

West Wyalong Solar Farm

Aboriginal Cultural Heritage
Assessment Report

Report to Lightsource Development
Services Australia Pty Ltd

Bland Shire Local Government Area

March 2019



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EXECUTIVE SUMMARY

Background

This Aboriginal Cultural Heritage Assessment Report (ACHAR) has been prepared by Artefact Heritage Services Pty Ltd (Artefact Heritage) on behalf of Lightsource Development Services Australia Pty Ltd (Lightsource) (the proponent) in relation to the proposed construction and operation of a 112 MW DC solar farm in West Wyalong. The proposed solar farm will be constructed on two rural lots at 228-230 Blands Lane, West Wyalong comprising a total of 560 hectares (the study area).

The proposal is a State Significant Development (SSD), application number SSD_18_9504. The NSW Department of Planning and Environment issued Secretary's Environmental Assessment Requirements (SEARS) for this project on 21 September 2018 (SEARS 2018).

Revised SEARS were issued on 8 November 2018 without change to heritage requirements. The SEARS requirements for heritage are as follows:

Heritage – including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents*;

In response to the SEARS, the NSW Office of Environment and Heritage (OEH) (OEH 10 September 2018, Ref: DOC 18/635151). requested that:

- An Aboriginal Cultural Heritage Assessment Report (ACHAR) including survey be required as part of the Environmental Impact Statement (EIS).
- A (non-Aboriginal) Heritage Assessment including a statement of heritage impact (SOHI) should be required as part of the EIS.

To meet the heritage requirements of SSD_18_9504, and OEH requirements, an Archaeological Survey Report (ASR) (Artefact Heritage 2018a) has been provided, and a non-Aboriginal Heritage Assessment is in preparation (Artefact Heritage in prep).

Aboriginal archaeological survey

Artefact Heritage was engaged by Lightsource Development Services Australia Pty Ltd to conduct an Aboriginal archaeological survey for the construction and operation of the proposed solar farm.

The survey was conducted in conjunction with the West Wyalong Local Aboriginal Land Council (LALC) over three days from 9 October to 11 October 2018. The results of the survey identified four new sites:

- West Wyalong Solar Farm Isolated Find 01 (WWSF IF01 AHIMS ID 43-4-0056)
- West Wyalong Solar Farm Isolated Find 02 (WWSF IF02 AHIMS ID 43-4-0071)
- West Wyalong Solar Farm Artefact Scatter 01 (WWSF AS01 AHIMS ID 43-4-0057)
- West Wyalong Solar Farm Bee Tree (WWSF Bee Tree AHIMS ID 43-4-0058)

Consultation

Aboriginal community consultation has been conducted in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (Consultation Requirements) (Department of Environment, Climate Change and Water [DECCW] 2010b). A consultation log has been maintained which details all correspondence with the Registered Aboriginal Parties (RAPs) for the project (Appendix 1). Full records of consultation have also been provided in Appendix 2. The recommendations provided below incorporate input by RAPs to date. Recommendation had been made in the ASR (Artefact Heritage 2018a) for reburial of identified artefacts following salvage. Subsequent to the ASR and during consultation with RAPs at two AFG (Aboriginal Focus Groups), RAPs stated a strong preference for retention of such artefacts by the West Wyalong LALC. The recommendations below reflect this preference, and therefore differ from ASR recommendations.

Recommendations

The following recommendations are made:

- If changes are made to the proposed works which could impact locations outside of the current study area, further archaeological investigation may be required.
- All staff working within the study area must undergo cultural heritage training prior to commencing work on site. This training is to be conducted by the West Wyalong LALC.
- Following development consent, and prior to the proposed salvage collection of artefacts from sites WWSF IF01 (43-4-0056) and WWSF IF02 (43-4-0071) and part of site WWSF AS01 (43-4-0057), a Care Agreement under Section 85A of the NPW Act must be sought for the retention of these artefacts by the West Wyalong LALC.
- Following development consent and prior to construction of the proposed solar farm, surface collection must take place of all known artefacts within WWSF IF01 (AHIMS ID 43-4-0056) and WWSF IF02 (AHIMS ID 43-4-0071) that are to be impacted by the proposed solar farm.
- Following development consent and prior to construction of the proposed solar farm, surface collection must take place of all known artefacts within WWSF AS01 (AHIMS ID 43-4-0057) that are to be impacted by the proposed solar farm.
- The four artefacts within WWSF AS01 (AHIMS ID 43-4-0057) that will not be impacted by the proposed solar farm will not be collected.
- Artefact collection is to be conducted by qualified archaeologists with the Registered Aboriginal Parties.
- An Aboriginal Site Impact Recording Form (ASIRF) must be completed following any impacts to identified sites in the study area as a result of archaeological salvage or project construction.
- Artefacts will not be removed from the region by the participating archaeologists.
- The recording and preliminary analysis of collected artefacts must be conducted at the West Wyalong LALC immediately following collection.
- A report detailing the methodology and findings of the surface salvage must be produced by the participating archaeologists. This report must include detailed analysis of the retrieved artefacts.

- A NO GO zone is to be established for the lifetime of the solar farm. This is the area between the site boundary fence and the internal 2 m high security fence within which the WWSF Bee Tree (AHIMS ID 43-4-0058) and four artefacts from WWSF AS01 (AHIMS ID 43-4-0057) are located. The WWSF Bee Tree (AHIMS ID 43-4-0058) must have a buffer zone that protects the tree's dripline, or a greater area as directed by an arborist, sufficient to ensure the tree's long term viability.
- The location of the NO GO zone must be shown on all construction plans. Copies of plans showing the location of the NO GO zone must be kept on site for reference.
- Signage must be placed at the NO GO zone advising that it contains Aboriginal cultural heritage
- A maintenance / observation program of WWSF Bee Tree (AHIMS ID 43-4-0058) must be undertaken by the proponent to ensure the tree's long term viability.
- At the conclusion of the operation of the proposed solar farm and prior to decommissioning or to changes in land use the suitability of the NO GO zone must be reassessed
- Opportunity must be extended for representatives of the LALCs to observe the excavation of cable trenches in the study area to better inform their understanding of local soil conditions and the potential for Aboriginal cultural heritage.
- To keep consultation current, the Registered Aboriginal Parties should be sent an update on the project every six months during construction of the project.
- A Cultural Heritage Management Plan must be implemented to document the methodology and implementation of the ACHAR recommendations.
- Unexpected Finds: If any Aboriginal object is discovered and/or harmed in, or under the land, while undertaking the proposed development activities, the proponent must:
 - Not further harm the object;
 - Immediately cease all work at the particular location;
 - Secure the area so as to avoid further harm to the Aboriginal object;
 - Notify OEH as soon as practical on 131555, providing any details of the Aboriginal object and its location; and
 - Not recommence any work at the particular location unless authorised in writing by OEH. If human remains are discovered on site, then all work surrounding the area must cease, and the area must be secured. The Applicant must notify the NSW Police and OEH as soon as possible following the discovery, and work must not recommence in the area until this is authorised by OEH.

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ABBREVIATIONS

ACHAR	Aboriginal Cultural Heritage Assessment Report
AFG	Aboriginal Focus Group
AHC	Australian Heritage Council
AHIP	Aboriginal Heritage Impact Permit
AHIMS	Aboriginal Heritage Information Management System
AHMS	Archaeological and Heritage Management Solutions
ALR Act	<i>Aboriginal Land Rights Act 1983</i>
Artefact Heritage	Artefact Heritage Services Pty Ltd
AS	Artefact Scatter
ASR	Aboriginal Archaeological Survey Report
ATSIHP Act	<i>Aboriginal and Torres Strait Islander Heritage Protection Act 1984</i>
BP	Before Present (that is 1950)
Consultation Requirements	Aboriginal cultural heritage consultation requirements for proponents 2010
CHL	Commonwealth Heritage List
Code of Practice	Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales
DA	Development Application
DC	Direct Current
DECCW	Department of Environment, Climate Change and Water (now OEH)
EIS	Environmental Impact Statement
EPA Act	<i>Environmental Planning and Assessment Act 1979</i>
EPBC Act	<i>Environment Protection and biodiversity Conservation Act 1999</i>
Guide	Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW
GPS	Global Positioning System
ha	hectares
HA	Historical Assessment
IF	Isolated Find
km	kilometres

LEP	Local Environmental Plan
LGA	Local Government Area
m	metres
MW	megawatt
mm	millimetres
NHL	National Heritage List
Niche	Niche Environment and Heritage Pty Ltd
NPW Act	<i>National Parks and Wildlife Act 1974</i>
OEH	Office of Environment and Heritage
PAD	Potential Archaeological Deposit
RAP	Registered Aboriginal Party
RNE	Register of the National Estate
SEARS	Secretary's Environmental Assessment Requirements
SSD	State Significant Development
West Wyalong LALC	Local Aboriginal Land Council
WWSF	West Wyalong Solar Farm

1.0 INTRODUCTION

1.1 Introduction and background

This Aboriginal Cultural Heritage Assessment Report (ACHAR) has been prepared by Artefact Heritage Services Pty Ltd (Artefact Heritage) on behalf of Lightsource Development Services Australia Pty Ltd (the proponent) in relation to the proposed construction and operation of a 112 megawatt (MW) DC solar farm in West Wyalong. The proposed solar farm will be constructed on two rural lots at 228-230 Blands Lane, West Wyalong comprising a total of 560 hectares (the study area).

On 21 September 2018 the project was assessed as being a State Significant Development (SSD) (SSD_18_9504) and requiring the preparation of an Environmental Impact Statement (EIS). The NSW Department of Planning and Environment issued Secretary's Environmental Assessment Requirements (SEARs) for the preparation of the EIS with the following requirements for heritage assessment:

Heritage – including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents*;

In response to SEARs, the NSW Office of Environment and Heritage (OEH) (OEH 10 September 2018, Ref: DOC 18/635151). requested that:

- An Aboriginal Cultural Heritage Assessment Report (ACHAR), including survey be required as part of the Environmental Impact Statement (EIS).
- A (non-Aboriginal) Heritage Assessment including a statement of heritage impact (SOHI) should be required as part of the EIS.

The proponent has engaged Artefact Heritage to prepare the assessment of Aboriginal and non-Aboriginal cultural heritage values for the EIS through preparation of an Aboriginal Archaeological Survey Report (ASR), Heritage Assessment (HA), and an ACHAR.

1.2 Study area

The study area consists of two rural lots (Lot 17 and Lot 18 in DP753081) at 228- 230 Blands Lane, West Wyalong comprising a total of 560 hectares (ha). The study area is fronted by Blands Lane to the north (Figure 1.1). It is located within the Bland Shire Local Government Area (Bland Shire LGA) within the Parish of Clear Ridge and County of Gipps. It is contained within the boundary of West Wyalong Local Aboriginal Land Council (West Wyalong LALC).

1.3 Description of works

The proposed development comprises:

- Installation of approximately 296,000 solar panels in the south part of the study area. These will be on a mounting structure with tracking capabilities. Each panel will be approximately 1.95 metres (m) x 0.992 m with a depth of 0.05 m, they will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption.
- Substation and battery energy storage system.

- Internal access roads and access points.
- Perimeter security fencing.

Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site. Access will be provided from Blands Lane (Figure 1.2).

1.4 Background

Artefact Heritage was engaged by Lightsource Development Services Australia Pty Ltd to conduct and prepare an ASR for construction and operation of the solar farm in West Wyalong.

The survey was conducted in conjunction with the West Wyalong local Aboriginal land council (LALC) over three days from 9 October to 11 October 2018. The results of the survey identified four new sites:

- West Wyalong Solar Farm Isolated Find 01 (WWSF IF01 AHIMS ID 43-4-0056)
- West Wyalong Solar Farm Isolated Find 02 (WWSF IF02 AHIMS ID 43-4-0071)
- West Wyalong Solar Farm Artefact Scatter 01 (WWSF AS01 AHIMS ID 43-4-0057)
- West Wyalong Solar Farm Bee Tree (WWSF Bee Tree AHIMS ID 43-4-0058)

1.5 Study objectives

The objectives of this report are to:

- Assess the Aboriginal cultural heritage values of the study area, including archaeological and community cultural values, and the significance of identified values. This is also a requirement of the SEARs.
- Identify Aboriginal cultural heritage values that may be impacted by the proposed works, including consideration of cumulative impacts, and measures to avoid significant impacts. This is also a requirement of the SEARs.
- Ensure appropriate Aboriginal community consultation in the assessment process, as required by the SEARs.
- Identify any recommended further investigations, mitigation and management measures required, in compliance the SEARs, should the project proceed.
- To detail the results of the survey which investigated the areas of archaeological sensitivity and archaeological content of the study area, as required by the SEARS.

This ACHAR has been undertaken in accordance with the following guidelines:

- Secretary's Environmental Assessment Requirements (SSD_18_9504) issued 21 September 2018.
- Aboriginal cultural heritage consultation requirements for proponents 2010 (Consultation Requirements) (Department of Environment, Climate Change & Water [DECCW] 2010a).
- The guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (the Guide) (Office of Environment & Heritage [OEH] 2011).

1.6 Authorship

Anna Darby (Heritage Consultant, Artefact Heritage) completed the archaeological survey and wrote this report. Anna has a Bachelor of Science (Honours) and has three years' experience in archaeological fieldwork including Aboriginal cultural heritage surveys across the Sydney Basin.

Michael Lever (Senior Heritage Consultant, Artefact Heritage) managed the project and field survey, and provided input to the report. Michael has a Bachelor of Arts (Honours) in archaeology, is a current PhD candidate in archaeology at the University of Sydney and has eight years' experience in archaeology in NSW, Victoria and WA.

Vanessa Edmonds provided project direction input and technical review. Vanessa has a Masters degree in archaeology and palaeoanthropology and has over 30 years' experience undertaking Aboriginal cultural heritage surveys nationwide.

Dr Sandra Wallace (Director, Artefact Heritage) provided direction and review. Sandra has a PhD in archaeology from the University of Sydney and has over 14 years experience in consulting archaeology.

1.7 Aboriginal community involvement

An archaeological survey of the site was undertaken over three days from 9 to 11 October 2018, together with representatives of the West Wyalong LALC. Two Aboriginal Focus Group meetings (AFG) were conducted on 11 December 2018, to which all RAPs were invited. One AFG was held at the offices of the West Wyalong LALC, and a second AFG was held at the offices of the Young LALC.

