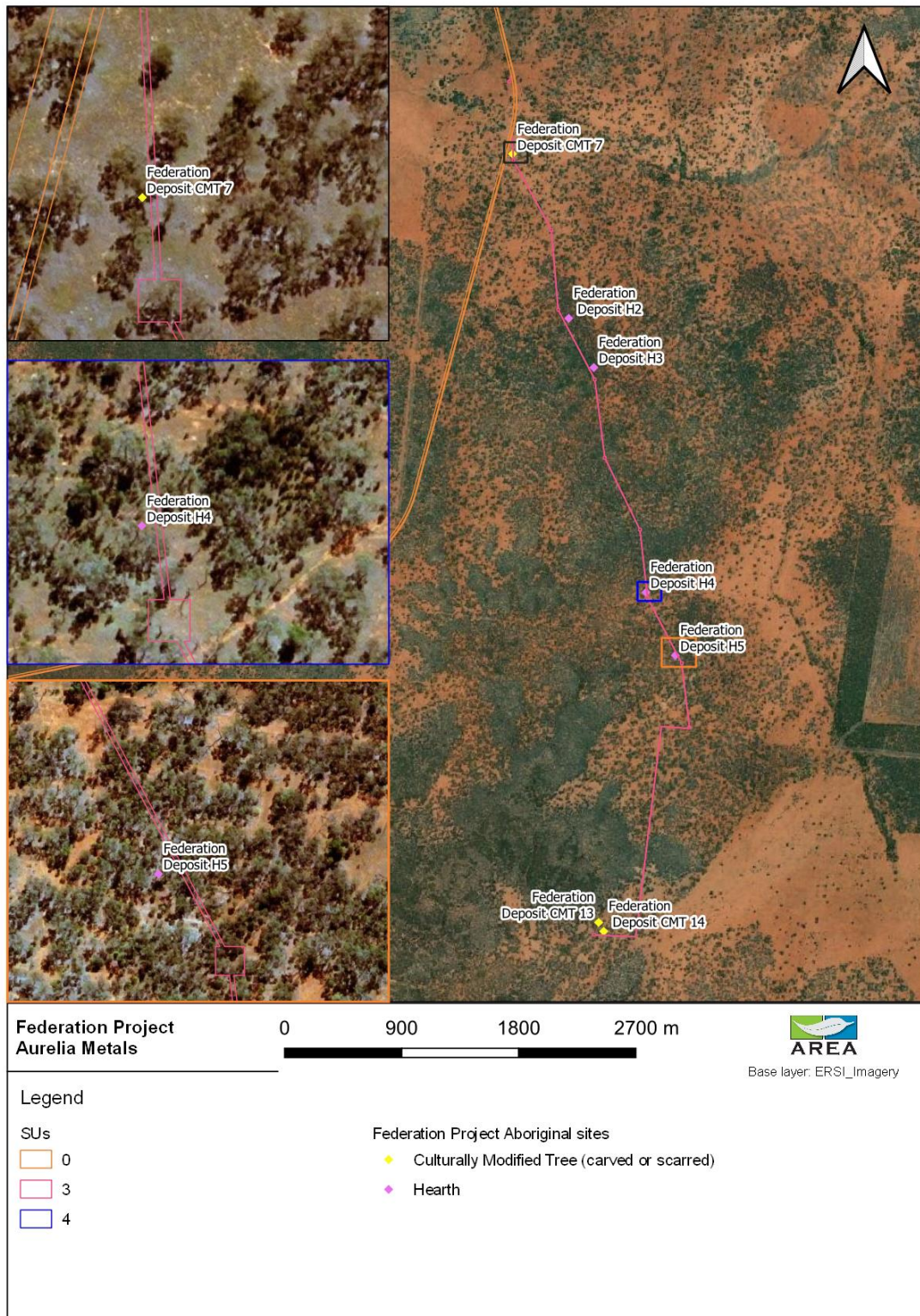
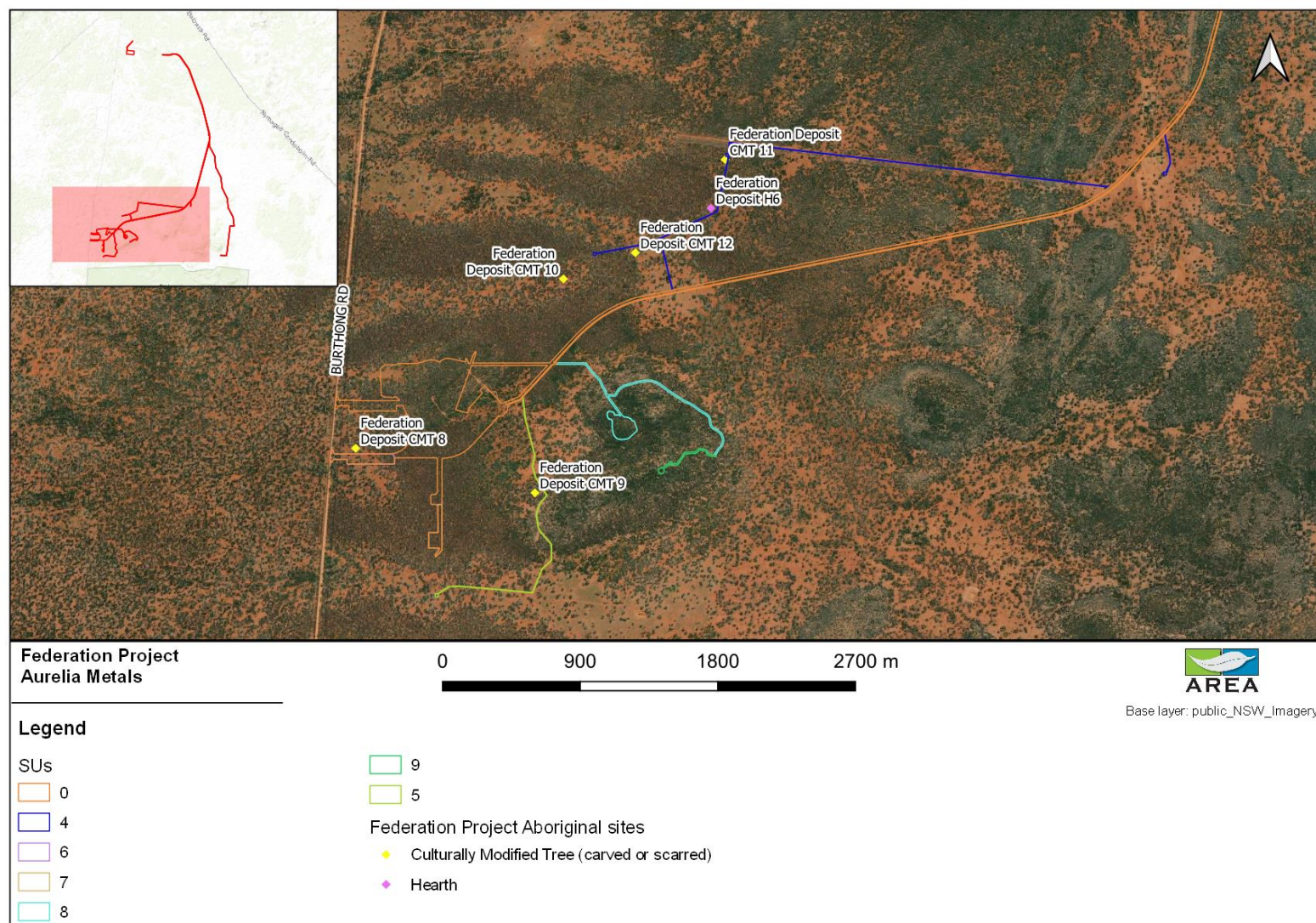


Figure 6-36: Aboriginal sites recorded near the Federation Site



6.7 Survey Coverage

A summary of survey coverage is provided in Table 6-1 and Table 6-2. Effective survey coverage was moderate.

Table 6-1: Survey coverage summary – survey units

Survey unit	Landform	Survey unit area (m ²)	Visibility %	Exposure %	Effective survey coverage (m ²)	Effective Survey Coverage (%)
0	Flat	940,912	70	40	126,180	13.29
1	Flat	80,917	60	40	19,420	24.00
2	Flat	6,447	30	10	194	3.00
3	Flat	24,960	50	50	6,172	24.70
4	Flat	14,364	60	30	2,585	17.99
5	Flat, slope	6,507	80	30	1,561	23.98
6	Flat	25,031	50	25	3129	12.50
7	Flat	14,677	40	30	1,761	12.99
8	Slope, crest	28,087	75	20	4,213	15.00

Table 6-2: Survey coverage summary – landforms

Landform	Landform area (m ²)	Area effectively surveyed (m ²)	% of landform surveyed	Number of sites
Flat	1,120,453	151,850	13.55	15
Slope	5,610	1,795	31.99	0
Crest	24,017	3,602	14.99	0

6.8 Recorded sites

6.8.1 Previously recorded sites

Table 6-3 outlines the Aboriginal sites recorded in *Federation Exploration Decline Program Aboriginal Heritage Due Diligence Assessment* (AREA 2021).

Table 6-3: Aboriginal sites recorded in *Federation Exploration Decline Program Aboriginal Heritage Due Diligence Assessment* (AREA 2021).

Site ID	GDA z55E	GDA z55N	Description	Photograph
Federation Deposit Scar Tree 1	434327	6436789	Federation Deposit ST1 is a north-facing scar on a Bimble box at the edge of a small clearing. There are no other site features nearby, so the site boundary includes the tree canopy with a 3m buffer. There is minor-moderate ground surface disturbance in the clearing to the north of the tree. The tree is approximately 25 m high. There are two scars on this tree, one is from lightning strike and the other is cultural in origin. It is easy to overlook the cultural scar due to the placement of the lightning strike scar which partially overlaps it. There is a large epicormic growth at the base of the scar which, along with significant regrowth and weathering, suggests that the scar is relatively old. The scar is 291 cm long, 45 cm wide and 15 cm deep. Regrowth is approximately 10 cm.	

Site ID	GDA z55E	GDA z55N	Description	Photograph
Federation Deposit Scar Tree 2	433950	6437317	Federation Deposit ST2 is on a c.200-year old Bimble box tree in an open woodland context. There are no other site features nearby, so the site boundary includes the tree canopy with a 3m buffer. There has been little ground surface disturbance in the vicinity of the tree. The tree is approximately 25 m high. The has been significant regrowth and the scar is nearly closed over. The scar is 96 cm long, 7 cm wide and 20 cm deep. Regrowth is approximately 20 cm.	

Site ID	GDA z55E	GDA z55N	Description	Photograph
Federation Deposit Isolate Find 1	434650	6436815	Federation Deposit IF1 is an anvil fragment made from quartzose sandstone. It was recorded among a low-density patch of trees approximately 60m east of the Development Site. The anvil has been broken but the other piece(s) were not found. It exhibits pecking where the split has occurred. GSV was very high in the location of the artefact and it is therefore very likely to be an isolated find. Therefore, the site boundary is a circle with a radius of 5m around the position of the artefact. There was no ground disturbance in the location of the artefact. The site was recorded near a (very) ephemeral drainage line.	
Federation Deposit H1	434465	6436786	Federation Deposit H1 is a probable hearth or fireplace in a small clearing among low-density woodland. It consists of an area of hardened, baked soil with a baked clayey ball nearby. The Traditional Owners had recently participated in targeted ground oven training sessions run by a renowned archaeologist at Mt Grenfell and provided guidance on its positive identification. The site is not accompanied by other artefacts. However, it is in the general vicinity of two other sites (Federation Deposit ST1 & IF1) in the southeast of the Development Site.	

Site ID	GDA z55E	GDA z55N	Description	Photograph
PIPE Aboriginal Quarry 01	438079	6445817	This site is located on the eastern to southern slope of a hill. Four outcroppings of high quality quartz were observed within a 500 m² area. A scatter of quartz fragments was observed around each outcropping with the largest scatter containing many worked flakes. This Aboriginal quartz quarry is known to the Ngiyampaa People and has ties to Sandy Creek Aboriginal trading route. The Ngiyampaa People have not visited the quarry in recent years however it is part of their stories (pers. Comm. Mr Joshua Clarke)	
PIPE OS1	439274	644388	This open site contains an outcropping of high quality quartz with evidence of mining and a quartzite complete flake. The flake measures 55 mm long, 40 mm wide and 4 mm thick and contains 2 negative scars the on distal side with evidence of retouch along the edge. The sites measures approximately 60 m by 30 m.	

Site ID	GDA z55E	GDA z55N	Description	Photograph
PIPE OS2	439382	6443613	PIPE OS2 contains an outcropping of high quality quartz and a core made of quartzite. The core measure 50 mm long, 40 mm wide and 20 mm thick.	

Site ID	GDA z55E	GDA z55N	Description	Photograph
PIPE CMT1	437863	6445564	PIPE CMT1 is located within a flat grassy woodland landscape context. The scar is located on a dead Bimble Box on the southern side of the tree. The tree and the scar show evidence of ringbarking. The tree is approximately 10 m high and with a circumference of 1.9 m. The scar measures 79 cm long, 13 cm wide, 10 cm deep, with 19 cm of regrowth. The scar is approximately 30 cm above the ground.	

Site ID	GDA z55E	GDA z55N	Description	Photograph
PIPE CMT2	438080	6445025	PIPE CMT2 is located within a flat grassy woodland landscape context and is approximately 5 m east of a drainage line. The scar is located on the south west side of a dead Bimble Box tree that is approximately 10 m high and with a circumference of 1.7 m. The scar measures 1.1 m long, 23 cm wide, 10 cm deep and with a regrowth of 30 cm.	

Site ID	GDA z55E	GDA z55N	Description	Photograph
PIPE CMT3	438746	6444434	PIPE CMT3 is located within a flat grassy woodland landscape context. The scar is located on the southern side of the tree. The dry face is extremely weathered and mostly missing. The scar measures 1.1 m long, 17 cm wide, and 15 cm deep with 10 cm of regrowth. The tree a dead Bimble Box that is approximately 22 m high.	

Site ID	GDA z55E	GDA z55N	Description	Photograph
PIPE CMT4	438247	6446372	PIPE CMT4 is located 20 m south of a drainage line. The tree is a dead Gum Coolabah that has been historically ringbarked and measures 170 cm in circumference. The scar is 110 cm long, 10 cm wide and 2 cm deep. The scar has 15 cm of regrowth.	

Site ID	GDA z55E	GDA z55N	Description	Photograph
PIPE CMT5	4380307	6446211	PIPE CMT5 is a possible marker tree. The tree is a living Gum Coolabah that is approximately 3.7 m in circumference. It contains one large scar on the south side and two smaller scars on the west and northern sides. The south scar is 210 cm long, 26-10 cm wide, 23 cm deep and has 30 cm of regrowth. The scar is located 20 cm from the ground. The west scar is 90 cm long, 19 cm wide, 30 cm deep and has 10 cm of regrowth. The scar is 150 cm from the ground. The north scar is 70 cm long, 12 cm wide, 30 cm deep and has approximately 10 cm of regrowth. The scar is approximately 150 cm from the ground. The tree is also approximately 500 m north east of Federation Services Route Aboriginal Quarry 01	

6.8.2 The Peak CMT 6

Site coordinates: GDA Zone 55 435513E 6446769N

The Peak CMT 6 is located within the southeast portion of the proposed solar farm (Figure 6-34). The scar is located on the western face of a dead Bimble box and measures 60 centimetres long, 10 centimetres wide and 4 centimetres deep (Figure 6-37). The tree has been ring barked and the upper branches lopped off (Figure 6-38). GSV surrounding the tree is moderate (50%).

Figure 6-37: The Peak CMT 6 facing north



Figure 6-38: The Peak CMT 6 facing south



6.8.3 Federation Deposit CMT 7

Site coordinates: GDA Zone 55 439718E 6441779N

The tree is a living Bimble box with multiple branches with scars (Figure 6-39). The cultural scar is located on the east face of the lower limb and measures 30 centimetres long, 10 centimetres wide and 5 centimetres deep (Figure 6-40). The cultural scar is located 450 millimetres above the ground and does not contain any visible stone axe marks. GSV surrounding the tree was low due to the dense ground cover of grasses and broadleaf leaves.

Figure 6-39: Federation Deposit CMT 7 facing west



Figure 6-40: Close up of the cultural scar on CMT 7



6.8.4 Federation Deposit CMT 8

Site coordinates: GDA Zone 55 433406E 6436650N

The Aboriginal site is located 100 metres east of Burthong Rd and 40 metres north of the southern access road. The tree contains two scars on the northeast and southwest faces of a living Gum Coolabah. Largest scar is on the northeast side and measures 1.9 metres long, 0.88 metres wide and 0.15 metres deep (Figure 6-41). The bark from this scar was most likely utilised as a shelter. The smaller scar on the southwest face measures 1.7 metres long, 0.25 metres wide, and 0.27 metres deep (Figure 6-42). The bark from this scar could have been utilised for a shield.

Figure 6-41: Scar on the northeast side of Federation Deposit CMT 8



Figure 6-42: Scar on the southwest side of Federation Deposit CMT 8



6.8.5 Federation Deposit CMT 9

Site coordinates: GDA Zone 55 434576E 6436360N

Federation Deposit CMT 9 is located 73 metres west of the existing track and proposed pipeline network. The scar is on the southern side of a dead tree, possibly a Gum Coolabah (Figure 6-43). The scar is oval in shape and measures 170 centimetres long, 74 centimetres wide, and 18 centimetres deep (Figure 6-44). The scar is located 80 centimetres above the ground.

Figure 6-43: Federation Deposit CMT 9 facing north



Figure 6-44: Close up of the cultural scar on CMT 9



6.8.6 Federation Deposit CMT 10

Site coordinates: GDA Zone 55 434762E 6437748N

Federation Deposit CMT 10 is located 42 metres south of the proposed production bore pipeline. The scar is on the southern side of the living Gum Coolabah and measures 150 centimetres long, 40 centimetres wide and 10 centimetres deep (Figure 6-45). The scar is approx. 10 centimetres above the ground. GSV surrounding the tree was low due to the leaf litter (Figure 6-46).

Figure 6-45: Federation Deposit CMT 10 facing north



Figure 6-46: Close up of the cultural scar on CMT 10 and low GSV



6.8.7 Federation Deposit CMT 11

Site coordinates: GDA Zone 55 435820E 6438538N

Federation Deposit CMT 11 is comprised of two scars on the eastern and southern sides of a dead tree. The southern scar is approximately 1.7 metres above the ground and measures 70 centimetres long, 24 centimetres wide and 0 centimetres deep (Figure 6-47). The scar on the

western side is 50 centimetres above the ground and measures 100 centimetres long, centimetres wide and 10 centimetres deep (Figure 6-48).

Figure 6-47: View north showing the scar high above the ground



Figure 6-48: View west showing the bottom scar



6.8.8 Federation Deposit CMT 12

Site coordinates: GDA Zone 55 435230E 6437935N

Federation Deposit CMT 12 contains a scar high off the ground that has mostly closed over. The scar measures 100 centimetres long, 10 centimetres wide and the depth could not be measured as it was more than two metres above the ground (Figure 6-49). A quartz crystal was observed at the base of the tree (Figure 6-50).

Figure 6-49: Federation Deposit CMT 12 facing west



Figure 6-50: Quartz crystal located at the base of the tree



6.8.9 Federation Deposit CMT 13

Site coordinates: GDA Zone 55 440381E 6435866N

Federation Deposit CMT 13 is located within a Bimble Box and Gum Coolabah grassy woodland. The scar is located on the southeast side of a dead Cyprus Pine, and measures one metre long, 12 centimetres wide and 6 centimetres deep. The scar is 85 centimetres above the ground with a tree circumference of 1.43 metres. There is evidence of ring barking on the tree occurring after the scar was made. Soils surrounding the tree are a red sandy silt. This site is located 100 metres north of the proposed bore pad and 80 metres northeast of Federation Deposit CMT 14.

Figure 6-51: Federation Deposit CMT 13 facing west



Figure 6-52: Close up of the cultural scar on CMT 13



6.8.10 Federation Deposit CMT 14

Site coordinates: GDA Zone 55 440420E 6435798N

Federation Deposit CMT 14 is located 10 metres west of an existing track, 70 metres north east of the proposed production bore pad and 80 metres south east of Federation Deposit CMT 13. The tree is a dead Cyprus Pine that has fallen and currently being held up by a Gum Coolabah to the east. Federation Deposit CMT 14 is comprised of two cultural scars on the north and south sides of the tree. The scar on the northern side measures 134 centimetres long, 29 centimetres wide, 7 centimetres deep and 28 centimetres from the base of the tree. The scar on the southern side is the larger of the two and measures 154 centimetres long, 22 centimetres wide, and 7 centimetres deep.

Figure 6-53: Northern scar on Federation Deposit CMT 14



Figure 6-54: Southern scar on Federation Deposit CMT 14



Figure 6-55: Context shot of Federation Deposit CMT 14 in relation to Federation Deposit CMT 13 (red arrow)



6.8.11 Federation Deposit H2

Site centroid: GDA Zone 55 440150E

6440514N

Federation Deposit H2 is located within a clearing of Mallee scrub. The site is within a flat landform context and measures approximately 12 metres by 15 metres (Figure 6-56). The site contains several clumps of bake clay balls, approximately 80 mm by 60 mm (Figure 6-57) and has been interpreted as a hearth. At the southern end of the site a Kurrajong tree with a hole at the base was observed (Figure 6-58). Discussions with the site officers suggest that this hole would have been used to store water (Figure 6-59). GSV was high (70%) with H2 with large exposures.

Figure 6-56: View south across H2



Figure 6-57: Close up of the clay ball associated with H2



Figure 6-58: Kurrajong tree with hole in the base of the tree



Figure 6-59: Close up of the hole in the base of the Kurrajong



6.8.12 Federation Deposit H3

Site centroid: GDA Zone 55 440342E 6440130N

Federation Deposit H3 is located 80 metres north of a proposed bore FWB044 and consists of several clusters of baked clay clumps. The site has been interpreted as a hearth. The clusters are scattered amongst the Mallee and Cyprus pine, the site measuring 20 meters north-south and 15 metres east-west (Figure 6-60). GSV within the site and surrounding area was low to moderate (20-40%) due to leaf litter from the trees (Figure 6-61). Natural resources such as Quandong and kurrajong trees were observed within the area.

Figure 6-60: View north showing clay clusters amongst the vegetation



Figure 6-61: View west across Federation Deposit H3



6.8.13 Federation Deposit H4

Site centroid: GDA Zone 55

440745E

6438406N

This site is located adjacent a proposed bore track alignment and 35 metres north of the proposed location of bore FWB047. The site is possibly a campsite with contains clusters of clay clumps with charcoal observed within the baked clay (Figure 6-62). Federation Deposit H4 measures 10 metres long and 5 meters wide. No stone artefacts were observed within the vicinity.

Federation Deposit H4 is located on a flat landform context with the surrounding vegetation containing a Bimble Box, Gum Coolabah grassy woodland. GSV was low (30%) within the site and the surrounding area.

Figure 6-62: View north showing clay clusters within Federation deposit H4



Figure 6-63: Close up of a cluster of clay balls within Federation deposit H4



6.8.14 Federation Deposit H5

Site centroid: GDA Zone 55 440970E 6437921N

This Aboriginal site is located 15 metres west of the indicative pipeline network to a proposed bore, and 10 metres east of quartz vein on the surface (Figure 6-64). Federation Deposit H5 is within a Bimble Box, Gum coolabah grassy woodland vegetation context with natural resources in the surrounding area include Kurrajong, Quandong, and Bush yams. The site has been interpreted as a hearth and contains one cluster of baked clay balls and measure five metres long and five metres wide (Figure 6-65).

Figure 6-64: View west across the site towards the quartz outcrop



Figure 6-65: Cluster of clay balls associated with Federation Deposit H5, facing south



6.8.15 Federation Deposit H6

Site centroid: GDA Zone 55 435687E 6438248N

Federation Deposit H6 is located 20 metres east of an indicative pipeline network and measure 5 metres by 5 metres. The site has been interpreted as a hearth and contains a single cluster of baked clay balls with charcoal inclusions. No stone tools or natural resources were observed.

Figure 6-66: View west across the site towards the quartz outcrop



6.8.16 The Peak Rock Water Hole 1

Site centroid: GDA Zone 55 437620E 6445589N

A depression was observed within an outcropping of rock approx. 260 metres southwest of the Aboriginal quartz quarry (AHIMS ID 34-2-0026). The hole measures 300 mm long, 250 mm wide and 100 mm deep, and appears to be a naturally made (Figure 6-67). Discussion with the RAPs identified this hole as a possible water source for Aboriginal people. Rain would have filled the hole and a covering would have been placed over the it to stop evaporation.

Figure 6-67: View southeast showing rock hole



Figure 6-68: Close up of the rock hole



6.9 Cultural Resources

The presence of cultural resources within the Project was observed during the fieldwork. This included Quandong trees which provide edible fruit as well as Mallee trees suitable for didgeridoo manufacture⁴. While didgeridoos are not known to be a traditional instrument in this area, they are used by the modern Aboriginal population.

6.10 Discussion

The results of the field survey are generally consistent with the predictive model, although it is somewhat unexpected that 15 sites were recorded. The predictive model formulated in Section 4.4 concluded that there was a low likelihood of sites to be present in the Project area, although it was possible for there to be evidence of sporadic occupation.

No clear patterns emerge when site distribution is assessed in terms of distance to water. Some temporary drainage lines were observed nearby to some sites, but other sites were not near any form of water source.

It is likely the lack of recorded sites in the region is partly a function of the sporadic nature of archaeological investigation. The absence of reliable water is also likely a major factor, but it is difficult to reach this conclusion without a stronger archaeological context. This affects the ability to form a predictive model with great confidence.

The Aboriginal sites recorded during the survey fell into two site types; culturally modified trees (carved or scarred), and hearths. No stone artefacts were observed surrounding the hearths indicating that the camps could have been used for a short term before the parties moved on. The recorded site types were typical of the region and are consistent with the predictive model. The site types are common in the region. The fact that all sites consisted of few or isolated features is in line with the observation that less intense occupation is expected at increased proximity from reliable water.

It is possible there are unrecorded Aboriginal sites within the Project area. If present, unrecorded Aboriginal sites likely would be culturally modified trees (scarred), isolated stone artefacts or hearths. Extensive or significant Aboriginal sites, if they occurred, would almost certainly have been detected due to the high GSV and all mature trees were inspected for modification. The necessary environmental features were not present for other Aboriginal site types.

Sub-surface remains are very unlikely to be present. Soils on the flats are sandy appear to be quite degraded (the current soil surface is often the top of the B horizon). The soils along the ridgeline are rocky soils with sandstone outcrops not suitable for knapping. Given that there are few surface manifestations of Aboriginal occupation, it is unlikely that more remains would be present below the surface.

⁴ Didgeridoo was restricted to northern NT and WA pre-European occupation but is now widely used by all post contact Australian communities. Bamboo didgeridoos were quite common among northerly groups in the Northern Territory pre-European settlement.

7 Impact and Management

7.1 Overview

Cultural heritage values require management for any proposal where they have been identified. Whether an impact is direct, indirect, or possible, Aboriginal sites will require some level of intervention to avoid harm where possible. The following section encompasses the 13 Aboriginal sites recorded as part of the *Hera Resources Exploration on the Dominion Prospect* (AREA 2018) and *Federation Exploration Decline Program Aboriginal Heritage Due Diligence Assessment* (AREA 2021) surveys in conjunction with the sites recorded in Section 6.8. The distribution of the Aboriginal sites are shown in Figure 7-1 to Figure 7-5.

7.2 Impacts to Aboriginal Cultural Heritage

A total of 28 Aboriginal sites have been recorded during the archaeological surveys. All Aboriginal sites except for The Peak CMT 6 are outside the proposed impact footprint for the Project. The proponent has committed that The Peak CMT 6 will remain in situ and be surrounded by a ten-meter buffer. The following Aboriginal sites are within 100 metres of the Project and will require some management of Project activities to avoid inadvertent impact:

- PIPE OS1
- PIPE OS2
- Federation Deposit Scar Tree 1
- Federation Deposit Scar Tree 2
- Federation Deposit H1
- Federation Deposit H2
- Federation Deposit H3
- Federation Deposit H4
- Federation Deposit H5
- Federation Deposit H6
- PIPE CMT 4
- PIPE CMT 5
- Federation Deposit CMT 7
- Federation Deposit CMT 8
- Federation Deposit CMT 9
- Federation Deposit CMT 11
- Federation Deposit CMT 12
- Federation Deposit CMT 13
- Federation Deposit CMT14

The remaining eight Aboriginal sites are further than 100 meters of the Project and will require some management of Project activities to avoid inadvertent impact. Potential impacts to Aboriginal cultural heritage under the current design for the Project are summarised in Table 7-1.

Discussion with the RAPs at the AFGM determined the favored method of management is for the Aboriginal sites within 100 metres of the Project to be re-identified with the assistance of a qualified archaeologist and the Aboriginal community. Standard farm fencing should be erected around each site. A buffer of ten metres should be between the trunk of the culturally modified trees and the fencing, or five metres from the boundaries of the other sites.

Table 7-1: Summary of Impacts to Aboriginal Cultural Heritage

Site ID	Impact Unless Managed	Effect of proposal on Significance	Actual impact with implementation of the mitigation measures	Distance from the Project
The Peak CMT 6	Possible	None if managed	nil	Within the Project
Federation Deposit CMT 7	Possible	None if managed	nil	Within 100 m

Site ID	Impact Unless Managed	Effect of proposal on Significance	Actual impact with implementation of the mitigation measures	Distance from the Project
Federation Deposit CMT 8	Possible	None if managed	nil	Within 100 m
Federation Deposit CMT 9	Possible	None if managed	nil	Within 100 m
Federation Deposit CMT 10	Possible	None if managed	nil	Further than 100 m
Federation Deposit CMT 11	Possible	None if managed	nil	Within 100 m
Federation Deposit CMT 12	Possible	None if managed	nil	Within 100 m
Federation Deposit H2	Possible	None if managed	nil	Within 100 m
Federation Deposit H3	Possible	None if managed	nil	Within 100 m
Federation Deposit H4	Possible	None if managed	nil	Within 100 m
Federation Deposit H5	Possible	None if managed	nil	Within 100 m
Federation Deposit H6	Possible	None if managed	Nil	Within 100 m
Peak Rock Water Hole 1	Possible	None if managed	Nil	Further than 100 m
Dominion Ground axe 01 (AHIMS ID 34-2-0031)	Possible	None if managed	Nil	Further than 100 m
Federation Deposit Scar Tree 1 (AHIMS ID 38-2-0191)	Possible	None if managed	Nil	Within 100 m
Federation Deposit Scar Tree 2 (AHIMS ID 38-2-0188)	Possible	None if managed	Nil	Within 100 m
Federation Deposit Isolate Find 1 (AHIMS ID 38-2-0189)	Possible	None if managed	Nil	Further than 100 m
Federation Deposit H1 (AHIMS ID 38-2-0190)	Possible	None if managed	Nil	Within 100 m
PIPE Aboriginal Quarry 01 (AHIMS ID 34-2-	Possible	None if managed	Nil	Further than 100 m

Site ID	Impact Unless Managed	Effect of proposal on Significance	Actual impact with implementation of the mitigation measures	Distance from the Project
0026)				
PIPE OS1 (AHIMS ID 34-2-0027)	Possible	None if managed	Nil	Within 100 m
PIPE OS2 (AHIMS ID 34-2-0028)	Possible	None if managed	Nil	Within 100 m
PIPE CMT1 (AHIMS ID 34-2-0029)	Possible	None if managed	Nil	Further than 100 m
PIPE CMT2 (AHIMS ID 34-2-0030)	Possible	None if managed	Nil	Further than 100 m
PIPE CMT3 (AHIMS ID 34-2-0032)	Possible	None if managed	Nil	Further than 100 m
PIPE CMT4 (AHIMS ID 34-2-0033)	Possible	None if managed	Nil	Within 100 m
PIPE CMT5 (AHIMS ID 34-2-0034)	Possible	None if managed	Nil	Within 100 m

Figure 7-1: Aboriginal sites grouped by report

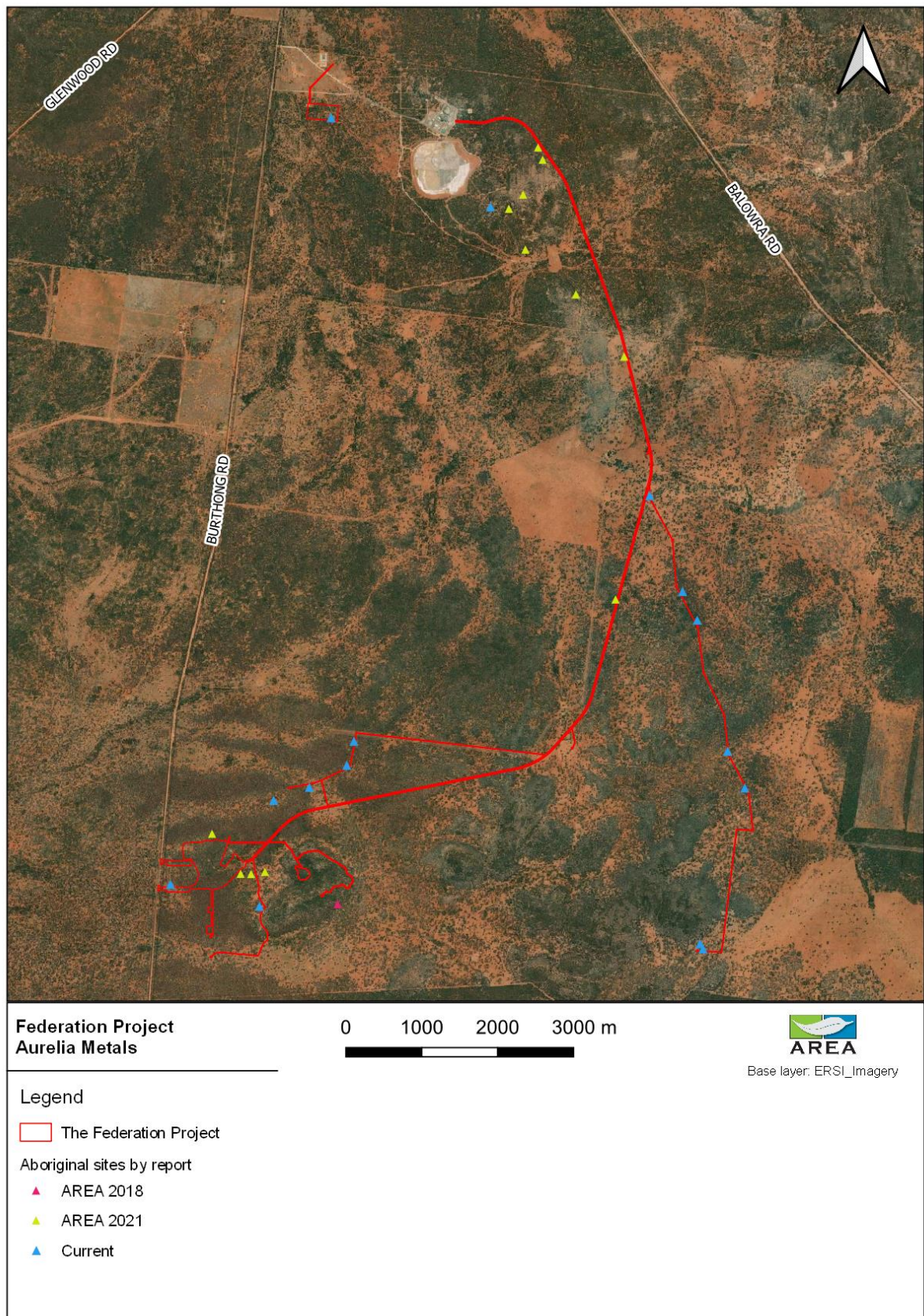


Figure 7-2: All Aboriginal sites recorded near Hera Mine

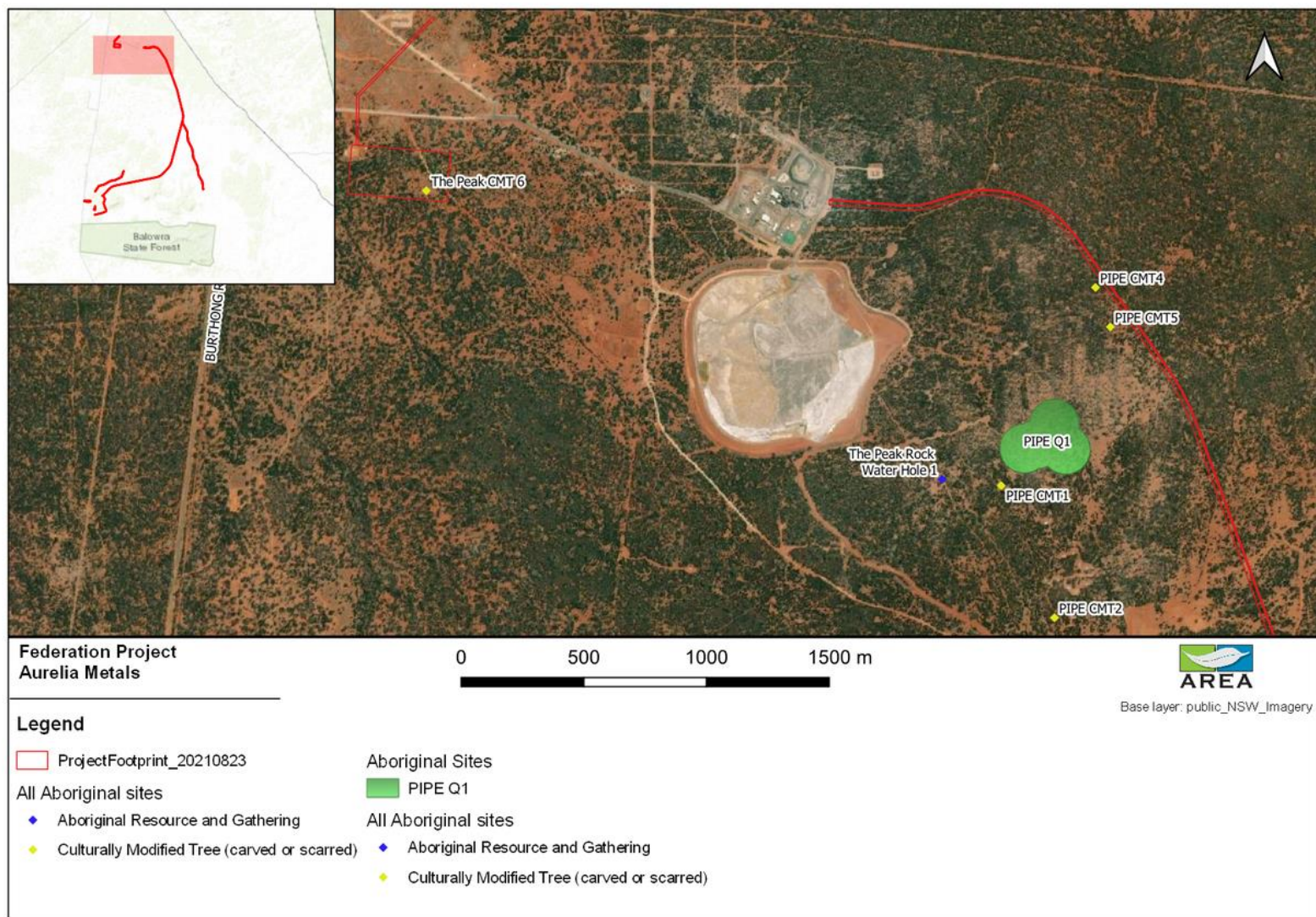


Figure 7-3: All Aboriginal sites recorded in the eastern section of the Project

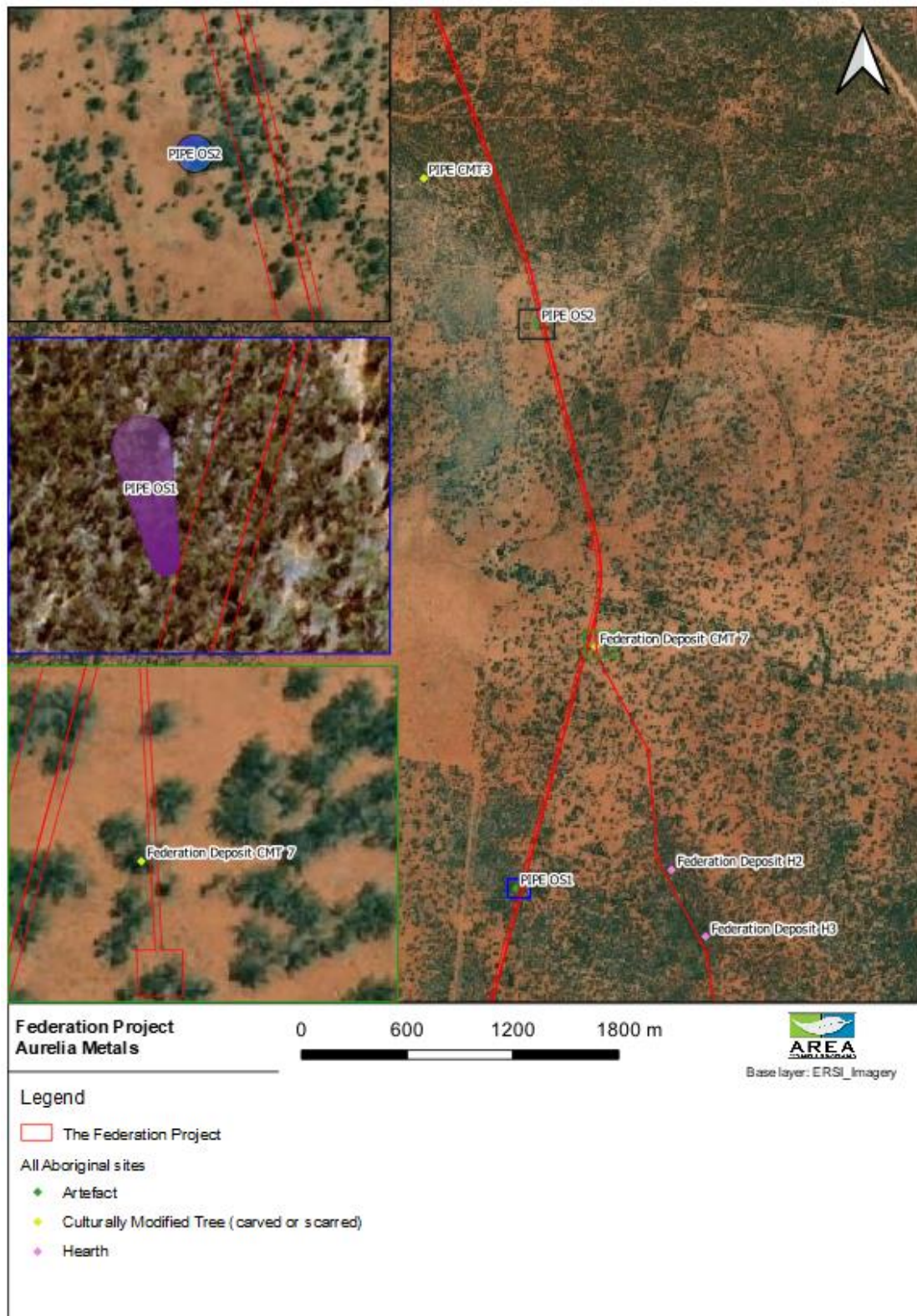


Figure 7-4: All Aboriginal sites recorded within the southern section of the Project