1.8 Report structure

The purpose of this report is to document the results of an investigation of Aboriginal heritage at the study area. As such, the structure of this report includes:

- **Section 1** – Introduction
- **Section 2** – Legislative context: outlines relevant legislation for this assessment
- **Section 3** – Consultation: provides information on the Aboriginal consultation process and results
- **Section 4** – Environmental context: provides an overview of the environmental conditions to provide context for the predictive model
- **Section 5** – Aboriginal context: presents the results of the background ethnohistoric and literature research and database searches. This section also presents a predictive model as background to the survey sampling strategy
- **Section 6** – Archaeological survey: presents the methodology and results of the Aboriginal archaeological survey
- **Section 7** – Aboriginal cultural heritage assessment: outlines the methodology for conducting an Aboriginal cultural heritage assessment and the identified heritage values, based on stakeholder consultation.
- **Section 8** – Significance assessment: full assessment of significance based on consultation with stakeholders following the review of this ACHAR.

- **Section 9** – Impact assessment: discussion of how the proposed works will impact the identified Aboriginal site and how to mitigate against the loss of heritage value.
- **Section 10** – Management and mitigation measures: Outlines the proposed method of mitigating against loss of cultural value.
- **Section 11** – Recommendations: summary of recommendations for further investigations and mitigation against loss of heritage values.
- **Section 12** – References

Figure 1.1: Study area 228-230 Blands Lane, West Wyalong

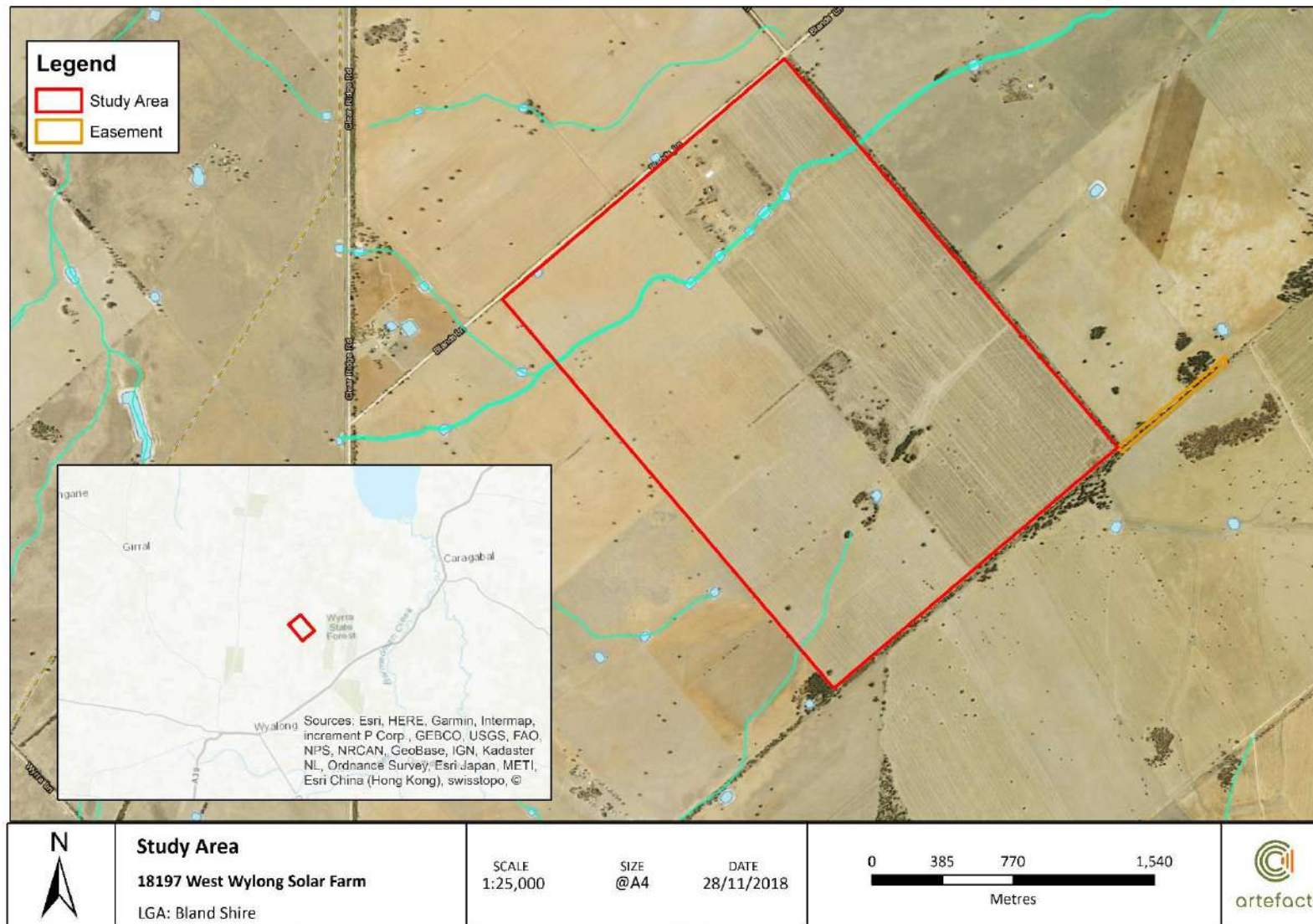
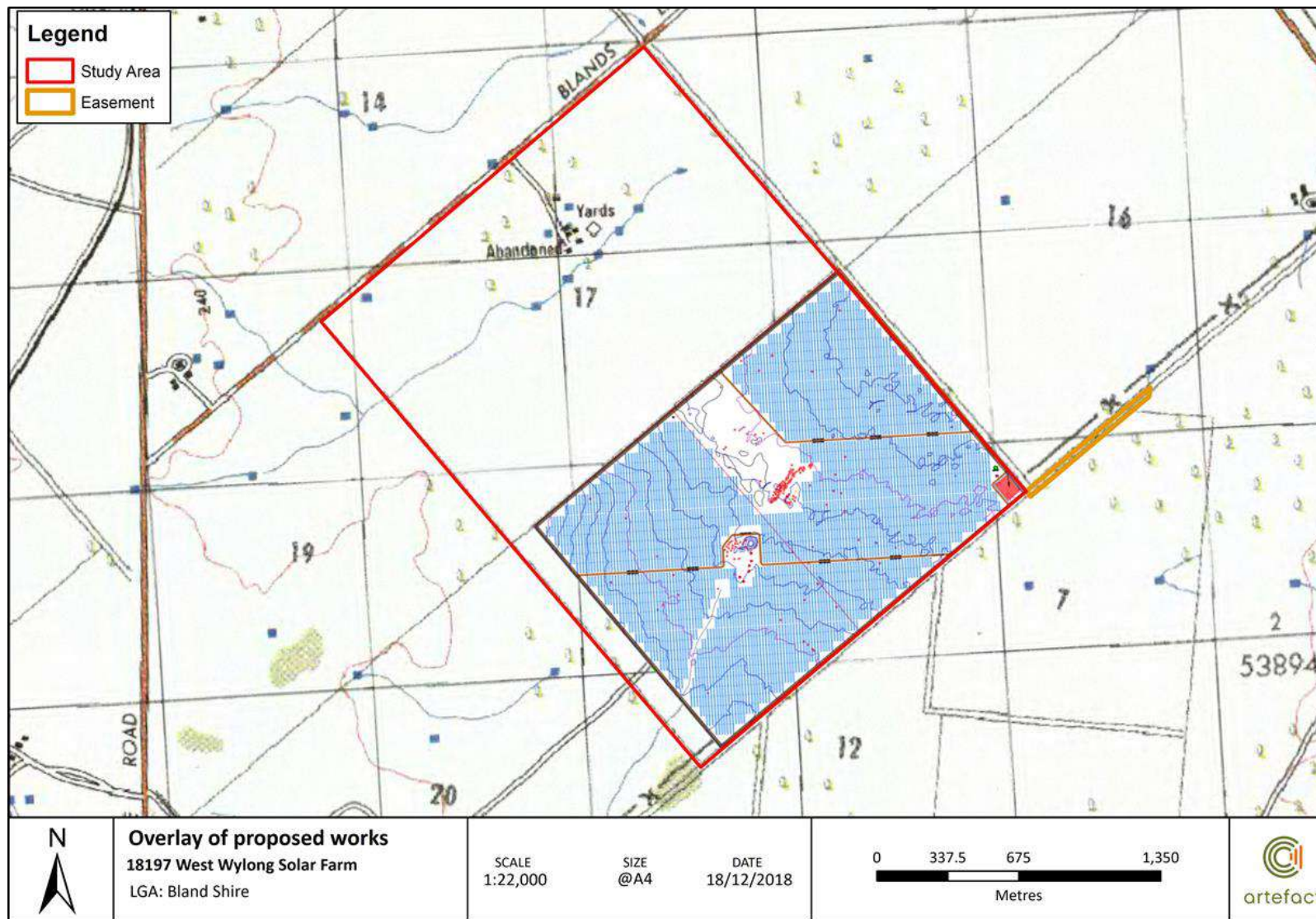


Figure 1.2: Proposed layout West Wyalong Solar Farm showing solar panels in blue (client version REV15)



2.0 LEGISLATIVE CONTEXT

2.1 State legislation

2.1.1 *National Parks and Wildlife Act 1974*

The *National Parks and Wildlife Act 1974* (NPW Act) provides statutory protection to all Aboriginal Places and objects. An Aboriginal object is defined by the NPW Act as:

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.

Aboriginal Places are declared by the minister under Section 84 of the NPW Act by order of publishing in the Government Gazette. Aboriginal Places are listed on the NSW Heritage Database also known as the NSW Heritage Inventory. Aboriginal Places are not listed on the State Heritage Register unless they have also been through a State Heritage Register nomination and listing process with the Heritage Council and Minister for Heritage. The protection provided to Aboriginal objects applies irrespective of the level of their significance or issues of land tenure. Aboriginal objects and places are afforded automatic statutory protection in NSW whereby it is an offence to knowingly or unknowingly harm or desecrate an Aboriginal object or Aboriginal Place under Section 86 of the NPW Act.

In accordance with Section 89A any person who is aware of the location of an Aboriginal object must in the prescribed manner, notify the Chief Executive within a reasonable time after the person first becomes aware of that object. The prescribed manner is to complete an Aboriginal Heritage Information Management System Site Recording Form (DECCW 2010: 14)

In order to undertake a proposed activity which is likely to involve harm to an Aboriginal Place or object, it is necessary to apply to the Office of Environment and Heritage (OEH) for an Aboriginal Heritage Impact permit (AHIP). AHIPs are issued by OEH under Section 90 of the NPW Act, and permit harm to certain Aboriginal objects or Aboriginal Places.

The West Wyalong Solar Farm has been designated SSD_ (18_9504) and under Part 4, Division 4.7, section 4.41 of the *Environmental Planning and Assessment Act 1979* an AHIP is not required for SSD that is authorised by a development consent.

There are no Aboriginal Places listed within or close to the study area. Section 5.0 presents information on whether Aboriginal objects are within or likely to occur within the study area.

2.1.2 *Native Title Act 1994*

The *Native Title Act 1994* 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.

A search of the Native Title Claims was conducted on the 19 September 2018. There are no Native Title claims currently registered in the study area.

2.1.3 *Aboriginal Lands Right Act 1983*

The *Aboriginal Land Rights Act 1983* (ALR Act) established Aboriginal Land Councils (at State and Local levels). These bodies have a statutory obligation under the ALR Act to:

- (a) take action to protect the culture and heritage of Aboriginal persons in the council's area, subject to any other law, and
- (b) promote awareness in the community of the culture and heritage of Aboriginal persons in the council's area.

The study area is within the boundary of West Wyalong LALC.

2.1.4 *Environmental Planning and Assessment Act 1979*

Part 4, Division 4.7 of the *Environmental Planning & Assessment Act 1979* (EP&A Act) specifies that any State environmental policy may declare any development to be State significant development as can the Minister, by a Ministerial planning order.

Under Part 4, Division 4.7, section 4.41 the following authorizations are not required for State significant development that is authorized by a development consent granted after the commencement of this Division (and accordingly the provisions of any Act that prohibit an activity without such an authority do not apply):

1 (c) an approval under Part 4, or an excavation permit under section 139, of the *Heritage Act 1977*

1 (d) an Aboriginal heritage impact permit under section 90 of the *National Parks and Wildlife Act 1974*

2 Division 8 of Part 6 of the *Heritage Act 1977* does not apply to prevent or interfere with the carrying out of State significant development that is authorized by a development consent granted after the commencement of this Division.

The State Environmental Planning Policy (State and Regional Development) 2011 (Part 2 (11)) also excludes the application of development control plans for State significant development.

Under Part 5, Division 5.1 (environmental impact assessment) the determining authority cannot carry out an activity or grant approval for an activity that is likely to significantly affect the environment unless an environmental impact statement is prepared.

2.2 **Commonwealth legislation**

2.2.1 *Environment Protection and Biodiversity Conservation Act 1999*

The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) provides a legislative framework for the protection and management of matters of national environmental significance, that is, flora, fauna, ecological communities and heritage places of national and international importance. Heritage items are protected through their inscription on the World Heritage List (WHL), Commonwealth Heritage List (CHL) or the National Heritage List (NHL).

Under Part 9 of the EPBC Act, approval under the EPBC Act is required for any action occurring within, or outside, a Heritage place that has, will have, or is likely to have a 'significant impact' on the heritage values of a World, National or Commonwealth heritage listed property (referred to as a 'controlled action' under the Act). A 'significant impact' is defined as:

an impact which is important, notable, or of consequence, having regard to its context or intensity. If an action is likely to have a significant impact depends upon the sensitivity, value, and quality of the environment which is impacted, and upon the intensity, duration, magnitude and geographic extent of the impacts.

The EPBC Act stipulates that a person who has proposed an action that will, or is likely to, have a significant impact on a site that is listed on the WHL, NHL or CHL must refer the action to the Minister for Sustainability, Environment, Water, Population and Communities (hereafter the Minister). The Minister will then determine if the action requires approval under the EPBC Act. If approval is required, an environmental assessment would need to be prepared. The Minister would approve or decline the action based on this assessment.

There are no WHL, NHL or CHL listed sites within the study area.

2.2.2 Australian Heritage Council Act 2003

The Register of the National Estate (RNE) is an evolving record of Australia's natural, cultural and Aboriginal heritage places that are worth keeping for the future. The Australian Heritage Commission compiles and maintains the RNE under the *Australian Heritage Council Act 2003*. Places on the RNE that are in Commonwealth areas, or subject to actions by the Australian Government, are protected under the EPBC Act by the same provisions that protect Commonwealth heritage places (see above).

Following amendments to the *Australian Heritage Council Act 2003*, the RNE was frozen on 19 February 2007, meaning no new places can be added, or removed. The RNE is now maintained on a non-statutory basis as a publicly available archive within the Australian Heritage Database and contains over 13,000 places including many places of local or State significance.

There are no sites listed on the RNE within the study area.

2.2.3 Aboriginal and Torres Strait Islander Heritage Protection Act 1984

The Commonwealth Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (ATSIHP Act), deals with Aboriginal cultural property (intangible heritage) in a wider sense. Such intangible heritage includes any places, objects and folklore that 'are of particular significance to Aboriginals in accordance with Aboriginal tradition'. These values are not currently protected under the NPW Act.

There is no cut-off date and the ATSHIP Act may apply to contemporary Aboriginal cultural property as well as ancient sites. The ATSHIP Act takes precedence over state cultural heritage legislation where there is conflict. The Commonwealth Minister who is responsible for administering the ATSIHP Act can make declarations to protect these areas and objects from specific threats of injury or desecration. The responsible Minister may make a declaration under Section 10 of the Commonwealth Act in situations where state or territory laws do not provide adequate protection of intangible heritage.

Where an Aboriginal individual or organisation is concerned that intangible values within the proposal are not being adequately protected they can apply to the Minister for a declaration over a place.

No intangible places were identified during the survey.

3.0 CONSULTATION

Aboriginal community consultation has been conducted in accordance with the Consultation Requirements. A consultation log has been maintained which details all correspondence with the registered Aboriginal parties for the project (Appendix 1). Full records of consultation have also been provided in Appendix 2.

3.1 Identification of stakeholders and registrations of interest

In accordance with step 4.1.2 of the Consultation Requirements, Artefact Heritage corresponded with the following organisations by letter and email on the 10 October 2018 requesting the details of Aboriginal people who may hold cultural knowledge relevant to determining the Aboriginal significance of Aboriginal objects and/or places within the local area:

- Riverina Local Land Services
- Bland Shire Council City Council
- Native Title Service Corporation
- West Wyalong LALC
- Office of Environment and Heritage
- National Native Title Tribunal
- Office of the Registrar, *Aboriginal Land Rights Act 1983*

In addition to this, and in accordance with Step 4.1.3 of the Consultation Requirements, an advertisement was placed in Koori Mail and the Leader (Wagga Wagga) Advertisements on the 17 October 2018, inviting the participation of Aboriginal people who may hold cultural knowledge relevant to determining the Aboriginal significance of Aboriginal objects and/or places within the local area.

In accordance with Step 4.1.3 of the Consultation Requirements, on the 29 October 2018, emails or letters were sent to all Aboriginal persons or organisations identified through advertisement or through responses from agencies contacted as part of Step 4.1.2. In accordance with Step 4.2 the letters provided details about the location and nature of the proposal, as well as an invitation to register as an Aboriginal stakeholder.

As a result of that process four groups and individuals registered their interest (Table 3.1).

Table 3.1: Registered Aboriginal parties for the study area

Contact	Organisation
Leeanne Hampton	West Wyalong LALC
Marnie Freeman	Young LALC
Norma Freeman	Young LALC

Contact	Organisation
Enid Clarke	Young LALC
Alona Apps	Young LALC
Krystal Ingram	Young LALC
Jirrah Freeman	Young LALC
Jahnayah Freeman	Young LALC
Keith Freeman	Young LALC
Mr Robert Clegg	Wiradjuri Council of Elders
Paul Boyd/ Lilly Carroll	Didge Ngunawal Clan

3.2 Review of the assessment methodology

A copy of the proposed assessment methodology was sent to registered Aboriginal parties (RAPs) by email on 12 November 2018, requesting comments by 10 December 2018. Responses received are outlined in Table 3.2.

Table 3.2: Summary of proposed methodology comments

Contact	Organisation	Comments
Leeanne Hampton	West Wyalong LALC	They have conducted surveys within the region, are aware of archaeological finds and are certain that this proposed area will have similar features.

3.3 Survey

On 29 September 2018 the West Wyalong LALC was invited to participate in fieldwork, Table 3.3 identifies the members of the West Wyalong LALC representatives who participated in the 2018 survey.

Table 3.3: West Wyalong LALC representatives participating in 2018 field survey

Name	Date of participation
Braydn Davis	9 October 2018
Linton Howarth	9 October to 11 October 2018
Jesse Hampton	10 to 11 October 2018
Lee Hampton	11 October 2018

A copy of the draft ASR (Artefact Heritage 2018a) and this ACHAR will be forwarded to the RAPs for a 28-day review for the identification of cultural heritage values.

3.4 Aboriginal Focus Group

All RAPs were invited to attend an Aboriginal Focus Group (AFG). Two AFG were held on 11 December 2018. One AFG was held at the offices of the West Wyalong LALC and one AFG was held at the offices of the Young LALC.

The objective of the AFGs were to:

- Present the project and the archaeological assessment
- Gain an understanding of the cultural values of the study area
- Come to an agreement on the management and mitigation measures
- Identify the next steps and timeframes

The attendees for both meetings are outlined in Table 3.4 and Table 3.5 below. Meeting minutes are provided in Appendix Two

Table 3.4: List of attendees at the AFG at West Wyalong LALC

Name	Organisation
Polly Baranco	Lightsources Development Services Australia
Michael Lever	Artefact Heritage
Anna Darby	Artefact Heritage
Aimee Davis	West Wyalong LALC
Linton Howarth	West Wyalong LALC

Table 3.5: List of attendees at the AFG at Young LALC

Name	Organisation
Polly Baranco	Lightsources Development Services Australia

Michael Lever	Artefact Heritage
Anna Darby	Artefact Heritage
Alona Apps	Young LALC
Norma Freeman	Young LALC

3.4.1 Outcomes of the AFGs

The following recommendations were agreed upon during the two AFGs

- All staff involved in works in the study area must undergo cultural heritage training prior to commencing work on site. This training is to be conducted by the West Wyalong LALC.
- Surface collection must be undertaken of known artefacts within WWSF IF01 (AHIMS ID 43-4-0056), WWSF IF02 (AHIMS ID 43-4-0071)
- Surface collection must be undertaken for those known artefacts within WWSF AS01 (AHIMS ID 43-4-0058) that are to be impacted by the proposed solar farm.
- The four artefacts within WWSF AS01 (AHIMS ID 43-4-0058) that will not be impacted by the proposed solar farm will not be collected.
- Artefact collection is to be conducted by qualified archaeologists with the Registered Aboriginal Parties.
- Artefacts will not be removed from the region by the participating archaeologists.
- The recording and preliminary analysis of collected artefacts must be conducted at the West Wyalong LALC immediately following collection.
- Artefacts will be held by West Wyalong LALC under a Care Agreement and will be used for their teaching collection.
- A NO GO zone is to be established. This is the area between the site boundary fence and the internal 2 m high security fence within which the WWSF Bee Tree (AHIMS ID 43-4-0058) and four artefacts from WWSF AS01 (AHIMS ID 43-4-0057) are located. The WWSF Bee Tree (AHIMS ID 43-4-0058) must have a buffer zone that protects the tree's dripline, or a greater area as directed by an arborist, sufficient to ensure the tree's long term viability.
- The NO GO zone should have signage indicating that it is an Aboriginal cultural site.
- A passive maintenance program of WWSF Bee Tree (AHIMS ID 43-4-0058) must be undertaken through the life of the development
- Opportunity must be extended for representatives of the LALCs to observe the excavation of cable trenches to better inform their understanding of soil conditions and potential Aboriginal cultural heritage.

3.5 Results from RAP review of the ACHAR

A draft copy of the ACHAR was sent to RAPs on the 7 January 2019 for a 28 days review period, with comments requested by 4 February 2019. No reviews were received from the RAPs in regard to the draft ACHAR.

Appendix 1 provides the log for the project to show continuity of consultation. Appendix 2 provides the full consultation records for this ACHAR.

4.0 ENVIRONMENTAL CONTEXT

The following was derived from Artefact Heritage (2018a).

4.1 Geology

The study area is within the Murray Darling Basin and is within the catchment area of the Lachlan River, which is situated 60 kilometres (km) to the northeast.

The study area is within the NSW South Western Slopes biogeographic region. This is an extensive area of foothills and isolated ranges comprising the lower inland slopes of the Great Dividing Range extending from north of Cowra through southern NSW into western Victoria. This bioregion is dominated by a sub-humid climate characterised by hot summers and low winter temperatures. Mean annual rainfall in the vicinity of the study area is approximately 470 mm. Highest rainfall months are generally in mid winter then late spring early summer.

The bioregion lies wholly in the eastern part of the Lachlan Fold Belt which consists of a complex series of north to north-westerly trending folded bodies of Cambrian to Early Carboniferous sedimentary and volcanic rocks. Granites are common and mostly located in large scale upfolded bodies of rock. Granite landscapes occur either as central basins surrounded by steep hills formed on contact metamorphic rocks, or as high blocky plateau features with rock outcrops and tors. Hilly landscapes developed on the sedimentary and volcanic rocks are controlled by structural features (bedding and faults) and typically form lines of hills extended along the strike of more resistant rocks such as quartzite. The valleys between ranges are in generally softer rocks such as shale, phyllite or slate. Limited areas of Tertiary basalt with underlying river gravels and sands occur, and as the country becomes lower to the west and north, wide valleys filled with Quaternary alluvium and occasional lakes become the dominant landscape form (King et al.1998).

The study area is approximately four kilometres northwest of the Booberoi Hills. These form a range 14 km in length reaching heights of 310 m above sea level. The geology of the Booberoi Hills is comprised of Silurian-Devonian sedimentary rocks including sandstone, siltstone, mudstone and igneous elements such as basalt. Harder metamorphic rocks such as silcrete are not uncommon inclusions in the sedimentary matrix of the Booberoi Hills (NSW Geology Plus 2018). It is likely the Booberoi Hills were an important regional source of raw stone materials for Aboriginal people occupying the study area landscape and surrounds.

4.2 Hydrology

There are no major waterways within 10 km of the study area. Sandy Creek is a partly-perennial stream, which traverses 5 km to the north of the study area. Barmedman Creek (previously Back Creek) is a mainly-perennial river which traverses 12 km east of the study area. Ephemeral drainage lines and tributaries of Barmedman Creek are located within 2 km of the study area. Lake Cowal is a large and shallow ephemeral lake situated 15 km to the northwest of the study area and an important Aboriginal archaeological and cultural area (Niche 2018). Isolated ephemeral drainage lines cross the study area northeast to southwest and are associated with minor changes in topography. These ephemeral drainage lines may have provided a focus for transient Aboriginal occupation in an otherwise dry landscape.

4.3 Soils

The overall pattern of soils in the study area landscape is one where shallow, stony soils are found on the tops of ridges and hills. Moving downslope, texture contrast soils are the norm with subsoils

derived from the underlying weathered rock and the topsoils being a homogenised surface mantle of coarser material derived from all parts of the slope. On valley floors subsoils have drabber colours indicative of poor drainage and they may accumulate soluble salts. Dryland salinity is widespread. Alluvial sands and loams are more common than clays in most parts of the landscape but alluvial clays become more important nearer to the Riverine Plain. Over the Quaternary, soils in these landscapes have accumulated a considerable quantity of windblown silt and clay from western NSW.

Soils in the study area consist of the Spy Hill soil landscape and the Wah Way soil landscape, with the Marsden soil landscape adjacent to the southern boundary of the study area (King et al. 1998). The Spy Hill soil landscape usually occurs on gently undulating plains and rises on the Devonian Wyalong Granite and reworked granite materials. It is moderately deep (500-800 mm), with moderately well-drained, red earths that occur on upper slopes and some mid-slopes and lower slopes. Shallow to moderately deep, well-drained earthy Sands and Siliceous Sands occur on some slopes along some drainage lines. Red podzolic soils are found on mid and lower slopes and are moderately deep and well drained. Yellow and brown solodic soils occur along some drainage lines and while deep, greater than one metre, these soils do not drain well.

The Wah Way soil landscape occurs on the Wah Way Plain and the Plains Country extending westwards to parts of the Barmedman Creek Floodplain. The soils are predominantly very deep (>1.5 m), poorly drained clays with red, grey and brown clays. Very deep (1.5 m), imperfectly drained red brown earths/red clays intergrades occur on some slightly more elevated plains. Localised small areas of gilgai occur. The Marsden soil landscape is characterised by broad alluvial plains in the vicinity of Marsden and west of Caragabal, with conspicuous gilgai microrelief. Deep (1.5 m), very poorly drained grey clays dominate gilgai depressions along with brown and occasional humic gleys. Moderately deep to deep (>1.2 m), imperfectly drained red clays and some grey clays occur on gilgai puffs or crests (King et al. 1998).

Gilgai plains are features that were first observed in Wiradjuri country. The word is derived from 'gilgaay' meaning waterhole. A gilgai describes a hollow in the ground surrounded by a raised rim. Gilgais occur on plains of heavy clay soil, where the terrain is of low relief, and they are characterised by the presence of hollows, rims, and mounds. They are formed by alternating periods of expansion during wet weather and contraction, causing deep cracking, during hot, dry weather (Schaeztl 2007). Gilgai soils are present in the study area and can impact on Aboriginal stone artefacts by moving these vertically through expansion and contraction.

4.4 Native flora

The study area is modelled within the Mallee and Mallee-Broombush dominated woodland and shrubland. This community typically has a canopy layer co-dominated by the Mallee eucalypts *Eucalyptus behriana* (Bull Mallee) and *E. dumosa* (White Mallee), with either (on flat land) *E. socialis* (Red Mallee), or (on low rises) *E. polybractea* (Blue Mallee) and *E. viridis* (Green Mallee). Additional conspicuous tree species may include *Casuarina cristata* (Belah), *Callitris glaucophylla* (White Cypress Pine), and *C. endlicheri* (Black Cypress Pine). The shrub layer may vary strongly from site to site but typically includes *Acacia* species. Ground cover is variable but includes daisies, small chenopods, rock ferns and a variety of other grass species. Areas of gilgai plains are generally covered by tree or large shrub canopy to an extent of about 30 per cent surface cover, with about ten trees per hectare on average. Many herbs and grasses surround gilgais, several of which are amphibious and able to take advantage of ephemeral inundation.