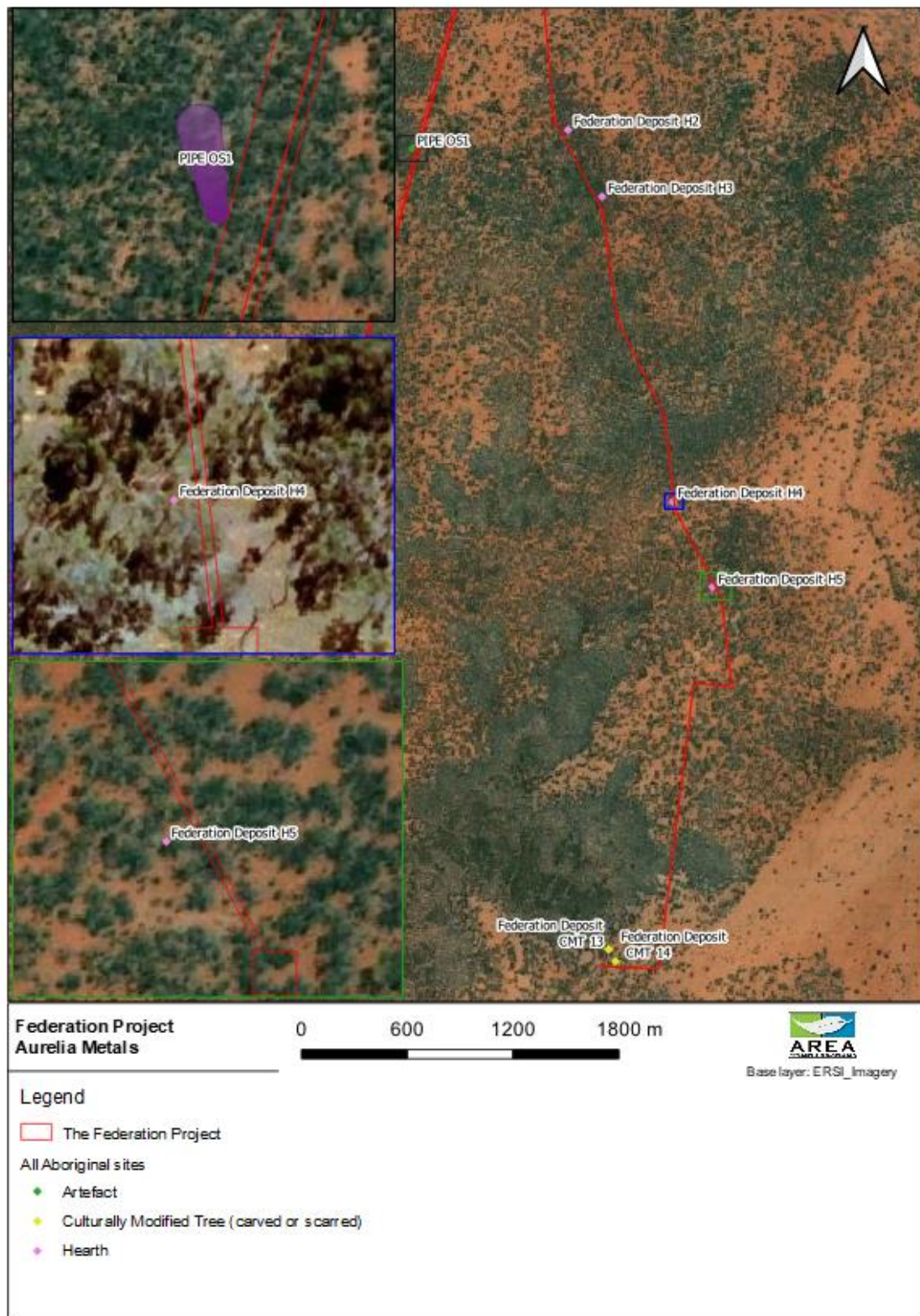
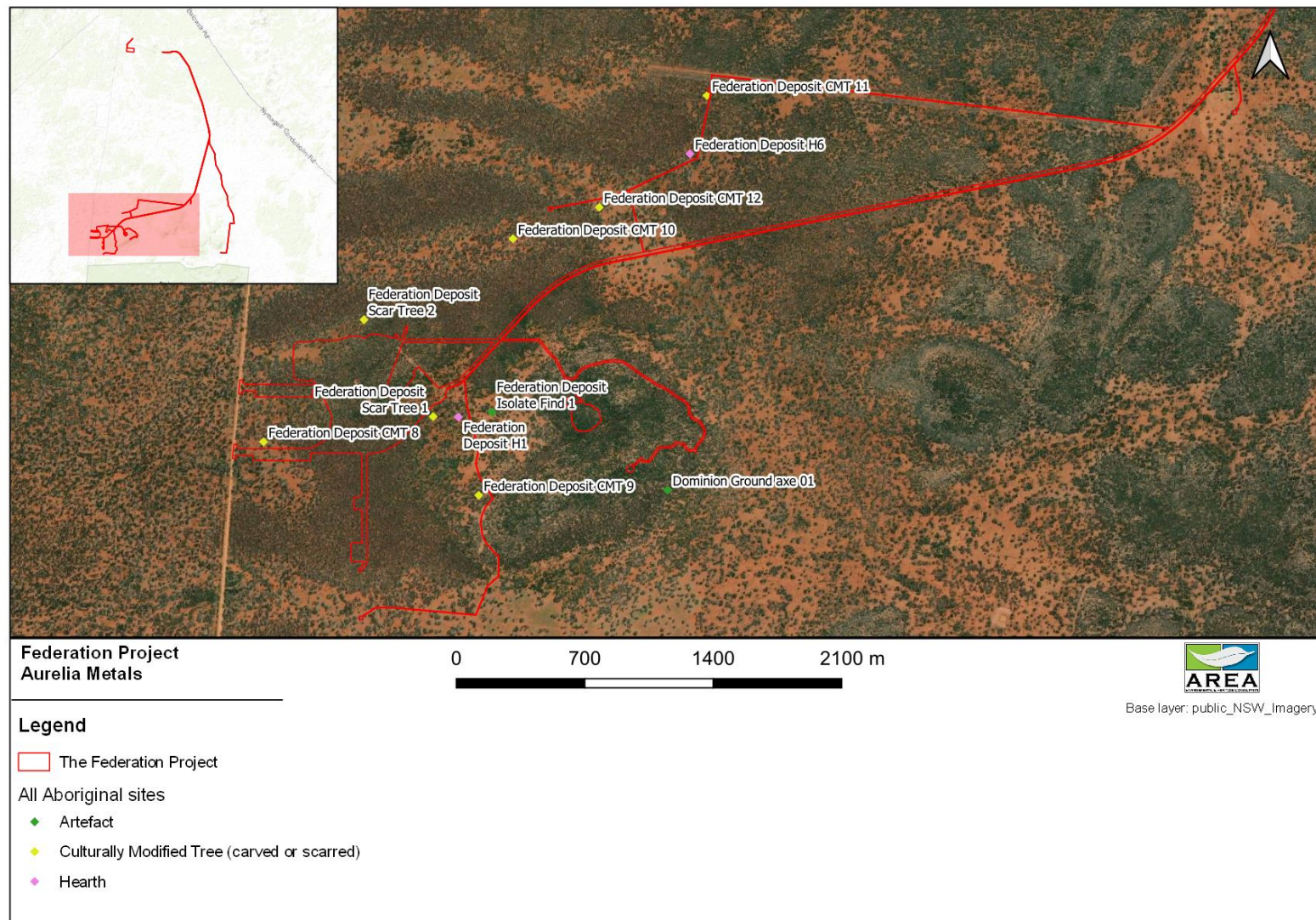


Figure 7-5: All Aboriginal sites recorded near the Federation Site



8 Recommendations

A total of 28 Aboriginal sites have been recorded during the archaeological surveys. One (The Peak CMT 6) within the Project footprint (which can be avoided), 19 Aboriginal sites are within 100 metres of the Project, and the remaining eight are further than 100 metres from the Project and will not be impacted by the proposed works.

Recommendations are based with consideration of:

- the requirements of the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW 2010)
- the results of the background research and fieldwork
- the likely impacts of the proposed Federation project.

Based on the assessment, the following recommendations are made:

- In order to avoid inadvertent impact to Aboriginal sites, the following measures are recommended:
 - The locations of the cultural heritage sites should be provided to the relevant supervisors responsible for the construction and operation of the Project (see Section 1.3 for site details). They should be informed that cultural heritage sites are protected under the NPW Act and no harm is to come to them. The presence of the cultural heritage sites should be made clear to the workforce as part of an induction
 - Re-identify with the assistance of a qualified archaeologist and the Aboriginal community any Aboriginal sites within 100 metres of proposed impacts and standard farm fencing around each with a buffer of ten metres from the trunk of the culturally modified trees and five metres from the boundaries of the open sites.
- If changes are made to the proposed works which could impact locations outside of the proposed Project disturbance area, further archaeological investigation may be required
- If any objects of suspected Aboriginal heritage origin are encountered during the proposed works, work in the area of the find should cease and the unexpected finds protocols (Appendix C) should be implemented.
- If suspected human remains are located during any stage of the proposed works, work must stop immediately, and the NSW police must be notified.

9 References

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- NSW Office of Environment & Heritage (OEH). (2011). *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW*. NSW Office of Environment & Heritage.
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<http://www.environment.nsw.gov.au/bioregions/BrigalowBeltSouthBioregion.htm>. Accessed 20 July 2020. NSW Office of Environment & Heritage
- OzArk Environmental & Heritage Management Pty Ltd. (2011). *Hera Project Heritage Assessment*. Report to R.W. Corkery & Co. Pty Limited.

Appendix A: Aboriginal community consultation

Current consultation log

Date	Stage	Organisation	Communication	Method(s)	Response RECEIVED	Response Detail
Stage 1						
22.05.2020	1a	The Cobar weekly	Ad featured in the classifieds	Email		
22.05.2020	1a	ALRA	Sent letter requesting list of RAPs to Gov agencies	Email		
22.05.2020	1a	Local Land Services - LLS	Sent letter requesting list of RAPs to Gov agencies	Email	Thanks Ruth, Gabrielle, I've notified Ronni O'Donnell, who will respond. Ben Benjamin Slingsby Team Leader Land Services Local Land Services Western Region PO Box 363 32 Enterprise Way Buronga NSW 2739 T: 03 5021 9408 F: 03 5021 1308 M: 0409 334 970 W: www.western.lls.nsw.gov.au Sign up to our newsletter for the latest news, events and updates From: Ruth Stevens <ruth.stevens@lls.nsw.gov.au> Sent: Friday, 22 May 2020 4:00 PM To: Ben Slingsby <ben.slingsby@lls.nsw.gov.au> Cc: Gabrielle Green <gabbi@areaenv.com.au> Subject: FW: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW. Good Afternoon Gabrielle, I have forwarded this through to Ben Slingsby for his action. Thanks Thanks Ruth, Gabrielle, I've notified Ronni O'Donnell, who will respond. Ben Benjamin Slingsby Team Leader Land Services Local Land Services Western Region	From: Ruth Stevens <ruth.stevens@lls.nsw.gov.au>From: Ruth Stevens <ruth.stevens@lls.nsw.gov.au> Sent: Friday, 22 May 2020 4:01 PM To: Ben Slingsby <ben.slingsby@lls.nsw.gov.au> Cc: Gabrielle Green <gabbi@areaenv.com.au> Subject: FW: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW. Good Afternoon Gabrielle, I have forwarded this through to Ben Slingsby for his action. Thanks ***** From: Ben Slingsby <ben.slingsby@lls.nsw.gov.au> Sent: Friday, 22 May 2020 4:11 PM To: Ruth Stevens <ruth.stevens@lls.nsw.gov.au> Cc: Gabrielle Green <gabbi@areaenv.com.au>; Ronni O'Donnell <ronni.odonnell@lls.nsw.gov.au> Subject: Re: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW. Thanks Ruth, Gabrielle, I've notified Ronni O'Donnell, who will respond.

					PO Box 363 32 Enterprise Way Buronga NSW 2739 T: 03 5021 9408 F: 03 5021 1308 M: 0409 334 970 W: www.western.lls.nsw.gov.au Sign up to our newsletter for the latest news, events and updates From: Ruth Stevens <ruth.stevens@lls.nsw.gov.au> Sent: Friday, 22 May 2020 4:00 PM To: Ben Slingsby <ben.slingsby@lls.nsw.gov.au> Cc: Gabrielle Green <gabbi@areaenv.com.au> Subject: FW: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW. Good Afternoon Gabrielle, I have forwarded this through to Ben Slingsby for his action. Thanks	Ben Benjamin Slingsby Team Leader Land Services Local Land Services Western Region PO Box 363 32 Enterprise Way Buronga NSW 2739 T: 03 5021 9408 F: 03 5021 1308 M: 0409 334 970 ***** From: Ronni O'Donnell <ronni.odonnell@lls.nsw.gov.au> Sent: Tuesday, 26 May 2020 3:24 PM To: Gabrielle Green <gabbi@areaenv.com.au> Cc: Ben Slingsby <ben.slingsby@lls.nsw.gov.au>; Guy Gibbs <guy.gibbs@lls.nsw.gov.au>; Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: Aboriginal Cultural Heritage Assessment Response Dear Gabrielle Thank you for your correspondence Re: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW requesting assistance in identifying Aboriginal groups, stakeholders or traditional knowledge holders interested in the management of Indigenous heritage matters in your project area. Local Land Services Western Region acknowledges that LLS's have been listed in Section 4.1.2 (g) of the Aboriginal Cultural Heritage Consultation Requirements for proponents 2010, under Part 6, National Parks and Wildlife Act 1974 as a source of information to obtain the "names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places". It is recommended by LLS Western that you contact the following Aboriginal Community groups in regard to cultural heritage matters
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					within the project area. • Cobar LALC • Native Title Claimants: Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012.001, Federal Court No NSD38.2019) Please note that LLS Western takes no responsibility for the groups listed as being the only persons or groups who may have a cultural heritage interest in your project area and further investigation may be necessary within your consultation process. If you have any further questions or queries in regard to this matter please do not hesitate to give me a call. Respectfully Ronni O'Donnell Senior Land Services Officer Aboriginal Communities Western Local Land Services 32 Enterprise Way PO Box 363 Buronga NSW 2739 T: 03 5021 9429 F: 03 5021 1308 Mb: 0409 334 956 E: ronni.odonnell@lls.nsw.gov.au
22.05.2020	1a	National Native Title Tribunal - NNTT	Sent letter requesting list of RAPs to Gov agencies	Email	From: Enquiries <Enquiries@nntt.gov.au> Sent: Friday, 22 May 2020 3:34 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW. UNCLASSIFIED Good Afternoon Gabrielle, Thank you for your enquiry regarding Register Searches. To enable us to complete the search appropriately and adequately, please forward your request, along with a Geospatial Search Form, to the following email address: GeospatialSearch@NNTT.gov.au A Geospatial Search Form must accompany

					your request. Search request forms are available for download from our website at: http://www.nntt.gov.au/assistance/Geospatial/Pages/Geospatial_Searches.aspx Further information on searching our Registers is available at: http://www.nntt.gov.au/assistance/Pages/Searches-and-providing-Register-information.aspx Please note: Freehold Land - The National Native Title Tribunal does not hold data sets for freehold tenure. For further information on freehold land and native title claims, please visit our website at: http://www.nntt.gov.au/nativetitleclaims/Pages/Native-title-claims-and-freehold-land.aspx Cultural Heritage - The existence or otherwise of native title is quite separate to any matters relating to Aboriginal cultural heritage. In NSW, the National Native Title Tribunal has undertaken steps to remove itself from the formal list of sources for information about indigenous groups in development areas. Kind Regards Madeline Enquiries Public enquiry hours are 8.30am to 4.30pm National Native Title Tribunal Email enquiries@nntt.gov.au Free call 1800 640 501 www.nntt.gov.au	
22.05.2020	1a	NTSCORP	Sent letter requesting list of RAPs to Gov agencies	Email	From: James MacLeod <jmacLeod@ntscorp.com.au> Sent: Wednesday, 10 June 2020 2:06 PM To: Gabrielle Green <gabbi@areaenv.com.au> Cc: Isobel Brinin <ibrinin@ntscorp.com.au>; Matilda Vaughan <mvaughan@ntscorp.com.au> Subject: RE: NNWW Notice of Aboriginal Cultural Heritage Assessment for a proposed mine 17km south of Nymagee 22 May 2020 Dear Gabrielle Please register the Ngemba, Ngiyampaa, Wangaaypuwan, and Wayilwan Native Title	

					Applicant as an interested Aboriginal party. We request that NTSCORP be notified of future opportunities for cultural heritage work in relation to this project. On receiving such notices, we will speak to the Applicant who will nominate individuals for that work. Kind regards James James MacLeod Senior Solicitor NTSCORP proudly acknowledge that our office is situated on the country of the Gadigal People of the Dharug Nation. We also acknowledge and pay our respect to their Elders past and present. t 02 9310 3188 f 02 9310 4177 d 02 8306 2735 m 0498 980 212 e jmacleod@ntscorp.com.au w www.ntscorp.com.au Level 1, 44-70 Rosehill Street, Redfern, NSW 2016 Australia	
22.05.2020	1a	Department of Planning, Industry and Environment - DPIE	Sent letter requesting list of RAPs to Gov agencies	Email	From: Environment Line <info@environment.nsw.gov.au> Sent: Friday, 22 May 2020 4:51 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: Re: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW. [ref:_00D7F6iTix._5007F114JYp:ref] Hi Gabrielle, I have referred your inquiry to the appropriate Team for a response. Regards, Hillan Nzioka Environment Line, Business Information and Services Department of Planning, Industry and Environment ? : 131 555 02) 9995 5910 Email: info@environment.nsw.gov.au 4 Parramatta Square, 12 Darcy Street, NSW	From: Michelle Howarth <Michelle.Howarth@environment.nsw.gov.au> Sent: Tuesday, 26 May 2020 12:28 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW Hi Gabrielle Please find attached our response to your request. Thanks Michelle Howarth Senior Conservation Planning Officer, Planning North West I work part time Monday, Friday and alternate Tuesday's Biodiversity and Conservation Division Department of Planning, Industry and Environment

					2150 www.dpie.nsw.gov.au	T 02 6883 5339 E michelle.howarth@environment.nsw.gov.au 48-52 Wingewarra St (PO Box 2111), Dubbo NSW 2830
22.05.2020	1a	Local Aboriginal Land Services - LALC	Sent letter requesting list of RAPs to Gov agencies	Email	Hi Phil Amy has passed on this e-mail and I will get onto arranging this tomorrow Thanks Rena Clements Chief Executive Officer (CEO) Cobar Local Aboriginal Land Council 23 Railway Parade (PO Box 410) Cobar NSW 2835 P: (02) 6836 1144 F: 02 6836 1292 E: ceo@cobarlalc.com "Always was, always will be Aboriginal Land " Respectfully, I would like to acknowledge the (NGIYAMPAA) Traditional Custodians of the land on which I work and also Elders past and present. Note: This email is confidential. If you are not the intended recipient you must not disclose or use the information contained in it. If you have received this email in error please notify us immediately by return email and delete the document. Cobar LALC is not responsible for any changes made to a document other than those made by Cobar LALC or for the effect of the changes on the document's meaning. Cobar LALC accepts no liability for any From: Amy Pagett <housing@cobarlalc.com> Sent: Thursday, 21 May 2020 4:18 PM To: Rena Clements <ceo@cobarlalc.com> Subject: Fwd: Cultural heritage assessment at Nymagee week 13-18 June 2020 ----- Forwarded message ----- From: Phil Cameron <phil@areaenv.com.au> Date: Thu, 21 May 2020, 3:36 pm Subject: Cultural heritage assessment at Nymagee week 13-18 June 2020 To: housing@cobarlalc.com <housing@cobarlalc.com> Cc: Gabrielle Green <gabbi@areaenv.com.au> Hi Amy, My colleague Addy called you today to see of the LALC could provide a sites officer for a project near Nymagee between 13-18 June 2020.	From: Gabrielle Green Sent: Wednesday, 3 June 2020 2:21 PM To: Rena CEO - Cobar LALC <ceo@cobarlalc.com> Cc: Phil Cameron <phil@areaenv.com.au> Subject: RE: Hera management plan review Hi Rena, That sounds great thanks for letting me know 😊 ***** Did you happen to have any comments regarding the Hera Cultural management review that I can pass on to the client ? Kind Regards Gabrielle Green Environmental Administrator AREA Environmental Consultants & Communication (ABN: 29 616 529 867) a: 6 Belmore Street, Dubbo, NSW, 2830 a2: 72 Brisbane Street, Dubbo, NSW, 2830 e: gabbi@areaenv.com.au w: www.areaenvironmental.com.au m:0409 852 098 We acknowledge Traditional Owners and Custodians and their ancestors. From: Rena CEO - Cobar LALC <ceo@cobarlalc.com> Sent: Wednesday, 3 June 2020 1:59 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Hera management plan review Hi Gabby T Thank you for opportunity for a younger person