4.5 Native fauna

There has been extensive clearance of native vegetation and a relative lack of study of the NSW South Western Slopes biogeographic region. As a result, accurate reconstruction of native fauna

populations is not readily available. A scoping study for the entire region identified 479 vertebrate taxa, which divided into the following categories: Amphibians five per cent, Reptiles 18 per cent, Birds 64 per cent, Bats four per cent, Mammals 46 per cent. Mammalian species were dominated by kangaroos (*Macropod* sp.), wombats (*Vombatus ursinus*) and smaller desert marsupials (NSW National Parks and Wildlife Service 2001).

4.6 Conclusions

The landscape surrounding the study area was a resource rich landscape with abundant raw material and food resources. Past Aboriginal populations would have used the entire range of flora and fauna available to them not only for material items such as skin cloaks, wooden tools and weapons and shelter but also food. For example, the nuts of the Cypress, which would have been available in the study area, contained seeds which were used in cooking (Clayton and Barlow 1997). In addition, the resources available formed an important part of their ceremonial and religious way of life. For example, the occurrence prior to clearing of carved trees symbolising burial sites.

Aboriginal people were highly skilled at subsistence in dry environments. They had deep knowledge of the locations of soaks and subsurface water resources and were able to range through very dry country. The study area is in a Mallee bioregion. Extensive modern research and historical ethnographic depictions document a range of Aboriginal techniques for extraction of water from Mallee plants even during very dry conditions (Noble and Kimber 1997). Although the study area is not located near sources of permanent water it contains two ephemeral drainage lines. In dry areas ephemeral waterways may have played a far higher role in past Aboriginal local subsistence than they would where water was more abundant. These waterways would have allowed transient use of the study area during periods of high rainfall that is during winter through to late spring/early summer and would have assisted travel through the landscape of resource rich zones such as Lake Cowal and the Booberoi Hills.

Anthropological research indicates that the usual maximum daily ranging distance of hunter gatherers was approximately 10 km (summarised in Winterhandler 2001: 21). The study area is located at an approximate midpoint between several major water resources. It is 14 km west of Barmedman Creek, 15 km southwest of Lake Cowal and 5 km south of Sandy Creek. The study area is also 4 km west of lithic resources at the Booberoi Hills. This would suggest that the ephemeral drainage lines of the study area may have been used as a staging point or camp during travel between local resources.

4.7 Historical background and land use

The following was derived from Artefact Heritage (2018b).

The area surrounding West Wyalong was first visited by non-Aboriginals in 1817. John Oxley was the first to pass through what is now the Bland Shire. In June of that year he was in the vicinity of Ungarie, approximately 34 km to the west of the study area. Oxley was unimpressed by the land and stated that the area would remain uninhabited. However, in the late 1800s the land was discovered to be ideal for the cultivation of wheat (Bland Shire Council's State of Environment Report 2010). In 1898, the Lands Department set aside 12,000 acres for homestead selection to the east of Wyalong, in blocks of 400 to 700 acres. In 1902, a further 7,000 acres was set aside for the same purpose. From the early 20th century the area saw a huge influx of settlers, confident of agricultural success. These new settlers took up the newly subdivided land and set about developing their agricultural businesses clearing the land for cropping and pastoral activities. The areas surrounding the study area would have been heavily timbered with dense areas of Mallee. Good Box, Iron Bark and Pine were also available in large quantities for fencing and building purposes (English 2014).

The first official pastoral lease within the study area, was gazetted in 1848 and called Lake Cowal (Figure 4.1). The run was listed as having frontages to the Billabong Creek, downstream from Billabong (another run), and extending along the Billabong boundary to within 11 km of the future township of Wyalong. Following the *Land Act 1884*, The Lake Cowal run was converted into two pastoral holdings, 701 and 162 (Bland District Historical Society 1993). The study area falls within Lake Cowal 701.

The towns of Wyalong and West Wyalong were established after gold was discovered in 1893 by Joseph Neeld. The Neeld family developed claims on the best of the land. By 1895, after the first load of gold bearing stone was sent to Barmen for crushing, producing a high yield, thousands of people had descended into the area (Bland District Historical Society 1993). The gold rush extended through much of the Bland Shire including the current study area which is located in the boundaries of the Bourke Cooper Dowling and Gipps Gold Field that was proclaimed in 1880 (Figure 4.2). A variety of mining techniques were used locally, ranging from small shaft mines to deep-lead mines with poppet heads. Associated activities may have included establishment of stamping plants and excavation of settling ponds. Soil disturbance resulting from these activities would likely have had a significant impact on any Aboriginal archaeological deposits if present.

In 1913, the Lake Cowal and Barrawang Lands were subdivided for homestead farms (Figure 4.2). Homestead farms were designed to be able to maintain a settler, his family and home under reasonable conditions (English 2014).

Figure 4.1: Lake Cowal run, red arrow indicates the approximate location of the study area

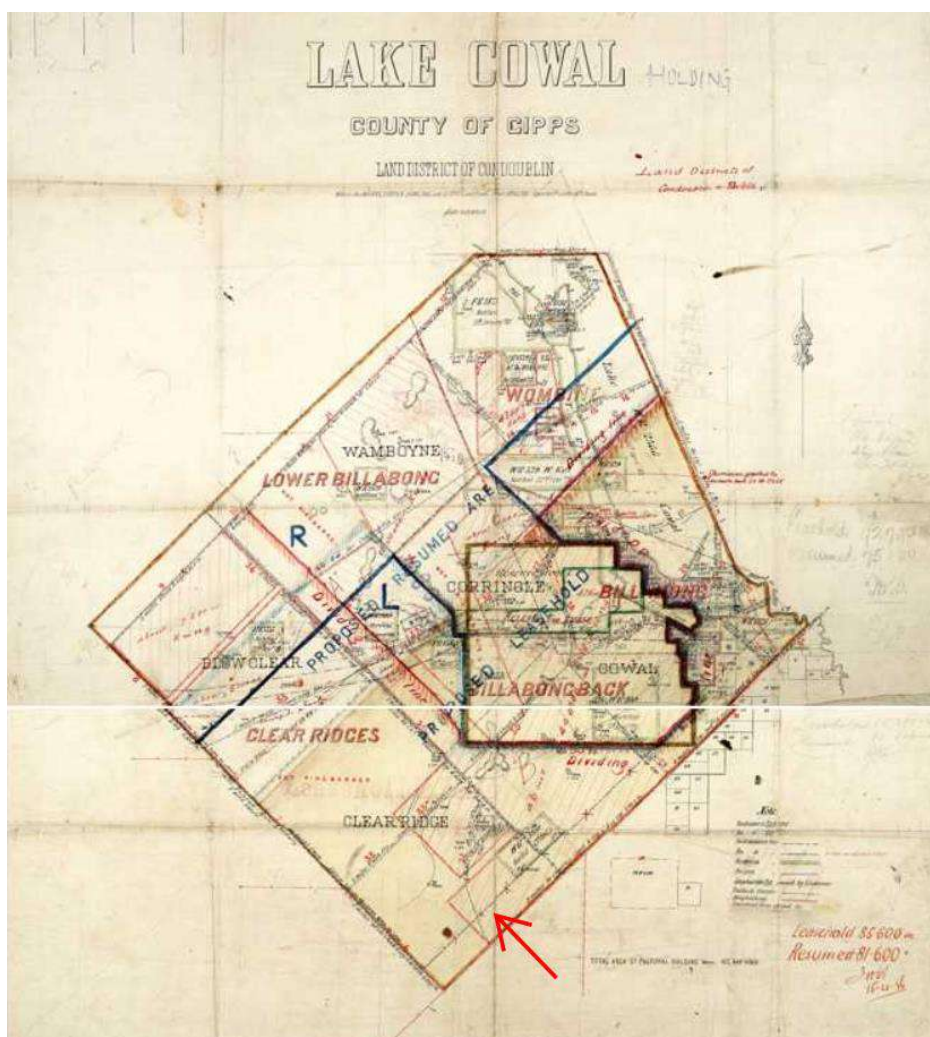
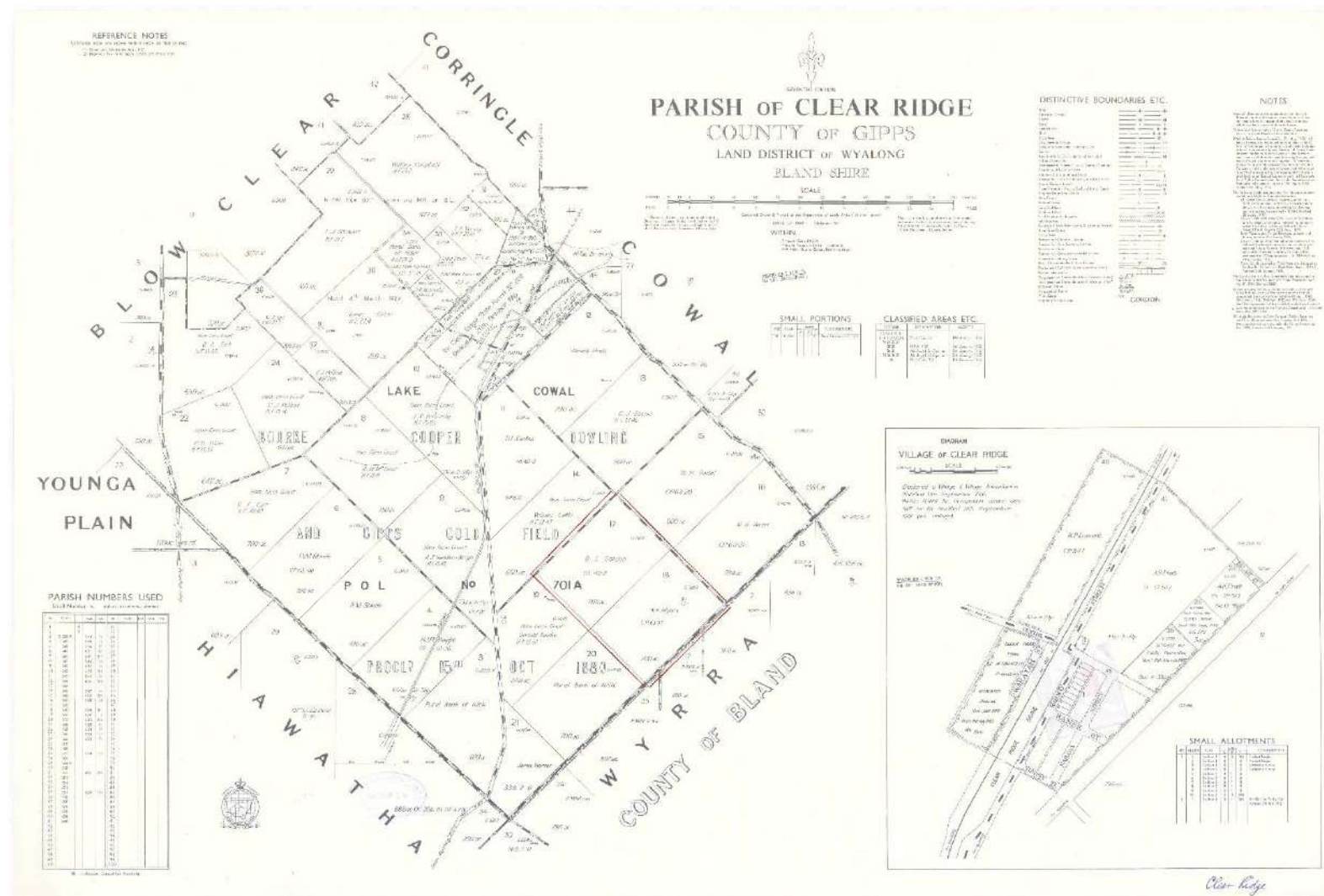


Figure 4.2: 1913 parish map, study area in red



5.0 ABORIGINAL CONTEXT

5.1 Aboriginal histories of the locality

Traditional Aboriginal tribal boundaries within Australia have been reconstructed, primarily, based on surviving linguistic evidence and are therefore only approximations. Social interaction, tribal boundaries and linguistic evidence may not always correlate, and it is likely boundaries and interaction levels varied and fluctuated over time. The study area is within the traditional boundaries of the Wiradjuri language group (Tindale 1974). Clusters of neighbouring clans which shared a common dialect and political and economic interests defined themselves from other clusters by a language name (Barwick 1984). The territories of these clans were often small, consisting of several kilometres of river frontage and some back country.

The Wiradjuri language group as described by Tindale (1974) as the largest tribal groupings in Australia. The territory extends from the Blue Mountains in the east, north to Nyngan and south to Albury. The Lachlan and Macquarie Rivers were a rich resource that provided food and transport. The food from the rivers was supplemented with kangaroos, wallabies, bandicoots, emus, turkeys, snakes and lizards, especially in those seasons when people moved from the rivers into the ranges or plains. Bulrush roots, grass seeds, daisy yams, along with roots and tubers were also a subsistence in their diet (Tindale 1974). Trees in the area not only provided food and fuel but were also used for the manufacture of tools and implements. For example, spears, axe hafts, shields, and digging sticks. Bark was used to build houses, make canoes, coolamons and other containers.

The first recorded contact between the Wiradjuri people and colonists occurred at Bathurst on the Macquarie River where Governor Lachlan Macquarie met a group of senior Wiradjuri men wearing possum-skin cloaks (Mitchel 1839). The gold rush of the 1850s in the eastern Wiradjuri lands saw the local non-Aboriginal population around Orange and Bathurst boom, becoming one of the most densely populated areas in the state. The diseases brought by colonists were noncompatible with the Aboriginal people, which would have spread well beyond the new colony's population centres. This, combined with the pastoral settlement of the slopes and plains that had begun some decades earlier, displaced many Wiradjuri placing pressure on the traditional systems of cosmology and economy (Niche 2018).

5.2 Aboriginal Heritage Information Management System

The location of Aboriginal sites is considered culturally sensitive information. It is advised that this information, including the Aboriginal Heritage Information Management System (AHIMS) data appearing on the heritage map for the proposal be removed from this report if it is to enter the public domain.

An extensive search of the AHIMS database was undertaken by Anna Darby on the 17 September 2018 (AHIMS search ID 370985). An area of approximately 2,500 km square was included in the search. The AHIMS search provides archaeological context for the area and identifies whether any previously recorded Aboriginal sites are located within or near the study area. The parameters of the search were as follows:

GDA 1994 MGA 55	505029 – 555029 m E 6233873 – 6283873 m S
Buffer	0 m
Number of sites	115

A total of 115 Aboriginal sites were identified in the extensive AHIMS search area. The frequency of recorded site features is summarised in Table 5.1. A registered Aboriginal site is made up of one or more features and these features should not be confused with registered Aboriginal site. OEH lists 20 standard site features that can be used to describe a site registered with AHIMS. For the 115 sites within the search area, ten combinations of site features were recorded. The majority of recorded site features are artefacts (n=64), with hearths (n=22) the second highest feature. One site was recorded as restricted, communications with OEH determined that the restricted site was not in the study area.