				We will be sending a more formal letter tomorrow but I'm just taking a chance to say "Hi" and introduce myself as I'm the archaeologist for the job and let you know if you feel like dropping me a line to chat about the job, feel free. Gabbi from our team will be the day to day communicator for the process. The proposed development site is located approximately 17km south of Nymagee and is about 90 hectares. The study area falls within the Cobar LALC boundary and the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012.001, Federal Court No NSD38.2019). Do you have any contact details for any of the Registered claimants living in the Cobar region? I'm reaching out now as the survey for this property will start Saturday 13 June and we hope to have the LALC and Registered Native Title Claims representative on board. I recognise most cultural heritage assessments require a male and female representative (or skilled person and trainee) so I have informed my client this will be a likely cultural heritage assessment requirement of each represented group. Alternatively if you don't have a skilled sites cultural heritage sites officer I can train one on the job. I think the heritage part of the job will take three days, but I'm there for six days to assist the ecologists. I think there is plenty of time to assessment the property Monday to Wednesday (eight hour day of assessment on foot) if your sites officers don't work over weekends, but if they do that's great we can start on the Saturday. We will arrive on Friday to set up our temporary camp. Your guys are more than welcome to camp with us of course. We need to bring everything, fuel, water, bedding, food etc so your team if electing to camp with us will need to do the same. There is no fuel at Nymagee. If they prefer to stay somewhere there is a lodge . farm stay not too far away on the same road (within 10 km I think). Our team needs to pull out Thursday and head to Yathong National Park for some NPWS threatened species monitoring work so can't stay	(trainee) to take part in cultural & heritage I shall have everything in place our set rate is \$600 per day and \$300 for trainee I shall names and dates locked into tomorrow Thank you Rena Clements Chief Executive Officer (CEO) Cobar Local Aboriginal Land Council 23 Railway Parade (PO Box 410) Cobar NSW 2835 P: (02) 6836 1144 F: 02 6836 1292 E: ceo@cobarlalc.com "Always was, always will be Aboriginal Land " Respectfully, I would like to acknowledge the (NGIYAMPAA) Traditional Custodians of the land on which I work and also Elders past and present. Note: This email is confidential. If you are not the intended recipient you must not disclose or use the information contained in it. If you have received this email in error please notify us immediately by return email and delete the document. Cobar LALC is not responsible for any changes made to a document other than those made by Cobar LALC or for the effect of the changes on the document's meaning. Cobar LALC accepts no liability for any From: Gabrielle Green <gabbi@areaenv.com.au> Sent: Wednesday, 3 June 2020 1:04 PM To: CLALC Cobar LALC <ceo@cobarlalc.com> Subject: RE: Hera management plan review Hi Rena, In regards to the Hera management plan the Cobar LALC were involved in the site survey a couple of years ago, the report produced was the Hera management plan, I have attached a copy of it for you. We were just wondering if the Cobar LALC had any comments on the report. There are no new areas being disturbed for the
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					any longer. Anyway – thanks in advance, I'm keen to lock in the survey dates and have a chat with you. Regards Phil	Hera survey. ***** Regarding the upcoming site survey for Federation for the 13th, 14th and 15th June There is space for a third RAP from Cobar LALC if you would like to send a long a youth who is interested in learning about Cultural Heritage Surveys and they will be classified as a trainee in a paid position if that interests you? I spoke to Phil about a training program and in the near future he is unsure what he can organise so this would be a great way to pass on cultural knowledge to the younger generation. This then opens them up with the opportunity of learning how to participate in a site survey and can then participate in other surveys. Regarding accommodation we can organise for the Cobar RAPs to stay at the mining camp and I can confirm that Breakfast, Lunch and Dinner will be supplied for them. Kind Regards Gabrielle Green Environmental Administrator AREA Environmental Consultants & Communication (ABN: 29 616 529 867) a: 6 Belmore Street, Dubbo, NSW, 2830 a2: 72 Brisbane Street, Dubbo, NSW, 2830 e: gabbi@areaenv.com.au w: www.areaenvironmental.com.au m:0409 852 098 We acknowledge Traditional Owners and Custodians and their ancestors.
22.05.2020	1a	Cobar Regional Council	Sent letter requesting list of RAPs to Gov agencies	Email	No response received	
9.06.2020	1a		Response from Cobar weekly EOI – name withheld in this version of report	Email	[REDACTED] Sent: Tuesday, 9 June 2020 5:26 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: Cultural Knowledge	

					Dear Gabbi I'm emailing you to register our interest for consultation in regards to any proposed development at Nymagee, specifically along Burthong Rd as you have mentioned in your ad in the Cobar Weekly. Kind Regards [REDACTED]	
11.06.2020	1a2	posted and emailed stage 1a2 letters to all potential RAPs today	Request EOI in becoming a RAP for the project	Post and Email		
12.06.2020	1a2		Received registration of interest from a protentional RAP	Email	From: Mark Saddler <marksad@live.com.au> Sent: Friday, 12 June 2020 8:32 AM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW. Yamandhu Marang mudyi ? (Are you well friend) Thanks for your email regarding a proposed mine near Nymagee. I would like to register my interest in this area and would also like to have a yarn to the local LALC in the area please ? If you can supply details of the LALC that would be great. Guwayu (Safe Travels) Mark Saddler, Cultural Awareness, School & Tour Programs, Bundyi Cultural Tours, Web Page: www.bundyculture.com.au	Dear Members, This reply is confirmation that your organisation is now a RAP (Registered Aboriginal Party) for this project. Kind Regards Gabrielle Green

					Facebook Page: https://www.facebook.com.WiradjuriMob. You Tube Channel: https://www.youtube.com/channel.UCqQObJ3e8u_WoV7N9xZ2JzA Ph 0412 693 030 I respectfully acknowledge the traditional custodians of my land "The Wiradjuri people"	
19.06.2020	1a2	LLS	LLS emailed to advise of RAPs to contact	Email	From: Ronni O'Donnell <ronni.odonnell@lls.nsw.gov.au> Sent: Tuesday, 26 May 2020 3:24 PM To: Gabrielle Green <gabbi@areaenv.com.au> Cc: Ben Slingsby <ben.slingsby@lls.nsw.gov.au>; Guy Gibbs <guy.gibbs@lls.nsw.gov.au>; Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: Aboriginal Cultural Heritage Assessment Response Dear Gabrielle Thank you for your correspondence Re: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW requesting assistance in identifying Aboriginal groups, stakeholders or traditional knowledge holders interested in the management of Indigenous heritage matters in your project area. Local Land Services Western Region acknowledges that LLS's have been listed in Section 4.1.2 (g) of the Aboriginal Cultural Heritage Consultation Requirements for proponents 2010, under Part 6, National Parks and Wildlife Act 1974 as a source of information to obtain the "names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places". It is recommended by LLS Western that you contact the following Aboriginal Community groups in regard to cultural heritage matters within the project area. • Cobar LALC • Native Title Claimants: Ngemba, Ngayampaa, Wangaaypuwan and Wayilwan accepted for	

					registration native title claim (Tribunal No NC2012.001, Federal Court No NSD38.2019) Please note that LLS Western takes no responsibility for the groups listed as being the only persons or groups who may have a cultural heritage interest in your project area and further investigation may be necessary within your consultation process. If you have any further questions or queries in regard to this matter please do not hesitate to give me a call. Respectfully Ronni O'Donnell Senior Land Services Officer Aboriginal Communities Western Local Land Services 32 Enterprise Way PO Box 363 Buronga NSW 2739 T: 03 5021 9429 F: 03 5021 1308 Mb: 0409 334 956 ***** From: Gabrielle Green Sent: Wednesday, 27 May 2020 1:52 PM To: Ronni O'Donnell <ronni.odonnell@lls.nsw.gov.au> Cc: Ben Slingsby <ben.slingsby@lls.nsw.gov.au>; Guy Gibbs <guy.gibbs@lls.nsw.gov.au>; Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Hello Ronni, Thank you for your reply regarding my email, I will contact the recommended Aboriginal Community Groups you have listed. Kindest Regards	
18.06.2020	1a2	Bundyi Cultural Tours	response to become a RAP	Email	From: Mark Saddler <marksad@live.com.au> Sent: Thursday, 18 June 2020 4:27 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, and a second proposed development site 1 km West of Nymagee, NSW.	Dear Members, This reply is confirmation that your organisation is now a RAP (Registered Aboriginal Party) for this project. Kind Regards Gabrielle Green *****

					Once again I express my interest as well ask asking again for contact details of the LALC that are in this area please ? Guwayu (Safe Travels) Mark Saddler, Cultural Awareness, School & Tour Programs, Bundiy Cultural Tours, Web Page: www.bundyculture.com.au Facebook Page: https://www.facebook.com.WiradjuriMob. You Tube Channel: https://www.youtube.com/channel.UCqQObJ3e8u_WoV7N9xZ2JzA Ph 0412 693 030	From: Mark Saddler <marksad@live.com.au> Sent: Tuesday, 23 June 2020 4:32 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, and a second proposed development site 1 km West of Nymagee, NSW. Mandaang guwu (thank you) Guwayu (Safe Travels) Mark Saddler, Cultural Awareness, School & Tour Programs, Bundiy Cultural Tours,
22.06.2020	1a2	NTSCorp	response to become a RAP	Email	From: James MacLeod <jmacLeod@ntscorp.com.au> Sent: Monday, 22 June 2020 10:36 AM To: Gabrielle Green <gabbi@areaenv.com.au> Cc: Isobel Brinin <ibrinin@ntscorp.com.au>; Matilda Vaughan <mvaughan@ntscorp.com.au> Subject: RE: NNWW- ACHA for proposed mine development project 17 kms South of Nymagee. DOL 11 June 20 Dear Gabbi We confirm that the Ngemba, Ngiyampaa, Wangaaypuwan, and Wayilwan Applicant would like to be kept informed of all developments and opportunities that arise in relation to this project. Kind regards James James MacLeod Senior Solicitor	From: Gabrielle Green Sent: Tuesday, 23 June 2020 3:10 PM To: 'James MacLeod' <jmacLeod@ntscorp.com.au> Cc: Isobel Brinin <ibrinin@ntscorp.com.au>; Matilda Vaughan <mvaughan@ntscorp.com.au> Subject: RE: NNWW- ACHA for proposed mine development project 17 kms South of Nymagee. DOL 11 June 20 Dear Members, This reply is confirmation that your organisation is now a RAP (Registered Aboriginal Party) for this project. Kind Regards
18.06.2020	1a2	All RAPS	All RAPs were emailed or posted a revised version of the stage 1a2 letter due too the addition of old Nymagee copper mine .	Email and post	From: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Sent: Friday, 19 June 2020 10:35 AM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response	

					From: Ronni O'Donnell <ronni.odonnell@lls.nsw.gov.au> Sent: Tuesday, 26 May 2020 3:24 PM To: Gabrielle Green <gabbi@areaenv.com.au> Cc: Ben Slingsby <ben.slingsby@lls.nsw.gov.au>; Guy Gibbs <guy.gibbs@lls.nsw.gov.au>; Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: Aboriginal Cultural Heritage Assessment Response Dear Gabrielle Thank you for your correspondence Re: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW requesting assistance in identifying Aboriginal groups, stakeholders or traditional knowledge holders interested in the management of Indigenous heritage matters in your project area. Local Land Services Western Region acknowledges that LLS's have been listed in Section 4.1.2 (g) of the Aboriginal Cultural Heritage Consultation Requirements for proponents 2010, under Part 6, National Parks and Wildlife Act 1974 as a source of information to obtain the "names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places". It is recommended by LLS Western that you contact the following Aboriginal Community groups in regard to cultural heritage matters within the project area. • Cobar LALC • Native Title Claimants: Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012.001, Federal Court No NSD38.2019) Please note that LLS Western takes no responsibility for the groups listed as being the only persons or groups who may have a cultural	
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					heritage interest in your project area and further investigation may be necessary within your consultation process. If you have any further questions or queries in regard to this matter please do not hesitate to give me a call. Respectfully Ronni O'Donnell Senior Land Services Officer Aboriginal Communities Western Local Land Services 32 Enterprise Way PO Box 363 Buronga NSW 2739 T: 03 5021 9429 F: 03 5021 1308 Mb: 0409 334 956 E: ronni.odonnell@lls.nsw.gov.au *****	
19.06.2020	1a2	Blackie Gordon	Blackie Gordon emailed to advise he would like to register his interest as an individual RAP for the project	Email	From: Ronni O'Donnell <ronni.odonnell@lls.nsw.gov.au> Sent: Tuesday, 26 May 2020 3:24 PM To: Gabrielle Green <gabbi@areaenv.com.au> Cc: Ben Slingsby <ben.slingsby@lls.nsw.gov.au>; Guy Gibbs <guy.gibbs@lls.nsw.gov.au>; Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: Aboriginal Cultural Heritage Assessment Response Dear Gabrielle Thank you for your correspondence Re: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW requesting assistance in identifying Aboriginal groups, stakeholders or traditional knowledge holders interested in the management of Indigenous heritage matters in your project area. Local Land Services Western Region acknowledges that LLS's have been listed in Section 4.1.2 (g) of the Aboriginal Cultural Heritage Consultation Requirements for proponents 2010, under Part 6, National Parks and Wildlife Act 1974 as a source of information to obtain the "names of Aboriginal people who	From: Gabrielle Green <gabbi@areaenv.com.au> Sent: Tuesday, 23 June 2020 3:01 PM To: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Dear Members, This reply is confirmation that your organisation is now a RAP (Registered Aboriginal Party) for this project. Kind Regards ***** From: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Sent: Wednesday, 24 June 2020 11:42 AM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Dear Gabbi, I'm not involved with the Native Title Claimants: Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012.001, Federal Court No NSD38.2019) I work for Western LLS and sent the same

				may hold cultural knowledge relevant to determining the significance of Aboriginal objects and.or places". It is recommended by LLS Western that you contact the following Aboriginal Community groups in regard to cultural heritage matters within the project area. • Cobar LALC • Native Title Claimants: Ngemba, Ngayampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012.001, Federal Court No NSD38.2019) Please note that LLS Western takes no responsibility for the groups listed as being the only persons or groups who may have a cultural heritage interest in your project area and further investigation may be necessary within your consultation process. If you have any further questions or queries in regard to this matter please do not hesitate to give me a call. Respectfully Ronni O'Donnell Senior Land Services Officer Aboriginal Communities Western Local Land Services 32 Enterprise Way PO Box 363 ***** forwarded by --From: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Sent: Friday, 19 June 2020 10:35 AM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response ***** From: Gabrielle Green <gabbi@areaenv.com.au> Sent: Tuesday, 23 June 2020 3:01 PM To: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Dear Members,	response to you that was sent by Ronni O'Donnell. ***** From: Gabrielle Green <gabbi@areaenv.com.au> Sent: Thursday, 25 June 2020 9:21 AM To: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Hi Blackie, That's no problem, would you like to be registered as a Registered Aboriginal Party separately from LLS? Or would you like me to add your contact details under LLS so I send you a copy of the information regarding the project to both yourself and Ronnie? Kind Regards ***** From: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Sent: Thursday, 25 June 2020 10:01 AM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Dear Gabbi Being registered as a separate Aboriginal Party would be great as this is part of my father's traditional land and where I lived most of my life. ***** From: Gabrielle Green Sent: Thursday, 25 June 2020 12:20 PM To: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Hi Blackie, That's no worries, I will arrange that for you 😊 Kind regards
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					This reply is confirmation that your organisation is now a RAP (Registered Aboriginal Party) for this project. Kind Regards ***** From: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Sent: Wednesday, 24 June 2020 11:42 AM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Dear Gabbi, I'm not involved with the Native Title Claimants: Ngemba, Ngayampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012.001, Federal Court No NSD38.2019) I work for Western LLS and sent the same response to you that was sent by Ronni O'Donnell. ***** From: Gabrielle Green <gabbi@areaenv.com.au> Sent: Thursday, 25 June 2020 9:21 AM To: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Hi Blackie, That's no problem, would you like to be registered as a Registered Aboriginal Party separately from LLS? Or would you like me to add your contact details under LLS so I send you a copy of the information regarding the project to both yourself and Ronnie? Kind Regards ***** From: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Sent: Thursday, 25 June 2020 10:01 AM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response	
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					Dear Gabbi Being registered as a separate Aboriginal Party would be great as this is part of my father's traditional land and where I lived most of my life. ***** From: Gabrielle Green Sent: Thursday, 25 June 2020 12:20 PM To: Blackie Gordon <blackie.gordon@lls.nsw.gov.au> Subject: RE: Aboriginal Cultural Heritage Assessment Response Hi Blackie, That's no worries, I will arrange that for you ☺ Kind regards	
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25.06.2020	1a2	name withheld in this version of report	called to register expression of interest for the project	Phone	called to ask if there was anything further needed to do to register expression of interest as a RAP for the project. advised that was also registering for the members in the community is connected to. enquired on the ACHCRs process for the project. I (Gabbi) forwarded the ACHCRs document and the flow chat created by AREA as a summary of our interpretation of the process to allow easier understanding. Sent: Thursday, 25 June 2020 9:58 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: Re: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, and a second proposed development site 1 km West of Nymagee, NSW. Dear Gabrielle Thank you very much for your prompt response including this helpful information. Perhaps you could also forward the AHIMS maps you mentioned if you have a copy. Much appreciation and lovely to speak with you also. Kind Regards ***** From: Gabrielle Green Sent: Friday, 26 June 2020 9:16 AM To: Subject: RE: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, and a second proposed development site 1 km West of Nymagee, NSW. Good morning That's no worries, your welcome. Regarding the AHIMS maps, copies of them have been provided in the updated letter you received which we were discussing yesterday 😊. Kind Regards
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24.06.2020	1a2	Peter Harris	Peter called regarding the revised stage 1a2 letter	Phone	Peter called to advise he would like to be a RAP for both sites in the project	
13.03.2020	1a2			Email		
	stage 2	All RAPS	Sent letter of methodology to all RAPS registered for the project	Email		
Stage 2.3						
	2a	All RAPS	Contacted all RAPS who will be involved in the cultural Heritage Field Survey to confirm who will be attending or not attending	Email		
11.06.2019	2a	Hilary Williams	Hilary Emailed with her site induction form	Email		
11.06.2020	2a	Hilary Williams	Hilary emailed her life insurance	Email	workers comp insurance was requested however Hilary does not meet the criteria to requiring worker comp insurance .	
11.06.2020	2a	Peter Harris	emailed regarding specific of fieldwork	Email	From: Phil Cameron <phil@areaenv.com.au> Sent: Thursday, 11 June 2020 12:32 PM To: bizzoharris@hotmail.com Cc: Gabrielle Green <gabbi@areaenv.com.au> Subject: Federation cultural heritage assessment near Nymagee Saturday to Monday next week. Hi Peter, Thanks for the chat this morning and thanks for passing this message on to Barry and Hilary. This email confirms what we discussed. I will number the points below to make it easy to reference (sorry it's a bit abrupt but it probably is the best way to make sure we are on the same page): 1. The survey is Saturday to Monday next week. We will meet at Hera Gold Mine accommodation camp 10 to 1030 Saturday and I will bring you guys to the Federation Site. 2. Bring your own lunch Saturday but food and accommodation is provided Saturday and Sunday night with Monday being the last day of	Peter also sent through his completed induction forms, COVID-19 form and accommodation form today

					work. 3. Insurances – can you please send me a copy of your workers compensation certificate of currency? I will need this to be able to pay you (either me or the mine will pay you – we are working that out at the minute). 4. Can you bill for Barry and Hillary as you have workers compensation insurance and they don't. It's not legal to pay people who don't have workers compensation insurance so this is a must have item. 5. Payment is \$880 per person per day all inclusive. This simply means this amount covers all your costs and are rolled into the one amount for this job. Food and accommodation except lunch on Saturday has been paid for by the mine. Your team is responsible for getting there and home etc. 6. Inductions – You would have received a link in an email Gabbi sent for an Aurelia Induction for the Hera Gold Mine. Click on the link and follow the instructions. Each of you will need to do it. No one can set foot on the mine without having the Inductions completed before they arrive. Our guys who need it did it yesterday so if your team can do it today that would be good. It takes about half an hour. If you cant find the link let Gabbi know and she will re issue it. 7. COVID-19 forms. Fill it out and send it back. Print out an extra copy as we all need to do it again when we arrive. 8. We will all undergo a drug test when we get on site. This is a normal mine requirement. If anyone is taking prescription medication bring the script to show the person doing the test. 9. The work will involve walking all day on flat ground and looking for artefacts. There no toilets on site. We will bring water and first aid . emergency equipment with us. Each day will be about eight hours and we will have breaks . lunch etc in this time. Its easy terrain to walk on. This is pretty much the important bits - my phone number is below so see you on Saturday (we leave tomorrow). Regards	
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					Phil ***** Its supposed to be raining on Saturday so bring a raincoat. Cheers Phil	
11.06.2020	2a	Peter Harris	communicating regarding	Email		
		All RAPs				
		Client	Email to update on the project	email		
Stage 3						
10.06.2020	Three	Cobar LALC	Contacted Cobar LALC regarding sites officers for the project.	Phone	Contacted Cobar LALC regarding sites officers for the project. Unfortunately no one was able to participate due to unforeseen circumstances, as a result of this all three positions were allocated to Registered Native Title Applicants.	
10.06.2020	Three	Elaine Olsen	Forwarded site information regarding the survey	Email	From: Gabrielle Green Sent: Wednesday, 10 June 2020 11:35 AM To: elaineohlsen49@gmail.com Subject: Federation Heritage survey Hi Elaine, As per your phone conversation with Phil please see the attached document we need to have filled out for the Federation survey. Rena at the Cobar LALC may have a copy for you to fill out but if not here are additional copies, if you need a hand give her a call and she can send yours in with Tyrone's forms. Can you please send the completed forms back today as soon as you can? Kind Regards	
18.06.2020	Three	Hilary Williams	Hilary sent a copy of her invoice for the RAP from the field survey	Email	From: Hilary Williams <hilareemavis@icloud.com> Sent: Thursday, 18 June 2020 12:41 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: Re: Invoice template Hi Gabi Can you please let me know if it came through?	From: Hilary Williams <hilareemavis@icloud.com> Sent: Thursday, 18 June 2020 3:44 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: Re: Invoice template Ok no worries 😊