Table 5.1: Frequency of site features from AHIMS data

Site Feature	Frequency	Percentage (%)
Artefact	64	55.7
Hearth	22	19.1
Modified Tree (Carved or Scarred)	15	13.0
Artefact, Hearth	7	6.1
Artefact, Modified Tree (Carved or Scarred)	2	1.7
Artefact, Stone Quarry	1	0.9
Burial, Artefact	1	0.9
Grinding Groove	1	0.9
Grinding Groove, Water Hole	1	0.9
Restricted	1	0.9
<i>Total</i>	<i>115</i>	<i>100</i>

The distribution of recorded sites within the study area are shown in Figure 5.1 and Figure 5.2. No Aboriginal sites were recorded within the study area, a description of the closest recorded Aboriginal site to the study area is below.

TL8 (AHIMS ID 43-4-0036)

This site is the closest recorded Aboriginal site to the study area, approximately 5 km north-east of the study area. This site was recorded in 1997 as an artefact located 50 m from the bank of Sandy Creek.

Figure 5.1: Distribution of AHIMS sites within the extensive search area

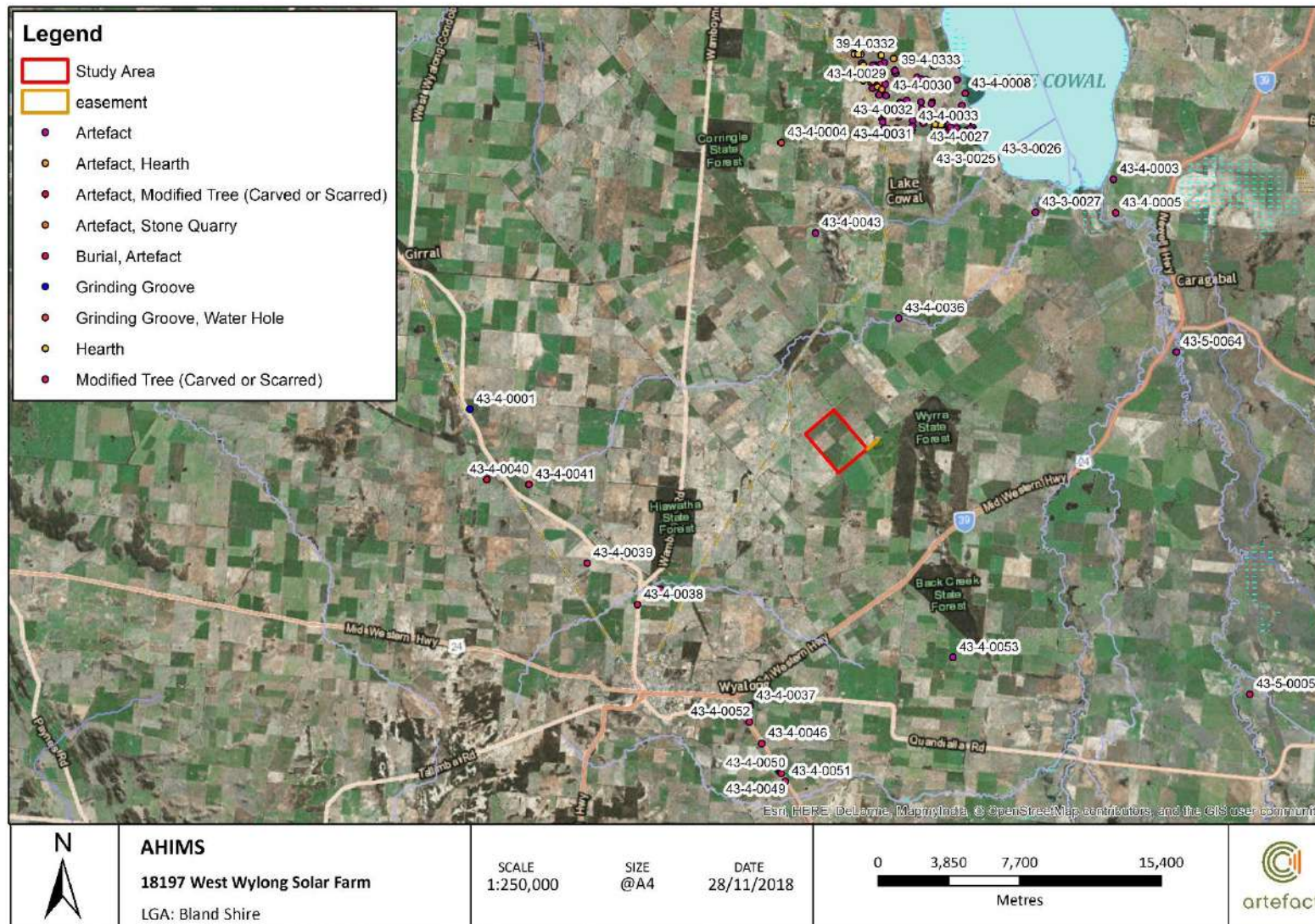
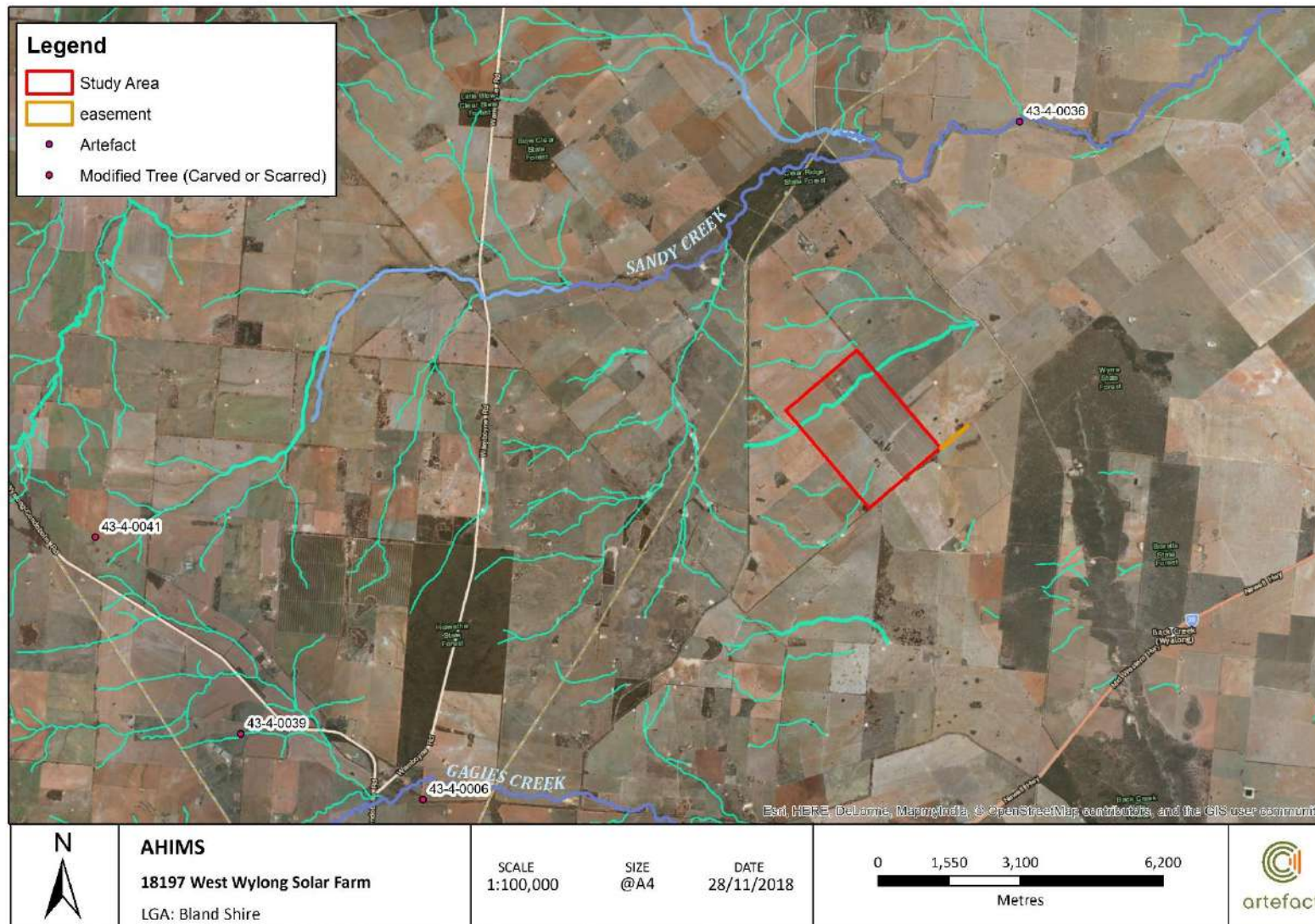


Figure 5.2: AHIMS sites in close proximity to the study area



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5.3 Previous archaeological assessments

Very little archaeological research has been undertaken within the region, except for research undertaken in the distinct environmental context around Lake Cowal, approximately 15 km to the northeast of the study area. As a result, predictions are difficult to make and very preliminary in nature.

A full description of previous studies was provided in the ASR (Artefact Heritage 2018a). Table 5.2 provides a summary of previous studies within close proximity of the study area. Overall, the results of the previous Aboriginal archaeological investigations within the wider area have identified that there is low potential for intact Aboriginal archaeological deposits to be identified due to high levels of past disturbance.

Table 5.2: Summary of previous studies

Author and date	Title
Niche 2017	Lake Cowal, Cowal Gold Operations, Aboriginal Cultural Heritage Assessment. Report to Evolution Mining Pty Ltd.
SKM 2013	Oakover Pavement Reconstruction Project, Goldfields Way, West Wyalong. Aboriginal archaeological survey. Report to Roads and Maritain Services.
Colin Pardoe Bio-Anthropology & Archaeology 2013	Cowal Gold Mine Extension Modification, Aboriginal Cultural Heritage Assessment, Report to Barrick (Cowal) Limited
Archaeological Consulting Services 1999	Barmedman Bridge Replacement, Main Road 57 between Temora and West Wyalong, Western NSW, Aboriginal Heritage Assessment

5.4 Predictive model

Based on the background environment and previous archaeological assessments the following conclusions can be made regarding the archaeological sensitivity of the study area:

- The study area comprises of a plain landform with erosional soil landscapes (Spy Hill and Wah Way) that over time would have experienced topsoil loss.
- Due to the underlying geology within the study area it would be unlikely for grinding groves to occur
- Artefacts will mostly likely occur within 200 m of permanent water sources; the study area contains an ephemeral waterway.
- Aerials and historic accounts of the study area show that ploughing is common in the area. This practice contributed to soil loss and would have disturbed the context of archaeological sites by churning the soil.
- Historical clearing may have removed all mature trees that scarring would have occurred on.

Based on the level of disturbance within the study area noted above it is considered unlikely that intact archaeological deposits will be present within the study area. The study area is therefore considered to be of low to moderate archaeological sensitivity.

6.0 ARCHAEOLOGICAL SURVEY

6.1 Aims

The aims of the archaeological survey were to:

- Cover a representative sample of the study area that will potentially be impacted by the proposed works
- Reinspect any previously registered sites
- Record any new Aboriginal objects or sites observed during the survey
- Identify areas of potential archaeological deposit (PAD) that may be present in areas that have had no or minimal disturbance
- Liaise with the West Wyalong LALC regarding the proposed works and the archaeological potential of the study area
- Collect information to ascertain whether further archaeological investigation is required.

6.2 Timing and personnel

The archaeological survey was conducted over three days from 9 October to 11 October 2018. Personnel and timing for the archaeological survey are presented in Table 6.1.

Table 6.1: Timing and personnel for the archaeological survey

Participant	Organisation	Role	Date of participation
Michael Lever	Artefact Heritage	Senior Heritage Consultant	9 October to 11 October 2018
Anna Darby	Artefact Heritage	Heritage Consultant	9 October to 11 October 2018
Braydn Davis	West Wyalong Land Council	Field Officer	9 October 2018
Linton Howarth	West Wyalong Land Council	Field Officer	9 October to 11 October 2018
Jesse Hampton	West Wyalong Land Council	Field Officer	10 to 11 October 2018
Lee Hampton	West Wyalong Land Council	Field Officer	11 October 2018

6.3 Survey strategy and methodology

The study area is large comprising 560 ha and the powerline easement (2.34 ha). Full survey coverage of the study area was not practicable therefore a survey sampling strategy was required. A sample survey is acceptable, with justification, under the Code of Practice.

The study area where the solar farm will be located comprises a single low lying and mildly sloping landform. Survey units (SUs) were defined arbitrarily for the survey methodology and do not reflect changes in topography.

An initial intensive survey strategy was adopted to robustly assess a representative area. This initial strategy was to walk a series of transects at 15 m apart across each survey unit in parallel lines at a pace that allowed opportunity to identify any features or objects. At the end of each transect the team would reposition along a new transect line at the same spacing and walk on the reverse compass bearing. This strategy was implemented for survey unit one (SU1) and the easement (Figure 6.1). This resulted in an effective total survey of these areas.

The sampling strategy employed for survey units two (SU2) and three (SU3) was less intensive and employed transects with four personnel in pairs spaced 10 m apart (Figure 6.1). Each pair of transects was separated by 100 m.

The survey units were traversed on foot. A handheld Global Positioning System (GPS) was used to track the path of the survey team and record the coordinates of survey transects. The coordinate system projection used for all site recording was GDA94 MGA 56. A total linear distance of approximately 70km was covered during the three days of survey.

All ground exposures were examined for Aboriginal objects (stone artefacts, imported shell, or other traces of Aboriginal occupation). Old growth trees were examined for signs of cultural scarring and marking. A photographic record was kept during the survey. Photographs were taken to record aspects of survey units including vegetation and disturbance. Scales were used for photographs where appropriate. All visible surfaces were inspected, and old growth native trees were similarly targeted for evidence of cultural modification. Local landforms, evidence of land use history and previous research was used to inform assessments of archaeological potential.

6.4 Survey results

The survey identified four new Aboriginal sites within the study area:

- West Wyalong Solar Farm Isolated Find 01 (WWSF IF01 AHIMS ID 43-4-0056)
- West Wyalong Solar Farm Isolated Find 02 (WWSF IF02 AHIMS ID 43-4-0071)
- West Wyalong Solar Farm Artefact Scatter 01 (WWSF AS01 AHIMS ID 43-4-0057)
- West Wyalong Solar Farm Bee Tree (WWSF Bee Tree AHIMS ID 43-4-0058)

WWSF IF01 (AHIMS ID 43-4-0056) consists of a single chert flake on soils that had been disturbed by ploughing. WWSF IF02 (AHIMS ID 43-4-0071) consists of a single silcrete flake that was observed on ploughed soil within the wheat crop in the eastern portion of SU1. WWSF AS01 consists of a scatter of 14 isolated lithic artefacts, including a grinding stone fragment and a basalt manuport. Artefacts appeared concentrated around the south western ephemeral drainage line. WWSF Bee Tree (AHIMS ID 43-4-0058) is a culturally modified Belah tree and is the result of removing bark and cutting into heartwood to potentially place burning embers inside the tree. This was potentially in order to smoke out bees enabling the removal of honey further up the tree. Further details regarding the sites that were identified during survey can be found in the ASR (Artefact Heritage 2018a).

Figure 6.1: Survey units within the study area



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Figure 6.2: Location of sites identified through the survey

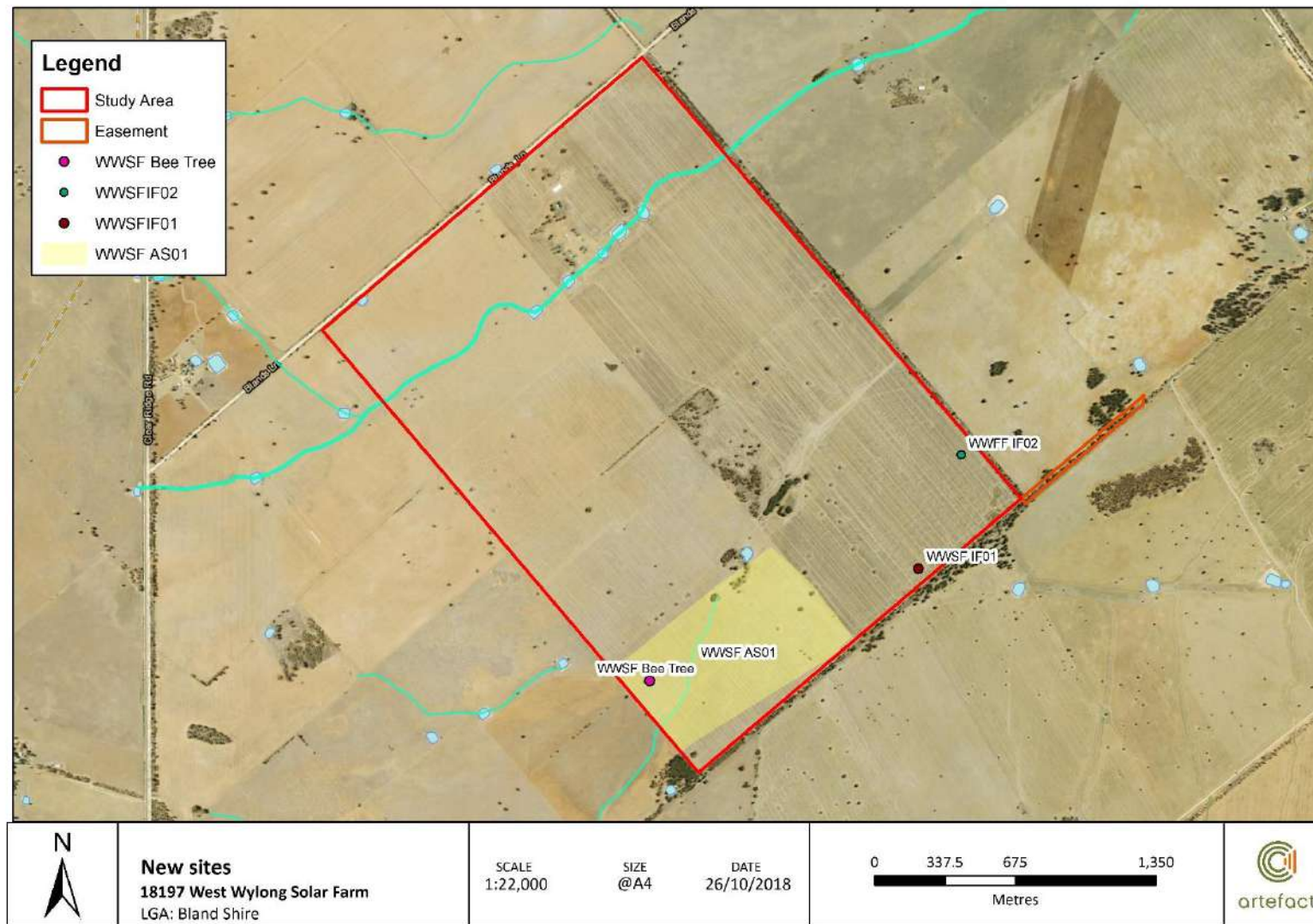
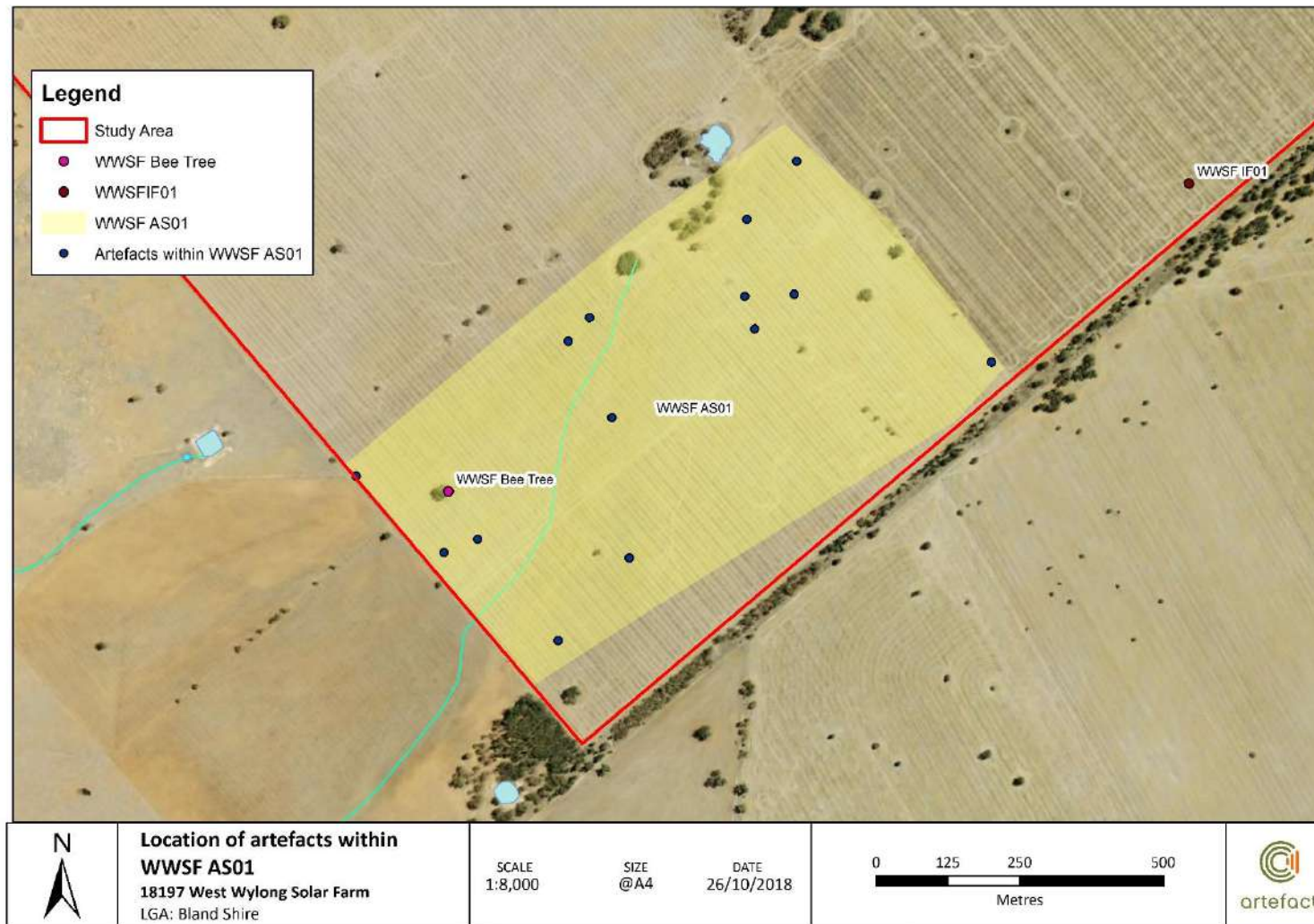


Figure 6.3: Location of artefacts within WWSF AS01 (AHIMS ID 43-4-0057)



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7.0 ABORIGINAL CULTURAL HERITAGE ASSESSMENT

7.1 Methodology

The cultural assessment in this report includes information collected through desktop assessment, consultation during the survey and through the consultation period for the RAP review of the ASR (Artefact Heritage 2018a). This information was collected by Anna Darby (Heritage Consultant, Artefact Heritage).

7.2 Cultural landscape

The World Heritage Convention of United Nations Educational, Scientific and Cultural Organisation (UNESCO) defines a cultural landscape as one which has 'powerful religious, artistic or cultural associations of the natural element rather than material cultural evidence, which may be insignificant or even absent' (UNESCO 1991). The relationship between Aboriginal Australians and the land is conceived in spiritual terms rather than primarily in material terms (Andrews et al 2006). Aboriginal cultural knowledge has been defined as:

Accumulated knowledge which encompasses spiritual relationships, relationships with the natural environment and the sustainable use of natural resources, and relationships between people, which are reflected in language, narratives, social organisation, values, beliefs and cultural laws and custom (Andrews et al 2006).

Aboriginal cultural knowledge was traditionally bequeathed through oral traditions from generation to generation. The impacts of colonialism on Aboriginal people were immense including decimation of population and family and community disruption. This disruption resulted in much of the detailed knowledge and understanding of many of the elements of the cultural landscape being lost from the Aboriginal community. Nonetheless many Aboriginal people maintain a strong connection to the land of their ancestors and collectively possess a wealth of knowledge passed down through the generations.

7.3 Identified Aboriginal cultural heritage values

Table 7.1 provides a summary of the general Aboriginal cultural heritage values associated with the study area.

Table 7.1: Cultural heritage values identified for the study and surroundings:

Cultural heritage value	Description	Source
Scarred trees	Occupation of the land by the Wiradjuri can be observed through the presence of modified trees and the remains of campsites. Carved trees are more commonly found around the Macquarie and Lachlan rivers. Campsites, which indicate seasonal occupation by small groups, have been found on river flats, open land and by the rivers.	Bland Shire Council 2015

Cultural heritage value	Description	Source
Waterways	The Wiradjuri people generally moved around in small groups, using the river flats, open lands and waterways with some regularity through the seasons as indicated by debris that has accumulated in these areas	Bland Shire Council 2015
Native flora and fauna	The presence of flora and fauna species has been stated as significant for their uses as bush food or bush medicine	Clean TeQ 2018
Archaeological material	The Aboriginal representatives viewed all Aboriginal cultural heritage sites as significant because they preserve a record of how and where people lived in the past	Clean TeQ 2018

8.0 SIGNIFICANCE ASSESSMENT

A total of four Aboriginal sites have been identified from the survey. A significance assessment of the scientific, social, historic and aesthetic values of the study area is included below.

8.1 Significance assessment criteria

An assessment of the cultural heritage significance of an item or place is required in order to form the basis of its management. The Guide (OEH 2011: 10) provides guidelines, in accordance with the Burra Charter (Australia ICOMOS 2013) for significance assessment with assessments being required to consider the following criteria:

- Social values – does the area have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons
- Historic values – is the area important to the cultural or natural history of the local area and/or region and/or state
- Scientific values - does the area have the potential to yield information that will contribute to an understanding of the cultural and natural history of the local area and/or region and/or state
- Aesthetic values – is the area important in demonstrating aesthetic characteristics in the local and/or region and/or state.

Scientific values should be considered in light of the following criteria:

- Research potential - does the evidence suggest any potential to contribute to an understanding of the area and/or region and/or state's natural and cultural history?
- Representativeness - how much variability (outside and/or inside the subject area) exists, what is already conserved, how much connectivity is there?
- Rarity - is the subject area important in demonstrating a distinctive way of life, custom, process, land-use, function or design no longer practised? Is it in danger of being lost or of exceptional interest?
- Education potential - does the subject area contain teaching sites or sites that might have teaching potential?

It is important to note that heritage significance is a dynamic value.

8.2 Significance assessment

8.2.1 Social and cultural value

Social/cultural heritage significance should be addressed by the Aboriginal people who have a connection to, or interest in, the area. As part of the consultation process the registered Aboriginal stakeholder groups were asked to provide appropriate information on the cultural significance of the study area.

The study area contains several cultural values, such as a scarred tree, native flora and fauna and is in close proximity to the ephemeral drainage line. Archaeological material is also an important cultural value as all Aboriginal cultural heritage sites are significant because they preserve a record of how and where people lived in the past.

8.2.2 Historic value

Historic values refer to the association of the place with aspects of Aboriginal history. Historic values are not necessarily reflected in physical objects, but may be intangible and relate to memories, stories or experiences.

The study area is not known to be associated with any people, events or activities of historical importance to the Aboriginal community. The relatively small assemblage size recovered within the study area suggests that it was not the location of any significant event or activity in the pre-contact or post-contact past. At this level of assessment, the study area is considered not to be of historic significance.

8.2.3 Aesthetic value

This refers to the 'sensory' value of a place, and can include aspects such as form, texture, and colour, and can also include the smell and sound elements associated with use or experience of a site (Australian ICOMOS 2013). Aesthetic significance can be closely linked to the social value of a site.

8.2.4 Scientific value

A summary of the archaeological significance of sites identified during survey is presented in Table 8.1.

West Wyalong Solar Farm Isolated Find 01 (WWSF IF01) (AHIMS ID 43-4-0056)

WWSF IF01 consists of a single chert flake on a disturbed context due to the wheat crop. Surface visibility in the area was high. Due to the level of disturbance and the singularity of artefact the site was assessed as demonstrating low scientific value.