					I've filled everything out except for the name of business. Kind Regards Hilary Williams ***** Okay :) Thank you. On June 17, 2020 at 7:45 PM, Gabrielle Green <gabbi@areaenv.com.au> wrote: I will confirm with phil and let you know should be by the end of the week 😊 Gabrielle Green Cadet Consultant and Environmental Administrator AREA Environmental Consultants & Communication (ABN: 29 616 529 867) a: 6 Belmore Street, Dubbo, NSW, 2830 a2: 72 Brisbane Street, Dubbo, NSW, 2830 e: gabbi@areaenv.com.au w: www.areaenvironmental.com.au m:0439 340 940 We acknowledge Traditional Owners and Custodians and their ancestors. From: Hilary Williams <hilareemavis@icloud.com> Sent: Thursday, 18 June 2020 12:45 PM To: Gabrielle Green <gabbi@areaenv.com.au> Subject: Re: Invoice template Thanks Do you have a possible idea when it would be paid? Hilary On June 17, 2020 at 7:42 PM, Gabrielle Green <gabbi@areaenv.com.au> wrote: Hi Hilary, All good just got it, looks good! I will pop it on my list to process Kind Regards 😊	Sent from my iPhone On 18 Jun 2020, at 3:16 pm, Gabrielle Green <gabbi@areaenv.com.au> wrote: Hi Hilary, I should be able to sort this out today for you. In relation to your workers comp insurance you didn't need it for this job but before you do any other survey work like this one where you are out on your own you will need workers comp insurance because you will now meet the earnings threshold. This also means you will need to pay GST on any other work you do also. So next time you would charge \$800 and a further \$80 which is 10% for GST. The GST is collected by the government (when you pay it). If you are going to be doing more work and you need to set up workers comp through icare Phil said to allow for \$20k earning per year when it asks you that question. I hope I have explained that clearly, if not please feel free to ask me anything 😊 <image001.jpg> Gabrielle Green Cadet Consultant and Environmental Administrator AREA Environmental Consultants & Communication (ABN: 29 616 529 867) a: 6 Belmore Street, Dubbo, NSW, 2830 a2: 72 Brisbane Street, Dubbo, NSW, 2830 e: gabbi@areaenv.com.au w: www.areaenvironmental.com.au m:0439 340 940 We acknowledge Traditional Owners and Custodians and their ancestors.
06.07.2020	2.03.2020	Cobar LALC	NH sent methodology and request for information.	Email		
06.07.2020	2.03.2020	Elaine Olsen	NH sent methodology and request for information.	Email	Ms Ohlsen acknowledged the email	

06.07.2020	2.03.2020	Hilary Williams	NH sent methodology and request for information.	Email	provided correct email address for Barry (updated in contacts)	
06.07.2020	2.03.2020	Barry Williams	NH sent methodology and request for information.	Email	Email bounced - included request for correct email from Hilary; resent on 08.07.20	
06.07.2020	2.03.2020	Peter Harris	NH sent methodology and request for information.	Email		
06.07.2020	2.03.2020	name withheld in this version of report	NH sent methodology and request for information.	Email		
06.07.2020	2.03.2020	Mark Saddler	NH sent methodology and request for information.	Email	Email	
04.08.2020	Three	Cobar LALC	GG email RAPs to follow up on methodology letter	Email		as of 12.08.2020 - No responses have been received regarding the methodology letter
04.08.2020	Three	Elaine Olsen	GG email RAPs to follow up on methodology letter	Email		as of 12.08.2020 - No responses have been received regarding the methodology letter
04.08.2020	Three	Hilary Williams	GG email RAPs to follow up on methodology letter	Email		as of 12.08.2020 - No responses have been received regarding the methodology letter
04.08.2020	Three	Barry Williams	GG email RAPs to follow up on methodology letter	Email		as of 12.08.2020 - No responses have been received regarding the methodology letter
04.08.2020	Three	Peter Harris	GG email RAPs to follow up on methodology letter	Email		as of 12.08.2020 - No responses have been received regarding the methodology letter
04.08.2020	Three	name withheld in this version of report	GG email RAPs to follow up on methodology letter	Email		as of 12.08.2020 - No responses have been received regarding the methodology letter
04.08.2020	Three	Mark Saddler	GG email RAPs to follow up on methodology letter	Email		as of 12.08.2020 - No responses have been received regarding the methodology letter
04.08.2020	Three	Blackie Gordon	GG email RAPs methodology letter -they	Email	Please find attached the Aboriginal Heritage methodology for Federation mine, Cobar LGA. Your feedback on the methods used and any	as of 2.09.2020 - No responses have been received regarding the methodology letter

			were missed on the 6 July 2020		further cultural knowledge that may help would be appreciated. Please direct any feedback to Nick or myself before the closing date. The Closing date for responses will be Tuesday 1 September 2020. Kind Regards,	
04.08.2020	Three	NTS Corp	GG email RAPs methodology letter -they were missed on the 6 July 2021	Email	Please find attached the Aboriginal Heritage methodology for Federation mine, Cobar LGA. Your feedback on the methods used and any further cultural knowledge that may help would be appreciated. Please direct any feedback to Nick or myself before the closing date. The Closing date for responses will be Tuesday 1 September 2020. Kind Regards,	as of 2.09.2020 - No responses have been received regarding the methodology letter
Stage 4						
29.07.2020	1b		Sent confirmed list of RAPs to DPEI and LALC	Email	To whom it may concern, I am writing to you to fulfil stage 1b of the Aboriginal cultural heritage consultation requirements for proponents 2010. This stage of the process involves notifying the government organisations, of the completed list of RAPs for the project. See below a list of the Registered Aboriginal Parties RE: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, and a second proposed development site 1 km West of Nymagee, NSW. The Aboriginal parties who have expressed their interest to become RAPs for the project are as follows: - - Peter Harris - Barry Williams - Hilary Williams - Nts Corp – (James MacLeod Senior Solicitor) - Mark Saddler (Cultural Awareness, School & Tour Programs, Bundy Cultural Tours, Cultural Awareness,	30.07.2020 DPIE replied via email and advised that they had forwarded it to the correct area

					- LLS - Ronnie O'Donnell - LLS - Blackie Gordon - [REDACTED] name withheld in this version of the report - Cobar LALC - Elaine Olsen If you have any questions or concerns feel free to contact me. Kind Regards	
24.09.20	three	Cobar LALC	AD sent updated methodology to RAPS and invited Native Title and LALC to participate in field work	Email		
24.09.20	three	Hilary Williams	AD sent updated methodology to RAPS and invited Native Title and LALC to participate in field work	Email		
24.09.20	three	Elaine Olsen	AD sent updated methodology to RAPS 'Aurelia Metals Projects'	Email		
24.09.20	three		AD sent updated methodology to RAPS 'Aurelia Metals Projects'	Email		
24.09.20	three	Barry Williams	AD sent updated methodology to RAPS 'Aurelia Metals Projects'	Email		
24.09.20	three	Peter Harris	AD sent updated methodology to RAPS 'Aurelia Metals Projects'	Email		
24.09.20	three	[REDACTED] name withheld in this version of report	AD sent updated methodology to RAPS 'Aurelia Metals Projects'	Email		
24.09.20	three	Mark Saddler	AD sent updated methodology to RAPS 'Aurelia Metals Projects'	Email		

24.09.20	three	Cobar LALC	AD sent updated methodology to RAPS 'Aurelia Metals Projects'	Email		
24.09.20	three	Blackie Gordon	AD sent updated methodology to RAPS 'Aurelia Metals Projects'	Email		
24.09.20	three	NTS Corp	AD sent updated methodology to RAPS 'Aurelia Metals Projects'	Email		
25.09.20	Three	Mark Saddler	Mark response to the methodology asking some questions	email	AD replied to email answering his questions	
29.09.20	three	Hilary Williams	AD called to see if the email was received, introduce herself to Hilary, and if she had any questions	Phone	Received the email, no questions	
29.09.20	Three	Cobar LALC	AD called to see if the email was received, introduce herself, and if Rena had any questions	Phone	Rena wasn't available was advised to call back Monday	
6.10.20	Fieldwork	Cobar LALC	AD called Rena to confirm site officer for fieldwork	Phone	Rena was going to look over email, talk to local community and get back to me	
6.10.20	Fieldwork	Hilary Williams	AD called to confirm site officer for fieldwork	Phone	Left voicemail	
8.10.2020	Fieldwork	Cobar LALC	AD emailed Rena looking for confirmation that Cobar LALC is able to supply a site officer, gave a deadline of Wednesday 14 October. Also reminded them of the drug test and induction also works may be longer than the 3 days	email		
8.10.2020	Fieldwork	Hilary Williams	AD emailed Hilary looking for confirmation that native title is able to	Email	Hilary said she was unable to attend the field work and recommended Peter Harris or Barry Williams	

			supply a site officer, gave a deadline of Wednesday 14 October. Also reminded them of the drug test and induction. Mentioned works may be longer than the 3 days			
9.10.2020	Fieldwork	Peter Harris	AD Called Peter to see if he is available for fieldwork	Phone	He is available and keen to attend. He also raised concerns that the LALC was invited as he believes as the Native Title is from country they should be the sole site officers	
9.10.2020	Fieldwork	Peter Harris	AD emailed Peter the details of the fieldwork	Email		
12.10.2020	Fieldwork	Peter Harris	AD forwarded Peter Aurelia's COVID safety form	email		
12.10.2020	Fieldwork	Peter Harris	PH called AD	phone	Wanted to know if Cobar LALC council had got anyone if not he had Barry or another young guy lined up, he also couldn't print the COVID form	
13.10.2020	Fieldwork	Cobar LALC	AD called Cobar LALC	phone	Called and left a message at front desk for Rena in regards to confirming a site officer for fieldwork by COB tomorrow.	
14.10.2020	Fieldwork	Cobar LALC	AD emailed Cobar LALC	email	emailed Rena to follow up confirmation of site officer for the fieldwork. Ask to confirm a member by COB today otherwise the spot will be offered to Native title.	
15.10.2020	Fieldwork	Cobar LALC	Rena emailed AD confirming site officer	email	AD rang Rena back to confirm a Shantell Ohlsen will be the site officer. She has already been inducted as she works as a cleaner at Hera	
16.10.20	Fieldwork	Peter Harris	Rang AD	phone	Peter rang Anna, he has had a family emergency pop up and cannot do the fieldwork but has organised a Joshua Clarke to fill in for him	
16.10.20	Fieldwork	Joshua Clarke	AD rang Joshua Clarke	phone	Left voicemail and he called back and got the details of the fieldwork	
16.10.20	Fieldwork	Joshua Clarke	AD emailed Joshua Clarke	email	sent fieldwork, induction and COVID-19 information	
30.10.20		Condobolin LALC	Condo LALC were insolvent . revoked since Nov 2019		Lima (Aurelia) received information that the Condo LALC were insolvent since 2017 but were reinstated in Oct 2020	

19.10.20	Fieldwork	Shantell Ohlsen	AD rang Shantell to talk about fieldwork	phone	Introduced herself made sure Shantell was UpToDate on the project	
2.11.20	Fieldwork	Peter Harris	AD rang Peter to update him of fieldwork results	phone		
2.11.20	Fieldwork	Rena	AD rang Rena to update her of the fieldwork results	phone	Rena mentioned that the scar tree with 3 scar could possible be a marker tree for the tribal boundaries, wants to do an AFG	
4.11.2020	Fieldwork	Cobar LALC	sent fieldwork results	email		
4.11.2020	Fieldwork	Hilary Williams	sent fieldwork results	email		
4.11.2020	Fieldwork	Elaine Olsen	sent fieldwork results	email		
4.11.2020	Fieldwork		sent fieldwork results	email		
4.11.2020	Fieldwork	Barry Williams	sent fieldwork results	email		
4.11.2020	Fieldwork	Peter Harris	sent fieldwork results	email		
4.11.2020	Fieldwork	name withheld in this version of report	sent fieldwork results	email		
4.11.2020	Fieldwork	Mark Saddler	sent fieldwork results	email		
4.11.2020	Fieldwork	Cobar LALC	sent fieldwork results	email		
4.11.2020	Fieldwork	Blackie Gordon	sent fieldwork results	email		
4.11.2020	Fieldwork	NTS Corp	sent fieldwork results	email		
4.11.2020	Fieldwork	Shantell Ohlsen	sent fieldwork results	email		
4.11.2020	Fieldwork	Joshua Clarke	sent fieldwork results	email	Wanted to be referred to as Ngiyampaa Traditional Owner	
4.11.2020	Fieldwork	Anna Darby	confirm title	phone	called to confirm wording within the fieldwork results email "Ngiyampaa Traditional Owner on behalf of the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants"	

4.11.2020	Fieldwork	Cobar LALC	reissued fieldwork results email	email		
4.11.2020	Fieldwork	Hilary Williams	reissued fieldwork results email	email		
4.11.2020	Fieldwork	Elaine Olsen	reissued fieldwork results email	email		
4.11.2020	Fieldwork		reissued fieldwork results email	email		
4.11.2020	Fieldwork	Barry Williams	reissued fieldwork results email	email		
4.11.2020	Fieldwork	Peter Harris	reissued fieldwork results email	email		
4.11.2020	Fieldwork	name withheld in this version of report	reissued fieldwork results email	email		
4.11.2020	Fieldwork	Mark Saddler	reissued fieldwork results email	email		
4.11.2020	Fieldwork	Cobar LALC	reissued fieldwork results email	email		
4.11.2020	Fieldwork	Blackie Gordon	reissued fieldwork results email	email		
4.11.2020	Fieldwork	NTS Corp	reissued fieldwork results email	email		
4.11.2020	Fieldwork	Shantell Ohlsen	reissued fieldwork results email	email		
4.11.2020	Fieldwork	Joshua Clarke	reissued fieldwork results email	email	Thanked AD for changing the title	
4.11.2020	Fieldwork	Mark Saddler	reissued fieldwork results email	email	wanted to know if another email will be sent, AD pointed out that the attached pdf was the most up to date version	
5.11.2020		Tim Gumbleton - RSM (Administrator)	Details on Condo LALC	phone	Rang to get some information in regards to the condo LALC	

11.11.2020	4	Cobar LALC	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	Hilary Williams	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	Elaine Olsen	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	Barry Williams	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	Peter Harris	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	name withheld in this version of report	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	Mark Saddler	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	Cobar LALC	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	LLS	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email	Ronni O'Donnell's email blocked AREA email; Mr Gordon replied saying no further consultation with LLS is required.	
11.11.2020	4	NTS Corp	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email	NTSCORP explained they are not a RAP and that we should consult with the NT claimants in person.	

11.11.2020	4	Shantell Ohlsen	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	Joshua Clarke	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
11.11.2020	4	Mark Saddler	Sent V3.0 of Mod 6 heritage assessment with request to review as soon as possible.	email		
29.3.2021	Unrelated	Peter Harris	Forwarded general public information meeting information on behalf of Element	email		
29.3.2021	Unrelated	Barry Williams	Forwarded general public information meeting information on behalf of Element	email		
29.3.2021	Unrelated	Hilary Williams	Forwarded general public information meeting information on behalf of Element	email		
29.3.2021	Unrelated	name withheld in this version of report	Forwarded general public information meeting information on behalf of Element	email		
29.3.2021	Unrelated	Cobar LALC - Rena	Forwarded general public information meeting information on behalf of Element	email		
29.3.2021	Unrelated	Elaine Olsen	Forwarded general public information meeting information on behalf of Element	email	Ms Ohlsen thanked NH for the message.	
28.04.2021	unrelated	Condobolin LALC	general admin	email	Craig Cromelin finishing at C LALC. Contacts are now Tim Gumbleton, Lousie Davis and Isabel Goolagong	

31.01.2021	6 month update	Cobar LALC	6 month update to keep consultation current	email		
31.01.2021	6 month update	Elaine Olsen	6 month update to keep consultation current	email	Ms Ohlsen thanked AD for the update	
31.01.2021	6 month update	Barry Williams	6 month update to keep consultation current	email		
31.01.2021	6 month update	Peter Harris	6 month update to keep consultation current	email		
31.01.2021	6 month update	██████████ name withheld in this version of report	6 month update to keep consultation current	email		
31.01.2021	6 month update	Mark Saddler	6 month update to keep consultation current	email		
31.01.2021	6 month update	Cobar LALC	6 month update to keep consultation current	email		
31.01.2021	6 month update	Shantell Ohlsen	6 month update to keep consultation current	email		
31.01.2021	6 month update	Joshua Clarke	6 month update to keep consultation current	email	Mr Clarke thanked AD for the update	
31.01.2021	6 month update	Condobolin LALC	6 month update to keep consultation current	email	included Condo LALC into the mail list (recipients included Tim Gumbleton, Lousie Davis and Isabel Goolagong)	
4.06.2021	EIS supplementary survey	Elaine Olsen	Federation EIS supplementary survey fieldwork invitation	email		
4.06.2021	EIS supplementary survey	Cobar LALC	Federation EIS supplementary survey fieldwork invitation	email		
4.06.2021	EIS supplementary survey	Condobolin LALC	Federation EIS supplementary survey fieldwork invitation	email		
7.06.2021	EIS supplementary	Elaine Olsen	Federation EIS supplementary survey	email		

	ntary survey		fieldwork update on accommodation			
7.06.2021	EIS supplementary survey	Cobar LALC	Federation EIS supplementary survey fieldwork update on accommodation	email		
7.06.2021	EIS supplementary survey	Condobolin LALC	Federation EIS supplementary survey fieldwork update on accommodation	email		
11.06.2021	EIS supplementary survey	Hilary Williams	Federation EIS supplementary survey fieldwork update on accommodation	phone	called to see if Hilary got my email and has people available, she is going to get back to AD	
16.06.2021	EIS supplementary survey	Cobar LALC	Federation EIS supplementary survey fieldwork update on accommodation	phone	Amy asked if AREA could contact Shantell on Cobar LALC's behalf to engage her for fieldwork	
16.06.2021	EIS supplementary survey	Shantell Ohlsen	Federation EIS supplementary survey fieldwork update on accommodation	phone	AD called, left a voicemail and texted to invite Shantel to fieldwork	
16.06.2021	EIS supplementary survey	Condobolin LALC	Federation EIS supplementary survey fieldwork update on accommodation	phone	AD called 6895 3726 (number on the NSW ALC website) it has been connected	
17.06.2021	EIS supplementary survey	Cobar LALC	Federation EIS supplementary survey fieldwork update on accommodation	email	sent update on communication with Shantell, they asked if there was anyone else AD knew could attend. AD sent them Joshua Clarke's number	
17.06.2021	EIS supplementary survey	Hilary Williams	Federation EIS supplementary survey fieldwork update on accommodation	Phone	AD called Hillary for confirmation on a site officer, Hillary asked if AREA could contact Barry Williams or Peter Harris to partake in fieldwork	
17.06.2021	EIS supplementary survey	Barry Williams	Federation EIS supplementary survey fieldwork update on accommodation	Phone	AD range and left voicemail about participating in the survey	
18.06.2021	EIS supplementary survey	Peter Harris	Federation EIS supplementary survey	Phone	AD called to invite Peter on fieldwork, followed up with an email with all the details.	

	ntary survey		fieldwork update on accommodation			
24.06.2021	EIS supplementary survey	Cobar LALC	Federation EIS supplementary survey fieldwork update on accommodation	email	Amy let AREA know that Cobar LALC was too busy during the week of the survey and have passed on their spot.	
24.06.2021	EIS supplementary survey	Hilary Williams, Barry Williams and Peter Harris	Federation EIS supplementary survey fieldwork update on accommodation	email	AD informed them that Cobar LALC can not attend the survey and asked them to supply 2 site officers	
24.06.2021	EIS supplementary survey	Peter Harris	Federation EIS supplementary survey fieldwork update on accommodation	phone	called to talk about survey and he can supply a third site officer if Condobolin cannot supply one. Gave AD Isabel Goolagong's phone number	
28.06.2021	EIS supplementary survey	Isabel Goolagong, Condobolin LALC	Federation EIS supplementary survey fieldwork update on accommodation	phone	AD contacted Isabel. Condobolin LALC have a meeting tonight and will discuss at meeting	
28.06.2021	EIS supplementary survey	Isabel Goolagong, Condobolin LALC	Federation EIS supplementary survey fieldwork update on accommodation	email	AD sent email with information RE fieldwork	
28.06.2021	EIS supplementary survey	Peter Harris	Federation EIS supplementary survey fieldwork update on accommodation	phone	called AD to ask for an update on Condo attending. Reminded him to book his own accommodation at Four Corners	
29.06.2021	EIS supplementary survey	Tim Gumbleton - RSM (Administrator)	6 month update to keep consultation current	email	Lousie had been appointed CEO of LALC, communication to go through her and Tim	
1.07.2021	EIS supplementary survey	Lousie Davis, Condobolin LALC	Federation EIS supplementary survey fieldwork update on accommodation	phone	Wanting to know more information on the survey will try and get a site officer for the survey	
1.07.2021	EIS supplementary survey	Lousie Davis, Condobolin LALC	Federation EIS supplementary survey fieldwork update on accommodation	email	Gave fieldwork rate of \$1900 (GST inclusive) for 2 days. AD sent follow up email with more fieldwork information and asking for name and email of site officer to arrange induction	

5.07.2021	EIS supplementary survey	Peter Harris	Federation EIS supplementary survey fieldwork update on accommodation	Phone	AD called to confirm Peter and Barry's attendance for the fieldwork and to let them know an extra day has been added to the survey	
6.07.2021	EIS supplementary survey	Peter Harris	Federation EIS supplementary survey fieldwork update on accommodation	email	follow up email summarising what was discussed over the phone.	
6.07.2021	EIS supplementary survey	Lousie Davis, Condobolin LALC	Federation EIS supplementary survey fieldwork update on accommodation	email	AD asking again for site officer details and letting them known the survey has been extended a day, Louise responded with Braydn Davis to be the site officer	
7.07.2021	EIS supplementary survey	Braydn Davis, Condobolin LALC	Federation EIS supplementary survey fieldwork update on accommodation	email	AD sent email with information RE fieldwork	
8.07.2021	EIS supplementary survey	Braydn Davis, Condobolin LALC	Federation EIS supplementary survey fieldwork update on accommodation	email	AD sent secondary email with COVID response information	
9.07.2021	EIS supplementary survey	Peter Harris	Called to confirm that he and Barry are all set for next week, and to remind him to bring hard hat, steel caps and high vis to site	Phone	Said he didn't have a hard hat or steel caps.	
	EIS supplementary survey	Braydn Davis, Condobolin LALC	AD called to confirm he had received the emails and if he had any questions	Phone	No questions he is all good for the survey	
4.08.2021	AFGM invitation	Peter Harris	Invitation to attend the AFGM	email	thank you for the email he will be attending	
4.08.2021	AFGM invitation	Barry Williams	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	Hilary Williams	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	Mark Saddler	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	██████	Invitation to attend the AFGM	email		

		name withheld in this version of report				
4.08.2021	AFGM invitation	Shantelle Ohlsen	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	Rena Clements	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	Elaine Ohlsen	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	Joshua Clarke	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	Isabel Goolagong	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	Louise Davis	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	Tim Gumbleton	Invitation to attend the AFGM	email		
4.08.2021	AFGM invitation	Braydn Davis	Invitation to attend the AFGM	email		
20.08.2021	AFGM invitation	Peter Harris	AFGM has been moved to online due to COVID	email		
20.08.2021	AFGM invitation	Barry Williams	AFGM has been moved to online due to COVID	email		
20.08.2021	AFGM invitation	Hilary Williams	AFGM has been moved to online due to COVID	email		
20.08.2021	AFGM invitation	Mark Saddler	AFGM has been moved to online due to COVID	email	Called and emailed to RSVP to meeting	
20.08.2021	AFGM invitation	name withheld in this version of report	AFGM has been moved to online due to COVID	email		
20.08.2021	AFGM invitation	Shantelle Ohlsen	AFGM has been moved to online due to COVID	email		
20.08.2021	AFGM invitation	Rena Clements	AFGM has been moved to online due to COVID	email		