West Wyalong Solar Farm Isolated Find 02 (WWSF IF02) (AHIMS ID 43-4-0071)

WWSF IF02 consists of a single silcrete flake observed within the wheat crop in the eastern portion of SU1. The site was assessed as having little to no intact archaeological deposit and low archaeological significance due to the level of disturbance evident to the surrounding soils. Silcrete is abundant in the surrounding areas. The material within the site is not considered rare and has limited research potential.

West Wyalong Solar Farm Artefact Scatter 01 (WWSF AS01) (AHIMS ID 43-4-0057)

WWSF AS01 consists of 14 isolated lithic artefacts concentrated around the south western ephemeral drainage line. The site was assessed as having moderate research potential and representative value due to the relatively high number of artefacts in an area for which predictive modelling had indicated low potential. The presence of a basalt manuport indicates that exotic materials were subject to considerable transport. The presence of a grinding stone fragment may indicate that Aboriginal people used the location for more extended episodes of camping than was suggested by the predictive model. As a result, the site was assessed as having moderate educational potential with moderate to high rarity.

West Wyalong Solar Farm Bee Tree (WWSF Bee Tree) (AHIMS ID 43-4-0058)

WWSF Bee Tree is located in the south east of the study area within the boundaries of West Wyalong Solar Farm Artefact Scatter 01 (WWSF AS01) (AHIMS ID 43-4-0057). The relationship, if any, between the bee tree and the nearby artefact scatter WWSF AS01 is unknown. Culturally modified trees are a rarity within the local modern landscape due to agricultural clearing activities and the

limited life span of trees. The site is therefore assessed as of high potential and significance across the four assessment categories.

Table 8.1: Summary of scientific significance

Site name (AHIMS ID)	Research potential	Representativeness	Rarity	Education potential	Overall significance assessment
WWSF IF01 (43-4-0056)	Low	Low	Low	Low	Low
WWSF IF02 (43-4-0071)	Low	Low	Low	Low	Low
WWSF AS01 (43-4-0057)	Moderate	Moderate	Moderate-High	Moderate	Moderate
WWSF Bee Tree (43-4-0058)	Moderate	High	High	High	High

8.3 Statement of significance

Overall, the sites located within the study area are considered to be of a moderate level of significance at the local level. The sites are of moderate social significance. The sites are of overall low-moderate scientific significance, with only the Bee Tree being of high scientific significance.

9.0 IMPACT ASSESSMENT

9.1 Guiding principles

The overall guiding principle for cultural heritage management is that where possible Aboriginal sites should be conserved. If conservation is not practicable, measures should be taken to mitigate impacts to Aboriginal sites. The nature of the mitigation measures recommended is based on the assessed significance of the sites, existing permits across the study area and the impact assessment.

The final recommendations would also be informed by cultural significance, which will be discussed by the Aboriginal community in their responses during the next stage of consultation.

OEH also requires consideration of ecologically sustainable development, including the following two key principles:

- The precautionary principle. Full scientific certainty about the threat of harm should never be used as a reason for not taking measures to prevent harm from occurring.
- The principle of inter-generational equity. The present generation should make every effort to ensure that the health, diversity and productivity of the environment – which includes cultural heritage – is available for the benefit of future generations.

9.2 Potential Aboriginal heritage impact

The definition of harm is limited to impacts which:

...destroys, defaces, damages an object or place or in relation to an object – moves the object from land on which it has been situated. (s5 NPW Act).

A summary of the impacts to the sites identified during the survey are provided in Table 9.1. WWSF Bee Tree (AHIMS ID 43-4-0058) has been identified as being of high archaeological sensitivity and is within close proximity to the impact zone of the proposed works. It is likely that the proposed works will result in an indirect impact to the site, though the movement of equipment and vehicles across the trees root zone during construction and operation.

Table 9.1: Impact assessment

Site name (AHIMS ID)	Type of harm	Degree of harm	Consequence of harm
WWSF IF01 (AHIMS ID 43-4-0056)	Direct	Total	Total loss of value
WWSF IF02 (AHIMS ID 43-4-0071)	Direct	Total	Total loss of value
WWSF AS01 (AHIMS ID 43-4-0057)	Direct	Partial	Partial loss of value
WWSF Bee Tree (AHIMS ID 43-4-0058)	Indirect	Partial	Partial loss of value

9.2.1 Mitigation measures

WWSF IF01 (AHIMS ID 43-4-0056) and WWSF IF02 (AHIMS ID 43-4-0071) are isolated artefacts identified within disturbed contexts and have been assessed as being of low archaeological significance. It is recommended that the artefacts at WWSF IF01 (AHIMS ID 43-4-0056) and WWSF IF02 (AHIMS ID 43-4-0071) be collected prior to commencement of construction.

WWSF AS01 (AHIMS ID 43-4-0057) has been assessed as being of moderate significance due to the range of raw materials and the relatively elevated numbers of artefacts. It is recommended that those of the artefacts at WWSF AS01 (AHIMS ID 43-4-0057) which will be impacted by the proposed solar farm should be collected prior to commencement of construction. Artefacts at WWSF AS01 (AHIMS ID 43-4-0057) which will not be impacted by the proposed solar farm should be incorporated into a NO GO zone, together with WWSF Bee Tree (see next item).

WWSF Bee Tree (AHIMS ID 43-4-0058) is a culturally modified tree potentially resulting from scarring for the acquisition of honey and has been identified as having high scientific significance. The site has been assessed as being of moderate archaeological sensitivity and is within close proximity to the impact zone of the proposed works. It is recommended that a NO GO zone including a physical barrier be placed around WWSF Bee Tree (AHIMS ID 43-4-0058) at a distance determined by an arborist as sufficient to protect the tree's long term viability.

9.3 Ecologically Sustainable Development principles

The Guide (OEH 2011) specifies that Ecological Sustainable Development (ESD) principles must be considered when assessing harm and recommending mitigation measures in relation to Aboriginal objects.

The following relevant ESD principles are outlined in Section 3A of the EPBC Act:

- Decision-making processes should effectively integrate both long term and short term economic, environmental, social and equitable considerations (the 'integration principle')
- If there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation (the 'precautionary principle')

The present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations (the 'principle of intergenerational equity').

9.3.1 The precautionary principle

If there are threats of serious or irreversible environmental damage, lack of full scientific confidence should not be used as a reason for postponing measures to prevent environmental degradation (the 'precautionary principle'). Current and previous assessments of the study area have identified the study area as heavily disturbed and subsequently demonstrating low archaeological potential. Due to the regional nature of the cultural values associated with West Wyalong the proposed development will not result in significant impacts to the cultural values of the region.

9.3.2 Conservation of biodiversity

Cultural values of biodiversity are intertwined with the lives of Aboriginal people and their use of the landscape. Biological impacts of the proposal are considered in separate technical report.

9.4 Cumulative impacts

A cumulative impact is an impact on Aboriginal cultural heritage resulting from the incremental impact of the action/s of a development when added to other past, present and reasonably foreseeable future actions.

While there is no currently available evidence of intangible cultural heritage within the study area, the study area contains identifiable tangible heritage values. To mitigate against the loss of heritage values, as a result of past, present and future developments, it is recommended that a heritage interpretation strategy be implemented.

Artefact sites comprise 55 per cent of the sites registered on AHIMS within a 25 km radius of the study area and are common in the region. Of the registered Aboriginal sites, the majority have not been destroyed (Figure 9.1). The identified sites will be impacted by the proposal and have been assessed in light of its relationship to the archaeological landscape as a whole. The removal of WWSF IF01 (AHIMS ID 43-4-0056), WWSF IF02 (AHIMS ID 43-4-0071) and WWSF AS01 (AHIMS ID 43-4-0057) will not result in a significant cumulative impact.

Scarred trees are rare in the regional context and have been assessed as possessing cultural value. Modified tree sites comprise 13 per cent of the sites registered within a 25 km radius of the study area. The removal of WWSF Bee Tree (AHIMS ID 43-4-0058) would have a negative impact on the archaeological landscape and should remain within the landscape.

The assessment of cumulative impacts is based on the AHIMS search data in section 5.2. The AHIMS search listed 94, valid, registered sites within 25 km of the study area. If the majority of those AHIMS sites are destroyed, then artefact sites would no longer be common to the area.

Figure 9.1: Status of AHIMS sites within the vicinity of the study area

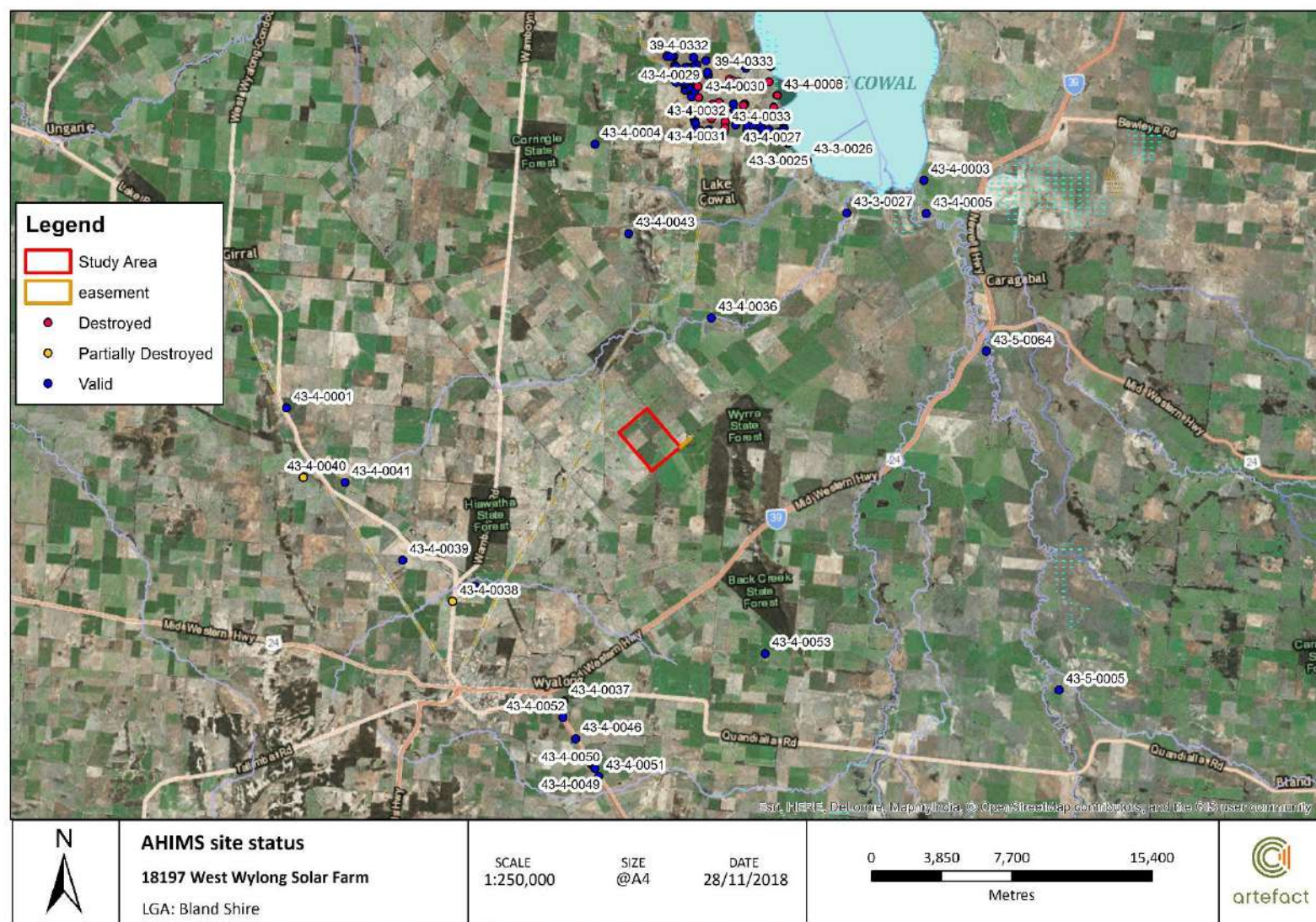


Figure 9.2: Current design plans (client version REV14) in relation to Aboriginal sites identified in the study area by the ASR