20.08.2021	AFGM invitation	Elaine Ohlsen	AFGM has been moved to online due to COVID	email	thank you for the update	
20.08.2021	AFGM invitation	Joshua Clarke	AFGM has been moved to online due to COVID	email	Thanked AD for the update and will be attending	
20.08.2021	AFGM invitation	Isabel Goolagong	AFGM has been moved to online due to COVID	email		
20.08.2021	AFGM invitation	Louise Davis	AFGM has been moved to online due to COVID	email		
20.08.2021	AFGM invitation	Tim Gumbleton	AFGM has been moved to online due to COVID	email	RSVPed for himself and Louise to attend the meeting	
20.08.2021	AFGM invitation	Braydn Davis	AFGM has been moved to online due to COVID	email		
30.08.2021	AFGM invitation	Cobar LALC	Called to remind Amy of the meeting	phone	Amy is the only staff member at Cobar LALC atm and will see if see has time on Thursday	
30.08.2021	AFGM invitation	Shantelle Ohlsen	Called to remind her of the upcoming AFGM	phone	left voice ma	
30.08.2021	AFGM invitation	Braydn Davis	Called to remind him of the upcoming AFGM	Phone	RSVPed yes	
2.09.2021	AFGM invitation	name withheld in this version of report	asked for survey findings, sites and management plans and wasn't sure if they could attend the meeting	email	AD replied to email with the original invitation letter that had the survey finding and management plans attached	
14.09.2021	Communications Tower re-survey	Louise Davis	invitation for fieldwork	phone and email	phone call and follow up email	
14.09.2021	Communications Tower re-survey	Peter Harris	invitation for fieldwork	phone and email	phone call and follow up email	
15.09.2021	Communications Tower re-survey	Louise Davis	Further fieldwork details	email		
15.09.2021	Communications	Peter Harris	Further fieldwork details	email		

	Tower re-survey					
16.09.2021	Communications Tower re-survey	Louise Davis	Expending the fieldwork to Monday 20 September and Tuesday 21 September	email	confirmation received	
16.09.2021	Communications Tower re-survey	Peter Harris	Expending the fieldwork to Monday 20 September and Tuesday 21 September	email	confirmation received	
19.09.2021	Communications Tower re-survey	Braydn Davis	Hera COVID screening QR code wasn't working	phone	AD to print of paper COVID pre-screening forms for everyone to fill out on site	
19.09.2021	Communications Tower re-survey	Peter Harris	Hera COVID screening QR code wasn't working	phone	AD to print of paper COVID pre-screening forms for everyone to fill out on site	
20.09.2021	Communications Tower re-survey	Louise Davis	Braydn had a bad reaction to the COVID vaccine and too sick to attend the survey	phone		
14.10.2021	Site card request	Mark Saddler	Site cards that have been register on AHIMS sent to Mark	email	Site cards had to be split into 2 emails, second email wasn't received. Second folder sent with ACHAR	
15.10.2021	Stage 4.4.3	Peter Harris	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Barry Williams	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Hilary Williams	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Mark Saddler	28 day RAP review of ACHAR and second folder of site cards	email		
15.10.2021	Stage 4.4.3	name withheld in this version of report	28 day RAP review of ACHAR and advised that her details were withheld from the report	email		

15.10.2021	Stage 4.4.3	Shantelle Ohlsen	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Rena Clements	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Elaine Ohlsen	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Joshua Clarke	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Isabel Goolagong	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Louise Davis	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Tim Gumbleton	28 day RAP review of ACHAR	email		
15.10.2021	Stage 4.4.3	Braydn Davis	28 day RAP review of ACHAR	email		
3.11.2021	Stage 4.4.3	Peter Harris	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Barry Williams	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Hilary Williams	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Mark Saddler	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	name withheld in this version of report	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Shantelle Ohlsen	reminder of the RAP review and attached AFGM minutes	email		

3.11.2021	Stage 4.4.3	Rena Clements	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Elaine Ohlsen	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Joshua Clarke	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Isabel Goolagong	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Louise Davis	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Tim Gumbleton	reminder of the RAP review and attached AFGM minutes	email		
3.11.2021	Stage 4.4.3	Braydn Davis	reminder of the RAP review and attached AFGM minutes	email		

Expression of Interest Cultural Heritage Management

AREA Environmental Consultants & Communication (AREA) is seeking expressions of interest from Aboriginal groups or individuals holding cultural knowledge of the Nymagee area, along Burthong Road in Cobar LGA, who wish to be consulted over a proposed mine development project.

AREA has been commissioned by Aurelia Metals Ltd to facilitate an Aboriginal cultural heritage assessment for the proposal.

The proposed development site is located approximately 17km south of Nymagee. An AHIMS data base search has identified no Aboriginal objects or places within the proposed site. The study area falls within the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012/001, Federal Court No NSD38/2019).

Stakeholders are asked to register their interest for consultation over the proposed project by contacting AREA:

Email: gabbi@areaenv.com.au
Post: 6 Belmore Street, Dubbo, 2830
or Phone: 0439 340 940

The closing date for all
submissions will be
5pm June 10, 2020

example of stage 1a agency letter

ABN:29 616 529 867

Advanced Regional Environmental Assessments (AREA)

- ✓ Environmental impact assessment, approvals and auditing
- ✓ Preliminary environmental assessment (PEA)
- ✓ Review of environmental factors (REF)
- ✓ Peer review
- ✓ Community engagement
- ✓ Biobanking and biodiversity offsetting assessments
- ✓ Aboriginal heritage assessments and community walkovers
- ✓ Landscape design and architecture



22 May 2020

Dear Regulator, LALC, Members, Sir or Madam,

Re: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, NSW.

AREA Environmental Consultants & Communication (AREA) have been commissioned by Hera Resources Pty Ltd to facilitate an Aboriginal cultural heritage assessment for the proposal Figure 1-1.

The proposed development site is located approximately 17km south of Nymagee. An AHIMS data base search has identified no Aboriginal objects or places within the proposed site. The study area falls within the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012/001, Federal Court No NSD38/2019).

This correspondence seeks to contact relevant Aboriginal parties from you or your organisation for consultation on the project. The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an application for an Aboriginal Heritage Impact Permit and to assist the Director General of NSW Department of Planning Industry and Environment in his or her consideration and determination of the application. **The closing date for Stage 1 (expressions of interest) from your organisation is 5 pm Wednesday 10 June 2020.**

The assessments will follow NSW environmental assessment legislation for developments assessed under Part 4.1 of the EP&A Act. The Aboriginal heritage assessment will incorporate the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010) and *Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b).

If your organisation can provide contact details for Aboriginal people who hold knowledge relevant to determining the cultural significance of Aboriginal object(s) and/or place(s) in the area of the proposal, we would be grateful. AREA will use these contact details to provide an opportunity for relevant Aboriginal people to register an interest in a process of community consultation for the proposal. If you or your organisation wish to reregister and interest, please do so by responding to this letter. All individuals or groups who register, will form part of the formal consultation process for the project as Registered Aboriginal Parties (RAPs).

Registering interest in the proposal does not trigger an offer of employment in the proposal's cultural heritage assessment.

Please note we must notify the Department of Planning Industry and Environment and the

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AREA Environmental Consultants & Communication

(a) 6 Belmore Street Dubbo NSW 2830

(b) "The Old Macquarie Brewery" c.1876, 72 Brisbane Street Dubbo NSW 2830

Ph 0409 852 098

phil@areaenv.com.au

Local Aboriginal Land Council of the RAPs. As part of this process we are required to notify your details to DPIE & LALC unless you expressly state you do not want your details released to the LALC (there are no exceptions for DPIE).

The proponent's representative is Jonathon Thompson (Jonathon.Thompson@aureliametals.com.au) but all correspondence need to be addressed to Gabrielle Green (gabbi@areaenv.com.au) at AREA.



Gabrielle Green
Environmental Administrator
gabbi@areaenv.com.au

Table 1 Regional context of the study area

Criteria	Value
Central coordinates (GDA94 z55)	434037 / 6436944
Interim Biogeographic Regionalisation for Australia (IBRA Region)	Cobar Peneplain, Nymagee subregion
State	New South Wales
Topographical map sheet	Nymagee 8133
Local Government Area	Cobar LGA
Local Aboriginal Land Council area (LALC)	Cobar LALC
Schedule of Native Title Determination Applications relevant to the study area (Claims, ILUA Future Acts etc.)	The study area falls within the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012/001, Federal Court No NSD38/2019)
AHIMS study area search results	No previously recorded Aboriginal sites on the AHIMS database plot within the study area or within a 10km radius.
Nearest town / locality	Nymagee. Approximately 17 km north
Accessed from nearest town by	Burthong Road
Land use / disturbance	Grazing agriculture.
Nearest waterway (Name, Strahler Order)	The study area possesses one unnamed first Strahler order, through the proposed development site. This drainage line is Unlikely Key Fish Habitat under the NSW FM Act.
Spot point Australian Height Datum (AHD)	The proposal runs horizontally along the 320m Australian Height Datum (AHD) line.
Surrounding land use	Grazing, road reserve
Expected disturbance footprint	Grazing

Figure 1: Location of the development site (Red polygon)

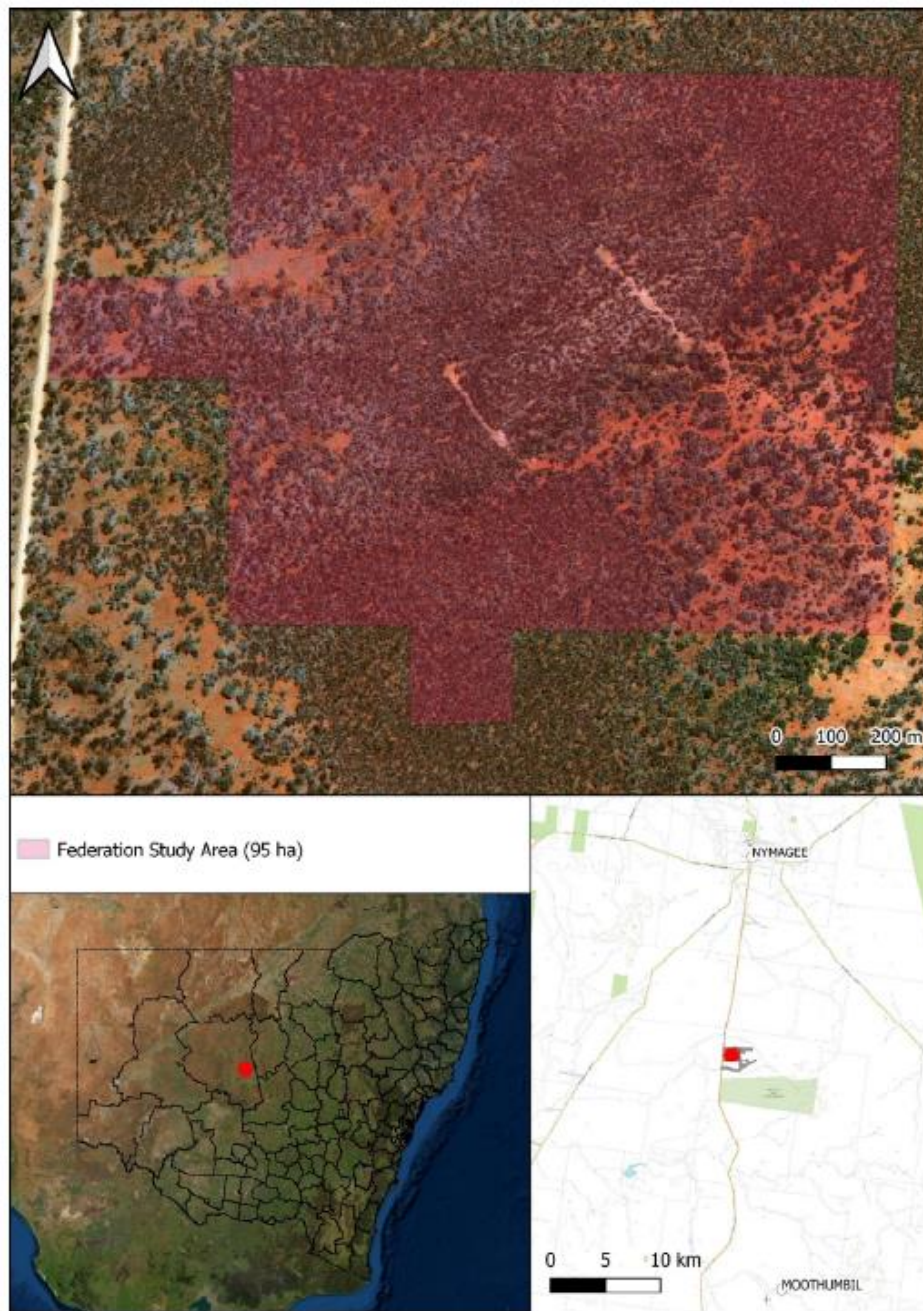
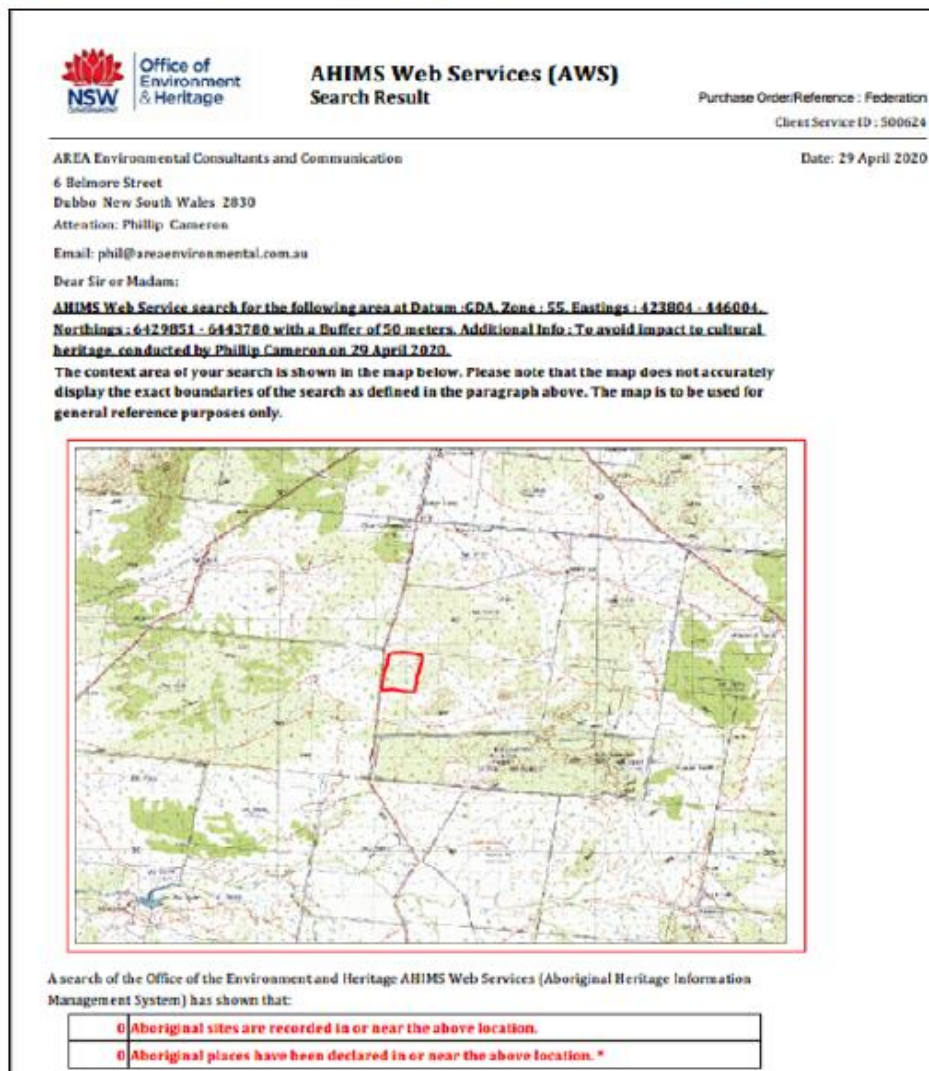


Figure 2: Location of development site (Red polygon shows development footprint)



Example stage 1a2 registration of interest

ABN:29 616 529 867

Advanced Regional Environmental Assessments (AREA)

- ✓ Environmental impact assessment, approvals and auditing
- ✓ Preliminary environmental assessment (PEA)
- ✓ Review of environmental factors (REF)
- ✓ Peer review
- ✓ Community engagement
- ✓ Biobanking and biodiversity offsetting assessments
- ✓ Aboriginal heritage assessments and community walkovers
- ✓ Landscape design and architecture



18 June 2020

Dear Members,

Re: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, and a second proposed development site 1 km West of Nymagee, NSW.

AREA Environmental Consultants & Communication (AREA) have been commissioned by Hera Resources Pty Ltd to facilitate an Aboriginal cultural heritage assessment for the proposals Figure 1 and Figure 2.

The proposed development site is located approximately 17km south of Nymagee. The second proposed development site is the old Nymagee copper mine, located approximately 1km West of Nymagee. The old Nymagee copper mine is currently non-operational however potential work may be required in the future. An assessment of the property will be carried out at a later date. An AHIMS data base search has identified no Aboriginal objects or places within the proposed sites. The study area falls within the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012/001, Federal Court No NSD38/2019).

This correspondence seeks to contact relevant Aboriginal parties from you or your organisation for consultation on the project. The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an application for an Aboriginal Heritage Impact Permit and to assist the Director General of NSW Department of Planning Industry and Environment in his or her consideration and determination of the application. **The closing date for Stage 1 (expressions of interest) from your organisation is 5 pm Thursday 2 July 2020.**

The assessments will follow NSW environmental assessment legislation for developments assessed under Part 4.1 of the EP&A Act. The Aboriginal heritage assessment will incorporate the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010) and *Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW, 2010b).

If your organisation can provide contact details for Aboriginal people who hold knowledge relevant to determining the cultural significance of Aboriginal object(s) and/or place(s) in the area of the proposal, we would be grateful. AREA will use these contact details to provide an opportunity for relevant Aboriginal people to register an interest in a process of community consultation for the proposal. If you or your organisation wish to reregister your interest, please do so by responding to this letter. All individuals or groups who register, will form part of the formal consultation process for the project as Registered Aboriginal Parties (RAPs).

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AREA Environmental Consultants & Communication

(a) 6 Belmore Street Dubbo NSW 2830

(b) "The Old Macquarie Brewery" c.1876, 72 Brisbane Street Dubbo NSW 2830

Ph 0409 852 098

phil@areaenv.com.au

Registering interest in the proposal does not trigger an offer of employment in the proposal's cultural heritage assessment.

Please note we must notify the Department of Planning Industry and Environment and the Local Aboriginal Land Council of the RAPs. As part of this process we are required to notify your details to DPIE & LALC unless you expressly state you do not want your details released to the LALC (there are no exceptions for DPIE).

The proponent's representative is Jonathon Thompson (Jonathon.Thompson@areliametals.com.au) but all correspondence need to be addressed to Gabrielle Green (gabbi@areaenv.com.au) at AREA.



Gabrielle Green
Environmental Administrator
gabbi@areaenv.com.au

Table 1: Regional context of the study area one

Criteria	Value
Central coordinates (GDA94 z55)	434037 / 6436944
Interim Biogeographic Regionalisation for Australia (IBRA Region)	Cobar Peneplain, Nymagee subregion
State	New South Wales
Topographical map sheet	Nymagee 8133
Local Government Area	Cobar LGA
Local Aboriginal Land Council area (LALC)	Cobar LALC
Schedule of Native Title Determination Applications relevant to the study area (Claims, ILUA Future Acts etc.)	The study area falls within the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012/001, Federal Court No NSD38/2019)
AHIMS study area search results	No previously recorded Aboriginal sites on the AHIMS database plot within the study area or within a 10km radius.
Nearest town / locality	Nymagee. Approximately 17 km north
Accessed from nearest town by	Burthong Road
Land use / disturbance	Grazing agriculture.
Nearest waterway (Name, Strahler Order)	The study area possesses one unnamed first Strahler order, through the proposed development site. This drainage line is Unlikely Key Fish Habitat under the NSW FM Act.
Spot point Australian Height Datum (AHD)	The proposal runs horizontally along the 320m Australian Height Datum (AHD) line.
Surrounding land use	Grazing, road reserve
Expected disturbance footprint	Grazing

Table 2: Regional context of the Study Area Two

Criteria	Value
Central coordinates (GDA94 z55)	434621 / 6452345
Interim Biogeographic Regionalisation for Australia (IBRA Region)	Cobar Penneplain > Nymagee Rankin-springs
State	New South Wales
Topographical map sheet	Nymagee
Local Government Area	Cobar LGA
Local Aboriginal Land Council area (LALC)	Cobar LALC
Schedule of Native Title Determination Applications relevant to the study area (Claims, ILUA Future Acts etc.)	The study area falls within the Ngemba, Ngayampaa, Wangaaypuwan and Wayilwan accepted for registration native title claim (Tribunal No NC2012/001, Federal Court No NSD38/2019)
AHIMS study area search results	No previously recorded Aboriginal sites on the AHIMS database plot within the study area, there are four within a 10km radius.
Nearest town / locality	Nymagee. Approximately 1 km West
Accessed from nearest town by	Barton Street
Land use / disturbance	The mine operated as a copper mine between 1880 and 1917. Evidence of vegetation clearing, old mine workings and mineral exploration are evident over the Study Area. Exploration within the mining lease boundary has occurred since 2012. Feral goat grazing and alluvial and colluvial processes during heavy rainfall events have also compounded the level of current and ongoing surface disturbance.
Nearest waterway (Name, Strahler Order)	Three unnamed drainage lines (Strahler 1st order) were recorded within the Study Area
Spot point Australian Height Datum (AHD)	300–330m AHD.
Surrounding land use	Nymagee is a small historic mining village with historic exploration undertaken within much of the area. Land surrounding the mining lease boundary is open grazing country. The township is located near the mining lease boundary with an airport runway to the north
Expected disturbance footprint	The entirety of the mining lease has been disturbed from 1870 to ~1980.

Figure 1: Location of the development site (Red polygon)

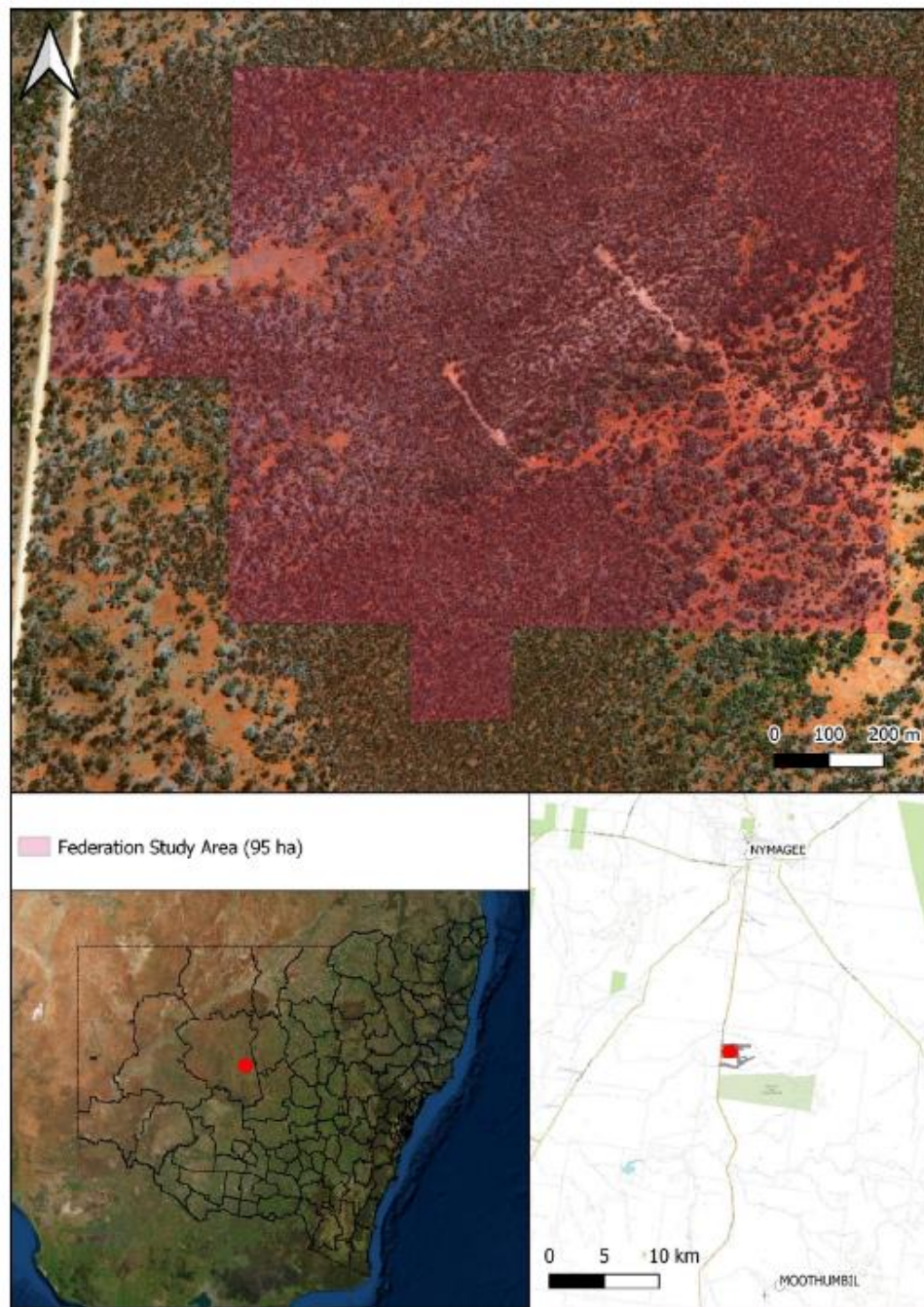


Figure 2: AHIMS search results of development site one (Red polygon shows development footprint)

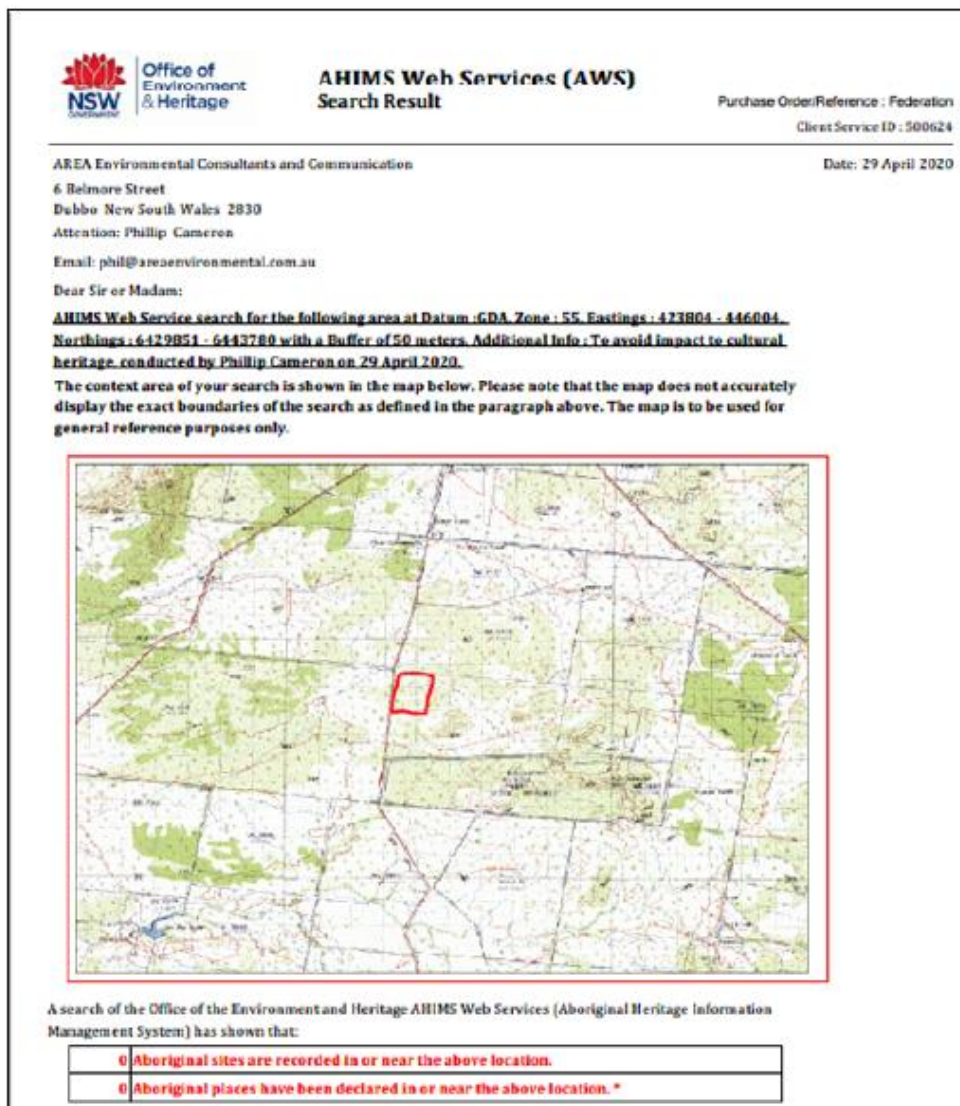


Figure 3: Location of the Old Nymagee Copper mine development site (Red polygon)

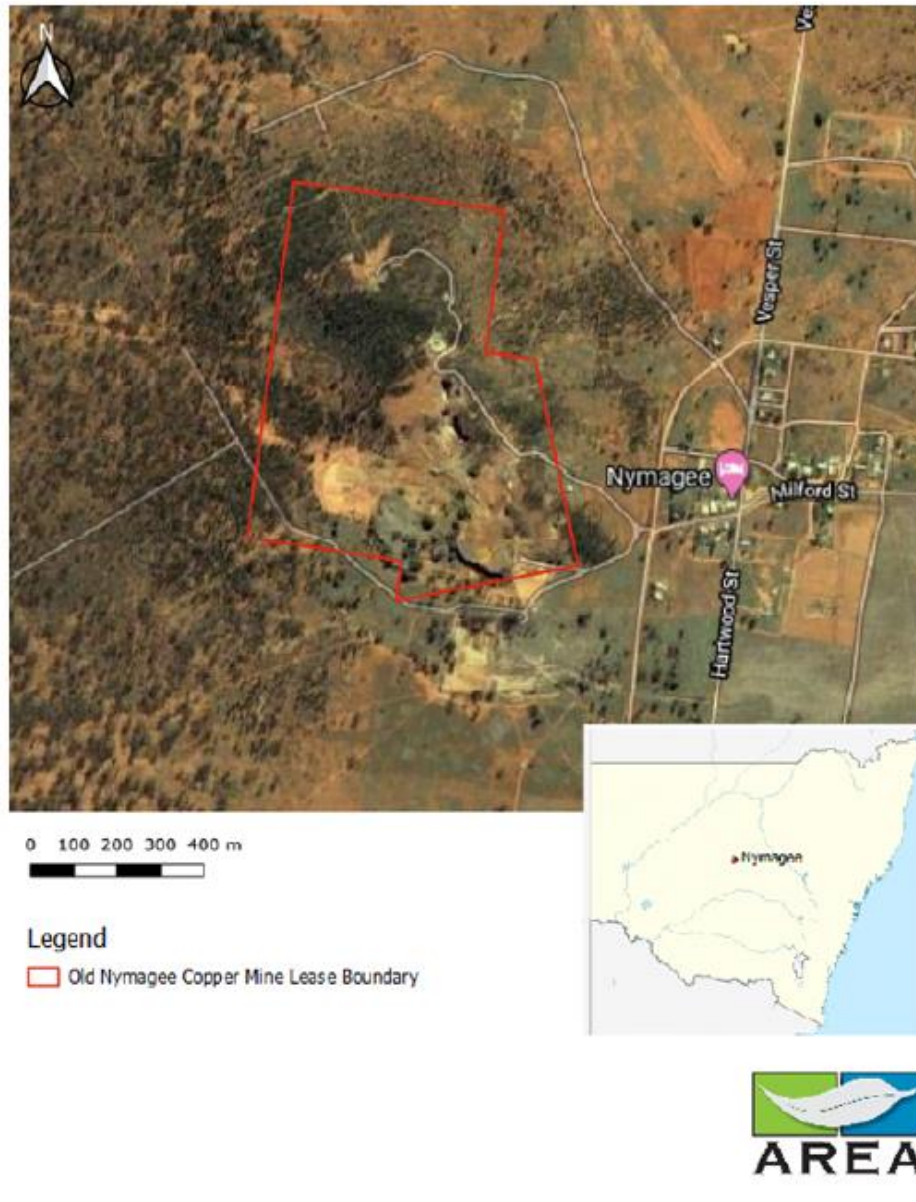


Figure 4: AHIMS search results of development site two (old Nymagee copper mine)



**Office of
Environment
& Heritage**

AHIMS Web Services (AWS)
Search Result

Purchase Order/Reference : old nymagee copper mine
Client Service ID : 512898

AREA Environmental Consultants and Communication
6 Belmore Street
Dubbo New South Wales 2830
Attention: Gabrielle Green
Email: gabbi@areaenvironmental.com.au

Date: 16 June 2020

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -32.1913, 146.1405 - Lat, Long To : -32.0014, 146.4412 with a Buffer of 1000 meters. Additional Info : Cultural heritage assesment conducted by Gabrielle Green on 16 June 2020.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

4	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

Example notification letter to DPIE and LALC

Gabrielle Green

From: Gabrielle Green
Sent: Wednesday, 29 July 2020 3:34 PM
To: Environment Line
Subject: RE: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, and a second proposed development site 1 km West of Nymagee, NSW.

To whom it may concern,

I am writing to you to fulfil stage 1b of the *Aboriginal cultural heritage consultation requirements for proponents 2010*.

This stage of the process involves notifying the government organisations, of the completed list of RAPs for the project.

See below a list of the Registered Aboriginal Parties RE: Consultation for the Aboriginal Cultural Heritage Assessment for a proposed mine development project 17km south of Nymagee, and a second proposed development site 1 km West of Nymagee, NSW.

The Aboriginal parties who have expressed their interest to become RAPs for the project are as follows:

-

- Peter Harris
- Barry Williams
- Hilary Williams
- Nts Corp – (James MacLeod | Senior Solicitor)
- Mark Saddler (Cultural Awareness, School & Tour Programs, Bundy Cultural Tours, Cultural Awareness,
- LLS - Ronnie O'Donnell
- LLS - Blackie Gordon
- Jay Dunne
- Cobar LALC
- Elaine Olsen

If you have any questions or concerns feel free to contact me.

Kind Regards



Gabrielle Green | Cadet Consultant and Environmental Administrator
AREA Environmental Consultants & Communication (ABN: 29 616 529 867)

a: 6 Belmore Street, Dubbo, NSW, 2830
a2: 72 Brisbane Street, Dubbo, NSW, 2830
e: gabbi@areaenv.com.au
w: www.areaenvironmental.com.au
m: 0439 340 940

We acknowledge Traditional Owners and Custodians and their ancestors.

Example of Aboriginal Cultural Heritage Assessment Methodology

ABN:29 616 529 867
Advanced Regional Environmental Assessments (AREA)



06.07.20

Cobar Local Aboriginal Land Council
ceo@cobarlalc.com

Dear Members,

**Re: Aboriginal Cultural Heritage Assessment Methodology for the proposed
Federation mine, Cobar LGA, NSW**

Thank you for registering as an Aboriginal party for the Cultural Heritage Assessment for the proposed Federation mine south of Nymagee in the Cobar LGA, NSW.

AREA Environmental Consultants & Communication (AREA) have been commissioned by Hera Resources Pty Ltd to facilitate an Aboriginal cultural heritage assessment for the proposal. This correspondence seeks out cultural heritage knowledge for the study area and feedback for the methodology for the assessment (see next page). As a Registered Aboriginal Party, your consideration of these matters would be highly valued.

If you have any knowledge relevant to the study area that may help inform the assessment or feedback regarding the proposed methodology, please contact Gabbi Green at AREA by email (gabbi@areaenv.com.au) or AREA by phone (0409 852 098), no later than 24 July 2020.

A handwritten signature in blue ink, appearing to read "Gabrielle Green".

Gabrielle Green
Environmental Administrator
gabbi@areaenv.com.au

Federation Mine Aboriginal Heritage Methodology

Assessment Methodology for the proposed Federation Mine

The assessment will be conducted according to the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010). The major aspects of the investigation are summarised below.

Preliminary assessment:

- AREA will seek out Aboriginal cultural heritage knowledge for the study area from the Registered Aboriginal Parties (RAPs).
- An AHIMS search has been conducted to identify any sites already recorded in the study area and the immediate surrounds. The database will also be searched for other archaeological assessments that have been undertaken in this vicinity. No previously-recorded sites were identified.
- Landscape features and the archaeological context has been analysed to help form a predictive model for the study area. This model has been used to inform the field assessment.

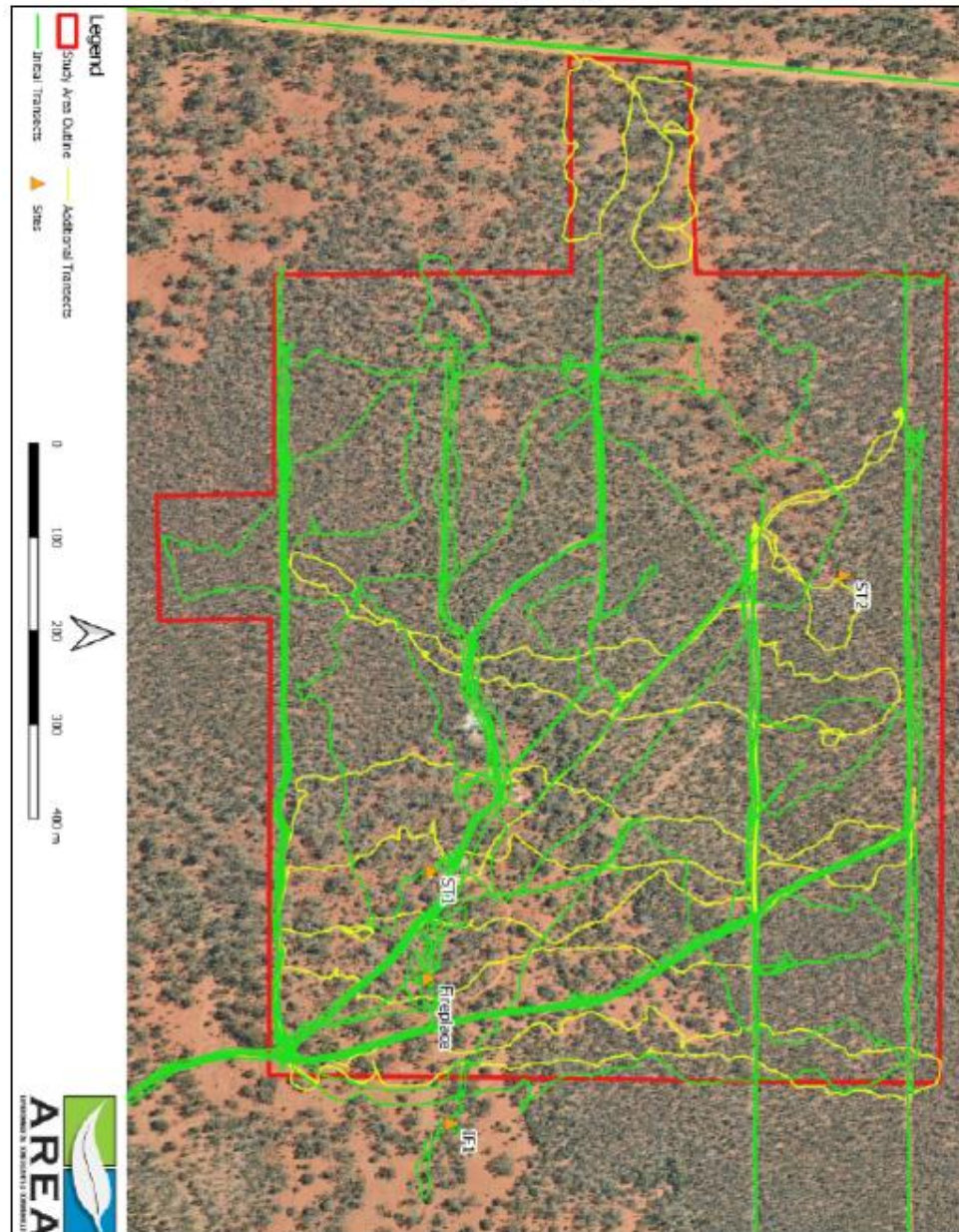
Initial Field assessment:

- Two staff members from AREA undertook a field survey of the study area accompanied by two representatives from the RAPs over two 10-hour days.
 - Fieldwork positions were offered to the Cobar LALC and the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants. Cobar LALC was unable to provide site representatives. Three representatives from the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants attended the survey including male and female positions. Please note that it was not practical to offer positions for the field assessment to each RAP. Preliminary studies indicated that a four-person team was sufficient for the survey. Cobar LALC were unable to provide a sites officer at the time for unrelated reasons.
- The purpose of the field assessment was to identify any previously-undetected Aboriginal sites and evaluate the possible need for further investigation (i.e. test-excavation).
- The field assessment team combed the study area in transects with a spacing of 20 metres between personnel (Figure 1; 'Initial Transects'). A GPS was used to ensure the survey covered the study area. The survey was intensified in areas of higher archaeological potential.
- Additional survey was conducted as part of the ecology assessment in order to ensure all mature trees were inspected for cultural modification (Figure 1; 'Additional Transects').
- Cultural heritage sites were recorded using AREA's recording criteria, photographs and GPS.

Findings and Final report:

- Four sites, two culturally modified trees, a stone artefact and a fireplace, were recorded during the survey (Figures 1 & 2).
- The findings of the preliminary assessment and the initial field assessment will be used to prepare the Aboriginal Cultural Heritage Assessment for the proposal. The report will be issued to all RAPs for comment.

Figure 1: Location of the proposal, survey transects and sites



Federation Mine Aboriginal Heritage Methodology

Figure 2: Aboriginal sites recorded during the assessment



Example of updated methodology

Anna Darby

From: Anna Darby
Sent: Thursday, 24 September 2020 3:52 PM
To: ceo@cobarlalc.com
Cc: Phil Cameron; Gabrielle Green
Subject: Updated methodology for Aurelia Metals Projects and invitation to participate in fieldwork
Attachments: V1.3_Aurelia_Haul Road and Quarry_Methodology_R Clements.pdf

Dear members of the Cobar Local Aboriginal Land Council,

c/o Rena Clements

Thank you for your continued involvement with the Federation mine project.

Please see attached the updated methodology as we are now calling the consultation for the project 'Aurelia Metals Projects' as there are other areas needing to be assessed for the same client in the same area. The name change just reflects there are now many smaller projects being managed under the one consultation process which is now not just limited to the Federation Project.

If you would like to comment on the Aboriginal cultural heritage of the study area or the proposed methodology, please provide your response by **22 October 2020**.

We would also like to invite a member of the Cobar Local Aboriginal Land Council to participate in fieldwork. Field work will be conducted over 3 days from **Thursday 22 October to Saturday 24 October 2020** involving two sites officers, one from your group and the other from the Native Title Claimants. If one of the group cannot provide a site officer then the position will be offered to the other group.

On Thursday we will be assessing the Quarry and will walk transects over the 800m² area until we all agree sufficient survey effort has been applied. Then on Friday and Saturday we will be assessing the haul road and we will walk up it one day and back the next (two days of assessment). Or alternatively we can walk in a weaving pattern 7.5 km on the first day and the remainder on the next until we all agree sufficient survey effort has been applied. We are hoping Saturday will be a half day providing the area has been properly assessed. Other details for the fieldwork:

- AREA are currently in the process of getting accommodation at the Hera Mining Camp for 3 nights (Wednesday to Saturday), meals are also included (breakfast, lunch and Dinner)
- As it is a mine site all workers, irrespective of their position and permanency need to be inducted (the mine will provide details that can be done online) and be drug and alcohol tested before being allowed to start work.
- PPE is High visibility long sleeve shirts, long pants, steel capped boots and a broad brimmed hat need to be worn on site at all times. There is a lot of walking involved in this project please bring boots that are well broken in.
- There is no fuel in Nyamgee, keep that in mind when planning your trip.

Can you please send through a copy your Certificate of Currency and Workers insurance certificate of currency.

If you have any questions do not hesitate to ask. If you are interested in the work please respond to this email.

I look forward to working with you on this project.

Kind regards,

Anna Darby | Environmental Consultant
AREA Environmental Consultants & Communication (ABN: 29 616 529 867)

1



a: 6 Belmore Street, Dubbo, NSW, 2830
a2: 72 Brisbane Street, Dubbo, NSW, 2830
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w: www.areaenvironmental.com.au
m: 0413 281 439

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24 September 2020

Rena Clements
Cobar LALC
ceo@cobarlalc.com

Dear Rena Clements,

Re: Aurelia Metals Projects

Thank you for registering as an Aboriginal party for the Aboriginal Cultural Heritage Assessment for the proposed Federation Mine south of Nymagee in the Cobar LGA, NSW.

We are now calling the consultation project '*Aurelia Metals Projects*' as there are other areas needing to be assessed for the same client in the same area. The name change just reflects there are now many smaller projects being managed under the one consultation process which is now not just limited to the Federation Project.

AREA Environmental Consultants & Communication (AREA) have been commissioned by Aurelia Metals Pty Ltd to facilitate an Aboriginal cultural heritage assessment for two new areas being managed under the Aurelia Metals Project, these are:

- for a proposed quarry as part of a project called 'MOD 6' at the Hera Mine. The quarry will be about four hectares (800 metres by 800 metres) and we have allowed a day to assess this area on foot.
- for a proposed haul road from the Hera Mine to the Federation project we recently assessed together. This road will be about 15 km long and about 50 m wide and if we allow for 15 km of walking per day we can assess the area in two days.

This correspondence seeks out cultural heritage knowledge for the study area and feedback for the methodology for the assessment (see next page). As a Registered Aboriginal Party, your consideration of these matters would be highly valued.

If you have any knowledge relevant to the study area that may help inform the assessment or feedback regarding the proposed methodology, please contact Anna Darby at AREA by email (anna@areaenv.com.au) or AREA by phone (0413 281 439), no later than **22 October 2020**.

Anna Darby
Environmental Consultant
anna@areaenv.com.au

Aurelia Metals Projects Aboriginal Heritage Methodology

Proposed Development

Aurelia Metals Pty Ltd (Aurelia) is proposing to construct and operate a dual lane 15km x 50m wide haul road between Federation deposit and Hera Mine.

They are also proposing to build a 4-hectare quarry as a separate project on the Hera Mine.

Background

Both projects are being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) for the projects have yet to be issued.

Proposed Assessment Methodology

The assessment will be conducted in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010). The major aspects of the investigation are summarised below.

Preliminary assessment:

- AREA will seek out Aboriginal cultural heritage knowledge for the study areas from the Registered Aboriginal Parties (RAPs).
- An AHIMS search has been conducted to identify any sites already recorded in the study area and the immediate surrounds. The database will also be searched for other archaeological assessments that have been undertaken in this vicinity. No previously recorded sites were identified.
- Landscape features and the archaeological context has been analysed to help form a predictive model for the study area. This model has been used to inform the field assessment.

Initial field assessment:

An archaeological field survey for each study area will be undertaken in accordance with the code of practice, the objectives will be to:

- Assess the Aboriginal cultural heritage values of the study areas, this will take three days with two sites officers.
- Aurelia is extending an invitation to a Registered Native Title claimant and a Cobar LALC sites officer to participate in the assessment with an AREA archaeologist. The assessment will be completed by walking transects over each area.
 - Note, as it a mine site all workers, irrespective of their position and permanency need to be inducted (the mine will provide details that can be done online) and be drug and alcohol tested before being allowed to start work. High visibility long sleeve shirts, long pants, steel capped boots and a broad brimmed hat need to be worn on site at all times.
 - For the haul road we will walk up it one day and back the next (two days of assessment). Or alternatively we can walk in a weaving pattern 7.5 km on the first day and the remainder on the next until we all agree sufficient survey effort has been applied. As its flat ground walking will be easy if you have broken in your boots (be sure to break in your boots before this assessment).

Aurelia Metals Aboriginal Heritage Methodology

- For the quarry we will walk transects over the 800m² area until we all agree sufficient survey effort has been applied.
- Identify Aboriginal archaeological and cultural heritage values that may be impacted by the proposed works,
- Identify any previously-undetected Aboriginal sites and evaluate the possible need for further investigation (i.e. test-excavation).
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed
- Undertake the survey on foot using transects at a predetermine spacing dependent on the impact footprint. A GPS will be used to ensure the survey covers both the study areas.
- Cultural heritage sites were recorded using AREA's recording criteria, photographs and GPS.

The image below shows the approximate location of the proposed 4-hectare quarry (blue circle) and the black line shows the approximate location of the proposed haul road.



Example of MOD 6 Surface Extraction Area and Relocated Magazine draft report sent to RAPs

Nick Harrop

From: Nick Harrop
Sent: Wednesday, 11 November 2020 2:51 PM
To: pp.tilpz@gmail.com
Subject: Hera Mine Modification 6 – Surface Extraction Area and Relocated Magazine
Attachments: V3.0_AREAEnv_MOD 6 Quarry and Magazine_ACHAR_FINALDRAFT.pdf

Dear Mr Clarke,

I am writing to inform you that the draft heritage report for the Hera Mine Modification 6 has been finalised for your review. Please find the report attached.

It would be appreciated if you could provide us with feedback for the report should you have any. The deadline for feedback is 10 December, but we were hoping to get a response as soon as possible in the interest of moving the project forward.

AREA wishes everyone a very merry festive season. We will be closed for a well-earned break from 19 December to 3 January and look forward to working with you in 2021.

Kind Regards,



Nick Harrop | Project Manager
AREA Environmental Consultants & Communication (ABN: 29 616 529 867)

a: 6 Belmore Street, Dubbo, NSW, 2830
a2: "The Old Macquarie Brewery" c1876, 72 Brisbane Street, Dubbo, NSW, 2830
e: nick@areaenv.com.au
w: www.areaenvironmental.com.au
m: 0405 793 146

We acknowledge Traditional Owners and Custodians and their ancestors.

Example of Six-month update

Anna Darby

From: Anna Darby
Sent: Monday, 31 May 2021 1:13 PM
To: pp.tilpz@gmail.com
Subject: Aurelia Metals Projects update

Dear Joshua Clarke,

Thank you for your continued involvement in the Aurelia Metals Projects consultation.

In May 2020 AREA were engaged by Hera Resources Pty Ltd on behalf of Aurelia Metals Ltd, to undertake Aboriginal community consultation, for the proposed Federation Mine Project, in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW 2010). An archaeological survey in conjunction with the Ngemba, Ngaympaa, Wangaaypuwan and Wayilwan Native Title Claimants was conducted across the proposed Federation Mine site and four Aboriginal sites were recorded.

In September 2020 the project was amended to the 'Aurelia Metals Projects' as there were other areas needing to be assessed for the same client in a similar area. The name change reflected that there are now many smaller projects being managed under the one consultation process, not just limited to the Federation Mine Project. In October 2020 two archaeological surveys were conducted of the proposed MOD 6 Surface extraction area and relocated magazine, and the Federation Services Route. The surveys were attended by members associated with the Native Title Claimants and Cobar LALC. Six Aboriginal sites were recorded during the survey of the proposed Federation Services Route (1 quarry, 2 open sites, and 3 culturally modified scar trees) and have been recorded on the AHIMS Database.

The proposed Federation exploration decline and the proposed MOD 6 Surface extraction area and relocated magazine projects have been submitted for approval to the regulator. The Federation Services Route will now be combined with the proposed solar farm to be submitted as part of an Environmental impact statement (EIS) for the Federation Project to the regulator. A supplementary archaeological survey will be required to cover off remaining areas within the Federation Site, the area of the proposed solar farm and minor alignment changes of the services route. Once the supplementary archaeological survey has been completed an Aboriginal focus group meeting (AFGM) will be held to discuss the project as a whole and the future management of the Aboriginal sites.

It would be appreciated if you could reply to this email to acknowledge its receipt. If you have any questions, don't hesitate to contact me.

Kind regards,

AREA Environmental & Heritage
Consultants Pty Ltd
ABN: 29 616 529 867

AREA Landscape Design Consultants
Pty Ltd
ABN: 56 646 194 176



Anna Darby
Environmental Consultant | Heritage

BASC; Bsc(Hons)

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e: anna@areaenv.com.au
w: www.areaenvironmental.com.au
m: 0413 281 439

We acknowledge Traditional Owners and Custodians and their ancestors.

Example of the AFGM invitation

Anna Darby

From: Anna Darby
Sent: Monday, 30 August 2021 4:44 PM
To: Barry Williams
Subject: RE: Aurelia Metals Projects - AFGM

Hi Barry,

I have just sent out a Teams meeting invite for the upcoming AFGM. Please let me know if you have any issues.

You can also attend the meeting by clicking this link:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NTKyNmU2OTAtYzAwNC00ZDY5LTg4YmQtYTA4YTlhYWM1ODA2%40thread.v2/0?context=%7b%22Tid%22%3a%226ddb37c-a5d0-454f-b090-f443126dc216%22%2c%22Oid%22%3a%22f94ec9c5-c12e-4c12-8410-c6943769b955%22%7d%22%7d

Kind regards,

AREA Environmental & Heritage
Consultants Pty Ltd
ABN: 29 616 529 867

AREA Landscape Design Consultants
Pty Ltd
ABN: 56 646 194 176



Anna Darby
Environmental Consultant | Heritage

BASC; Bsc(Hons)

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m: 0413 281 439

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From: Anna Darby
Sent: Friday, 20 August 2021 9:55 AM
To: Barry Williams <20euabalong17@gmail.com>
Subject: RE: Aurelia Metals Projects - AFGM

Dear Barry,

Due to the evolving COVID-19 situation, AREA and Hera resources will be hosting the AFGM online instead of face-to-face meeting at the Nymagee Hall. To clarify the **face-to-face meeting has been cancelled**.

The date and time of the meeting will remain the same; **Thursday 2 September 2021 12-noon**

To attend the online AFGM please respond by replying to this email or contacting Anna on 041 328 1439.

A link for the AFGM will be sent out closer to the date.

For any people interested in participating in the AFGM that do not have an email address, internet connection, or the capacity to participate in an online session, alternative arrangements will be made available. We are committed to ensuring people have equal opportunity to participate, so please contact me if alternate arrangements are required for you or anyone you know.

Kind regards,

AREA Environmental & Heritage
Consultants Pty Ltd
ABN: 29 616 529 867

AREA Landscape Design Consultants
Pty Ltd
ABN: 56 646 194 176



Anna Darby
Environmental Consultant | Heritage

BASC; Bsc(Hons)

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e: anna@areaenv.com.au
w: www.areaenvironmental.com.au
m: 0413 281 439

We acknowledge Traditional Owners and Custodians and their ancestors.

From: Anna Darby
Sent: Wednesday, 4 August 2021 1:43 PM
To: Barry Williams <20euabalong17@gmail.com>
Subject: Aurelia Metals Projects - AFGM

Dear Barry Williams,

Thank you for your continued involvement in consultation for the 'Aurelia Metals Projects'.

Please find attached an invitation to attend an Aboriginal focus group meeting (AFGM) to be held at **Nymagee Community Hall, Nymagee on Thursday 2 September 2021, 11:30am for a 12-noon start**. The aim of the AFGM is to discuss the findings of previous field surveys, the recorded Aboriginal sites, and the proposed management of the Aboriginal sites at the Hera Mine and the proposed Federation Project, located near Nymagee in central west New South Wales (NSW).

A community information session will take place after the AFGM at 5:30pm. This is an opportunity for the broader community to be updated on the progress of the Federation Project. You are welcome to attend this session also. If you wish to do so, please register your interest. Details are in the attached Federation SIA document.

Kind regards,

AREA Environmental & Heritage
Consultants Pty Ltd
ABN: 29 616 529 867

AREA Landscape Design Consultants
Pty Ltd
ABN: 56 646 194 176



Anna Darby
Environmental Consultant | Heritage

BASC; Bsc(Hons)

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We acknowledge Traditional Owners and Custodians and their ancestors.

AFGM Minutes

Federation Project AFGM Minutes

Date: 02 September 2021

Time: 12pm

Place: Online

Attendees: Anna Darby (AREA; AD), Nick Harrop (AREA; NH), Richard Oldham (Aurelia; RO), Jonathon Thompson (Aurelia; JT), Louise Davis (CEO Condoblin LALC; LD), Isabel Goolagong (Condoblin LALC; IG), Tim Gumbleton (RSM Australia; TG), Joshua Clarke (JC), Mark Saddler (MS), Amy Pagett (Acting CEO Cobar LALC; AP), Braydn Davis (BD)

Apologies: Phil Cameron (AREA)

Minutes:

Introduction/ Acknowledgement of Country

- IG corrected that the project is on Wiradjuri land. There were no objections or additions.

Project Overview

- MS asked about policies for containment of acid leakage from waste rock returned underground back into the water system. RO noted that groundwater flows were towards the mining area and that the waste rock would not oxidise underground as groundwater levels recovered.
- IG asked if there will be monitoring for seepage from waste rock. She asked if cyanide would be used and what the tonnage would be. RO confirmed there would be monitoring. RO confirmed cyanide would continue to be used at the new Hera process plant and be subject to similar controls currently used at the existing Hera process plant. Aurelia would provide information of cyanide management and would get back to IG.
- MS asked whether there was an independent process for monitoring water quality. JT said the information was collected by Aurelia and sent to an independent National Association of Testing Authorities (NATA) accredited laboratory. The results are also regularly updated on the Aurelia website and reported to the EPA. MS wished for the details to be sent to him. JT advised information on water management would be in the EIS which MS could access once submitted.
- MS asked whether there was a strategy for local Aboriginal employment and whether Aurelia has a Reconciliation Action Plan. JT said there was no current strategy or Reconciliation Action Plan. MS argued that there should be a strategy and RAP and Aurelia is far behind in this respect. MS considered that the naming of 'Federation' is disrespectful. JT explained Aboriginal people were employed on the mine, however there was no formal strategy. MS suggested that a strategy or Reconciliation Action Plan should be implemented.
- MS noted that the communications tower is proposed to be on a high point and suggested this is likely to be a significant place. NH noted.

Summary of Results

- MS requested Registered Aboriginal Party's (RAPs) review heritage section of the induction.
- A cultural heritage induction was requested by several RAPs. RAPs were pleased to hear thorough inductions had taken place recently.
- RAPs requested scarred trees be fenced off to avoid accidental impact.
- All RAPs: Survey coverage of the communications tower is insufficient as it was conducted without RAPs. Needs to be re-surveyed. JT agreed and it will be re-surveyed with RAPs.
- IG asked if there is an Aboriginal person employed by the mine (for the lifetime of the mine) to be able to revisit the Aboriginal sites to ensure they have not been damaged and provide ongoing management. LD requested Condoblin Local Aboriginal Land Council (LALC) be involved in ongoing monitoring. JT noted that these tasks are usually carried out by the Aurelia Environmental team but moving forward will consider having the sites monitored casually by a local Aboriginal person. IG noted it would be a good duty of care for Aurelia.
- MS wanted to know if local Aboriginal people would be able to access the sites (subject to health and safety requirements) for cultural practices. JT said access would be allowed.
- TG wanted clarification on who the local Aboriginal people are and who gets contacted. NH confirmed that the RAPs who are part of this project (combination of LALCs and Native Title) become those who are contacted in regard to ongoing management.
- JT noted that Hera's Heritage Management Plan had been updated for new sites identified near Hera Mine, with sites marked and fenced. The Heritage Management Plan for the Federation Project will need to be fleshed out and updated.
- JT noted that Aurelia has changed designs and moved the services corridor to avoid impacts to Aboriginal sites. MS applauds and thanks Aurelia for that.

Management Recommendations

- General agreement all round for the proposed management of sites – avoidance and discreetly fencing off the sites.
- TG asked who is responsible for contacting the RAPs going forward. NH said that it is the responsibility of Aurelia to keep RAPs informed.
- TG stated that the presentations by Aurelia and AREA were a good overview and wanted to know what AREA/Aurelia need from the RAPs moving forward. NH requested that they read the Aboriginal Cultural Heritage Report (ACHR) when it is sent out and provide comments and feedback on the management and cultural heritage/social significance sections on the report.
- NH asks that if anyone has questions or comments that they get in contact with AREA or Aurelia.

Example The Federation Project draft ACHAR sent to RAPs

Anna Darby

From: Anna Darby
Sent: Friday, 15 October 2021 10:28 AM
To: Elaine Ohlsen
Subject: Aurelia Metals Project – 28 day RAP review of the Federation Project ACHAR
Attachments: V3.0 AREAEnv_Federation EIS ACHAR.pdf

Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants
Elaine Ohlsen
email: elaineohlsen49@gmail.com

Dear members of Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan Native Title Claimants,
c/o Elaine Ohlsen

RE: Aurelia Metals Project – 28 day RAP review of the Federation Project ACHAR

Thank you for your continued involvement in the Aboriginal community consultation for the 'Aurelia Metals Projects'.

One component of Aurelia Metals Projects, Hera Resources Pty Limited (Hera Resources) is evaluating the development of the Federation Project (the Project), a proposed underground metalliferous mine development. The Federation Site is located approximately 15km south of the Nymagee township and 10km south of the Hera Mine near Cobar NSW.

The Project comprises underground mining activities and surface infrastructure at the Federation Site, amendments at Hera Mine to facilitate processing of ore from the Federation Site, and a Services Corridor connecting the Federation Site with Hera Mine.

AREA Environmental & Heritage Consultants (AREA) has been engaged by Aurelia to complete an Aboriginal cultural heritage report for the proposed Project. The attached Aboriginal cultural heritage assessment report (ACHAR) includes details of the archaeological surveys conducted, an overview of the Aboriginal community consultation for the 'Aurelia Metals Projects', descriptions of the Aboriginal sites recorded during the surveys, and the proposed management recommendations.

We welcome any comments on the report and any cultural knowledge you have or are willing to share relevant to the Project or the wider region. In accordance with section 4.4.3 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* please provide comments by **Friday 12 November 2021**.

If you have any questions, please don't hesitate to ask.

Kind regards,

AREA Environmental & Heritage
Consultants Pty Ltd
ABN: 29 616 529 867

AREA Landscape Design Consultants
Pty Ltd
ABN: 56 646 194 176



Anna Darby
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We acknowledge Traditional Owners and Custodians and their ancestors.

Appendix B: Database search results

AHIMS 20 Kilometre Buffer Search Result



Office of
Environment
& Heritage

AHIMS Web Services (AWS) Extensive search - Site list report

Your Ref/PO Number : Aurelia Metals

Client Service ID : 539539

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
34-2-0024	Ironbark-OS1	GDA	55	442258	6446198	Open site	Valid	Artefact : -		
	Contact			Recorders	Mr.Thomas Dooley					Permits
34-2-0021	Ironbark Station Rock Flake 1	GDA	55	442287	6446182	Open site	Valid	Artefact : -		
	Contact			Recorders	Mr.Peter Ingram					Permits
34-2-0022	Ironbark Station Rock Flake 2	GDA	55	442276	6446118	Open site	Valid	Artefact : -		
	Contact			Recorders	Mr.Peter Ingram					Permits
34-2-0023	Ironbark Station Scar Tree 1	GDA	55	442022	6445965	Open site	Valid	Modified Tree (Carved or Scarred) :		
	Contact			Recorders	Mr.Peter Ingram					Permits

Report generated by AHIMS Web Service on 02/10/2020 for Anna Darby for the following area at Datum :GDA, Zone : 55, Eastings : 417320 - 457320, Northings : 6420727 - 6460727 with a Buffer of 0 meters. Additional Info : ACHAR. Number of Aboriginal sites and Aboriginal objects found is 4

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

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Appendix C: Unanticipated finds protocol

Unanticipated Finds Protocol

The protocol to be followed in the event previously unrecorded or unanticipated Aboriginal object(s) are encountered during the proposed works is as follows:

- All ground surface disturbance in the area of the finds should cease immediately the finds are uncovered.
- If the finds are of human remains, contact the police.
- Seek verification of the finds from a suitably qualified person, such as a heritage consultant.
- If the finds are verified or very likely to be Aboriginal in origin notify the NSW Heritage and the relevant local Aboriginal community representatives.
- All finds should be professionally recorded and registered on appropriate databases.
- A management strategy will be required according to best practice and consultation with the local Aboriginal community. All management will require approval from the relevant determining authority.