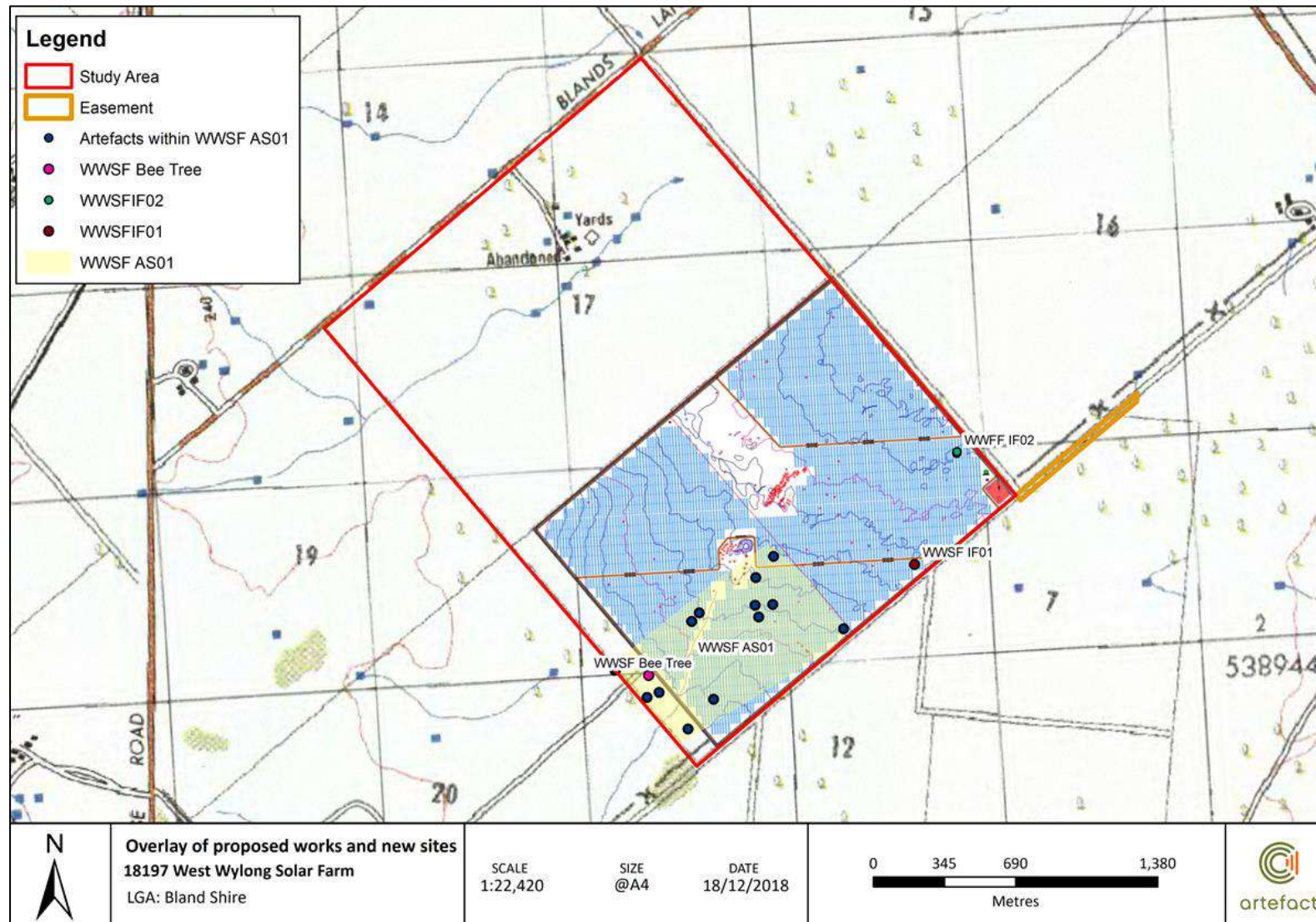
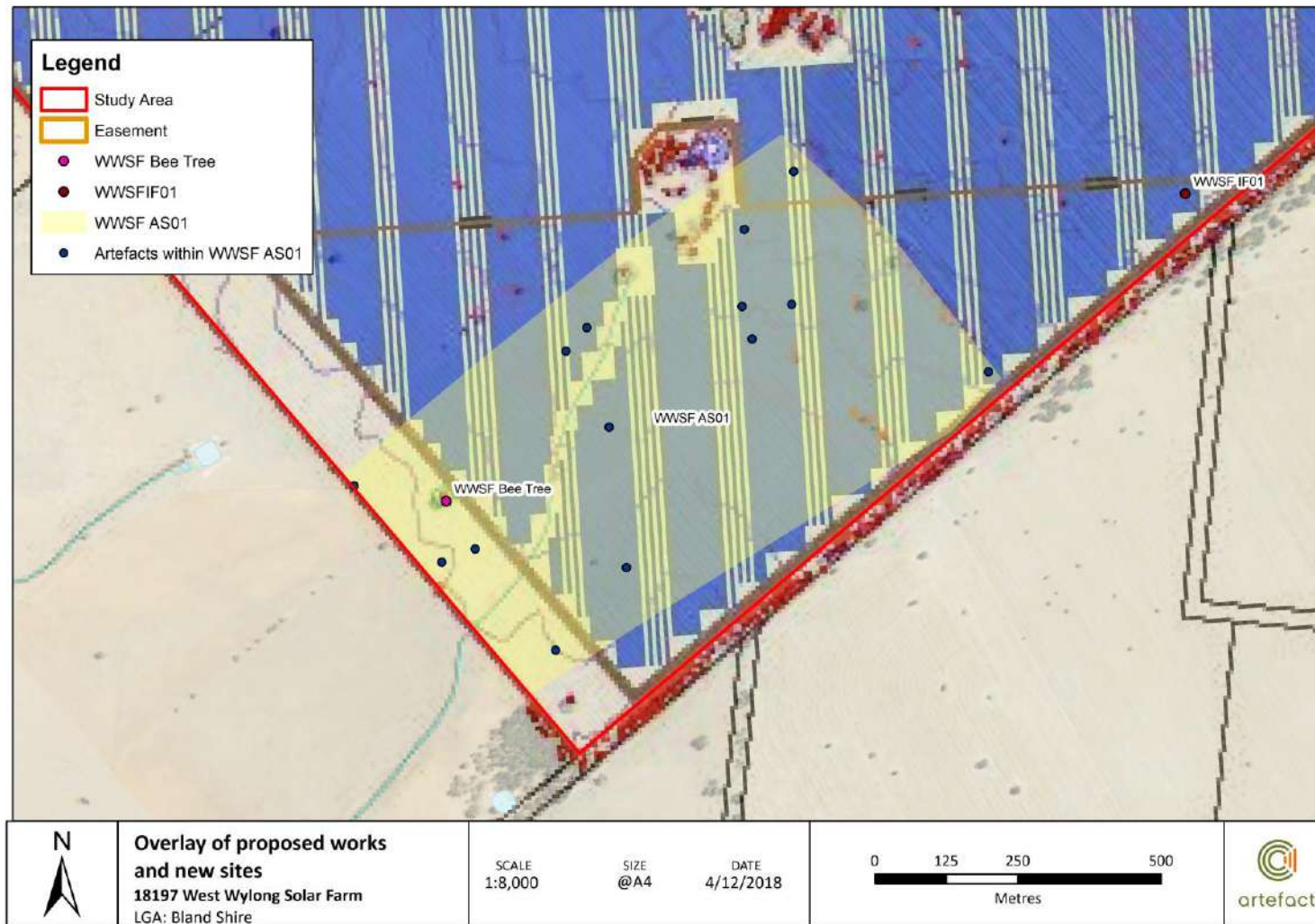


Figure 9.3: Overlay of impacts to WWSF AS01 (AHIMS ID 43-4-0057) and WWSF Bee Tree (AHIMS ID 43-4-0058)



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10.0 MANAGEMENT AND MITIGATION MEASURES

10.1 Site conservation

The overall guiding principle for cultural heritage management is that where possible Aboriginal sites should be conserved.

Where unavoidable impacts occur then measures to mitigate and manage impacts are proposed. Mitigation measures primarily concern preserving the heritage values of sites beyond the physical existence of the site. The most common methods involve detailed recording of Aboriginal objects, archaeological test and salvage excavations, artefact analysis and, where appropriate, reburial of Aboriginal objects in a location determined by the registered Aboriginal parties.

Mitigation measures vary depending on the assessment of archaeological significance of a particular Aboriginal site and are based on its research potential, rarity, representatives and educational value. In general, the significance of a site would influence the choice of preferred conservation outcomes and appropriate mitigation measures, usually on the following basis:

- Low archaeological significance- Conservation where possible, but usually no mitigation required if impacts are unavoidable.
- Moderate archaeological significance- Conservation where possible. If conservation is not practicable, salvage excavations or similar mechanisms determined in consultation with the Aboriginal community may be necessary.
- High archaeological significance- Conservation as a priority. Only if all practicable alternatives have been exhausted would impacts be considered justified. Comprehensive salvage excavations may be necessary.

Table 10.1: Summary of recommended mitigation measures

Site name (AHIMS ID)	Degree of harm	Mitigation measure
WWSF IF01 (43-4-0056)	Total	<ul style="list-style-type: none"> • Surface collection of stone artefacts prior to construction • Cultural heritage awareness training to highlight Aboriginal significance of area and process for unexpected finds
WWSF IF02 (43-4-0071)		<ul style="list-style-type: none"> • Detailed analysis and recording of all collected stone artefacts and collation of data in a salvage report • Retention of artefacts by West Wyalong LALC under a Care Agreement

Site name (AHIMS ID)	Degree of harm	Mitigation measure
WWSF AS01 (43-4-0057)	Partial	<ul style="list-style-type: none"> • Surface collection of all known stone artefacts that will be impacted by the proposed development prior to construction • NO GO zones for the lifetime of the solar farm for known stone artefacts that will not be impacted by the proposed development • NO GO zones to be identified on all construction plans and plans to be kept on site at all times for reference. • Cultural heritage awareness training to highlight Aboriginal significance of area, identification of NO GO zones and processes for unexpected finds. • Detailed analysis and recording of all collected stone artefacts and collation of data in a salvage report. • Retention of artefacts by West Wyalong LALC under a Care Agreement
WWSF Bee Tree (43-4-0058)	Minimal	<ul style="list-style-type: none"> • NO GO zone for the lifetime of the proposed solar farm to be constructed around the tree in consultation with an arborist • Reassessment of the protection zone surrounding the tree at the conclusion of the operation of the proposed solar farm. • Tree health to be maintained during construction and operation of the proposed solar farm. • Cultural heritage awareness training to highlight the Aboriginal significance of area, identification of NO GO zones and processes for unexpected finds.

10.2 Surface collection

To prevent the unnecessary destruction and loss of archaeological material located on the ground surface, the RAPs must be given the opportunity to conduct a surface collection of known Aboriginal objects across the extents of the following sites that will be impacted by the proposed solar farm:

- WWSF IF01 (AHIMS ID 43-4-0056)
- WWSF IF02 (AHIMS ID 43-4-0071)
- WWSF AS01 (AHIMS ID 43-4-0057)

Aboriginal Site Impact Recording Forms must be completed and submitted to OEH following impacts to these sites resulting from surface collection of artefacts.

10.3 Discovery of human remains

If any human remains are discovered on or under the land, the following actions must be taken:

- Not further harm to these remains;
- Immediately cease all works at the particular location;
- Secure the area so as to avoid further harm to the remains;
- Notify the local police and OEH's Environment Line on 131 555 as soon as practicable and provide any available details of the remains and their location; and

- Not recommence any work at the particular location unless authorised in writing by OEH

10.4 Changes to the proposed works

This ACHAR is based upon the most recent information made available to Artefact Heritage as of the date of preparation of this report. Any changes made to the proposal should be assessed by an archaeologist in consultation with the registered Aboriginal stakeholder groups. Any changes that may impact on Aboriginal cultural heritage may warrant further investigation and may result in changes to the recommended management and mitigation measures.

10.5 Management of Aboriginal objects

Consultation with RAPs comprised two Aboriginal Focus Group meetings and a 28-day review by RAPs of the ASR and this document. Through this process of consultation, RAPs stated a preference for lithic Aboriginal objects recovered during salvage of sites to be impacted by the proposal to be held as a teaching collection at the West Wyalong LALC. Lithic Aboriginal objects that will not be impacted by the proposal are to be fenced off from the proposed development. Lightsource Development Services Australia have amended the design of the solar farm to avoid direct impact to WWSF Bee Tree (AHIMS ID 45-4-0058). An arborist will determine an appropriate buffer around WWSF Bee Tree (AHIMS ID 45-4-0058), and this will also be fenced off from the proposed development.

10.6 Ongoing consultation with Aboriginal stakeholder groups

Consultation with the registered Aboriginal stakeholders would continue throughout the life of the project, as necessary. Ongoing consultation with registered Aboriginal stakeholders will take place throughout all facets of the project, including in the event of any unexpected Aboriginal objects being identified during works. To keep consultation current, the registered Aboriginal parties should be sent an update on the project every six months through the construction of the proposed solar farm.

11.0 RECOMMENDATIONS

The following recommendations are based on consideration of:

- Statutory requirements under the NPW Act
- The results of the ACHAR, ASR and AFG
- The interests of the Aboriginal stakeholder groups
- The likely impacts of the proposed development.

It was found that:

- Four newly identified sites were located during archaeological survey of the study area
- No areas of potential archaeological deposit were identified within the study area
- The proposed development will have a total impact and total loss of value on WWSF IF01 (AHIMS ID 43-4-0056) and WWSF IF02 (AHIMS ID 43-4-0071).
- The proposed developed will have a partial impact with partial loss of value on WWSF AS01 (AHIMS ID 43-4-0057).
- The proposed development will have an indirect impact on WWSF Bee Tree (AHIMS ID 43-4-0058).
- WWSF Bee Tree (AHIMS ID 43-4-0058) has been assessed as demonstrating high significance and archaeological potential
- WWSF AS01 (AHIMS ID 43-4-0057) has been assessed as demonstrating moderate significance and archaeological potential.
- WWSF IF01 (AHIMS ID 43-4-0056) and WWSF IF02 (AHIMS ID 43-4-0071) have been assessed as demonstrating low significance and archaeological potential.

The following recommendations are made:

- If changes are made to the proposed works which could impact locations outside of the current study area, further archaeological investigation may be required.
- All staff working within the study area must undergo cultural heritage training prior to commencing work on site. This training is to be conducted by the West Wyalong LALC.
- Following development consent, and prior to the proposed salvage collection of artefacts from sites WWSF IF01 (43-4-0056) and WWSF IF02 (43-4-0071) and part of site WWSF AS01 (43-4-0057), a Care Agreement under Section 85A of the NPW Act must be sought for the retention of these artefacts by the West Wyalong LALC.
- Following development consent and prior to construction of the proposed solar farm, surface collection must take place of all known artefacts within WWSF IF01 (AHIMS ID 43-4-0056) and WWSF IF02 (AHIMS ID 43-4-0071) that are to be impacted by the proposed solar farm.
- Following development consent and prior to construction of the proposed solar farm, surface collection must take place of all known artefacts within WWSF AS01 (AHIMS ID 43-4-0057) that are to be impacted by the proposed solar farm.

- The four artefacts within WWSF AS01 (AHIMS ID 43-4-0057) that will not be impacted by the proposed solar farm will not be collected.
- Artefact collection is to be conducted by qualified archaeologists with the Registered Aboriginal Parties.
- An Aboriginal Site Impact Recording Form (ASIRF) must be completed following any impacts to identified sites in the study area as a result of archaeological salvage or project construction.
- Artefacts will not be removed from the region by the participating archaeologists.
- The recording and preliminary analysis of collected artefacts must be conducted at the West Wyalong LALC immediately following collection.
- A report detailing the methodology and findings of the surface salvage must be produced by the participating archaeologists. This report must include detailed analysis of the retrieved artefacts.
- A NO GO zone is to be established for the lifetime of the solar farm. This is the area between the site boundary fence and the internal 2 m high security fence within which the WWSF Bee Tree (AHIMS ID 43-4-0058) and four artefacts from WWSF AS01 (AHIMS ID 43-4-0057) are located. The WWSF Bee Tree (AHIMS ID 43-4-0058) must have a buffer zone that protects the tree's dripline, or a greater area as directed by an arborist, sufficient to ensure the tree's long term viability.
- The location of the NO GO zone must be shown on all construction plans. Copies of plans showing the location of the NO GO zone must be kept on site for reference.
- Signage must be placed at the NO GO zone advising that it contains Aboriginal cultural heritage
- A maintenance / observation program of WWSF Bee Tree (AHIMS ID 43-4-0058) must be undertaken by the proponent to ensure the tree's long term viability.
- At the conclusion of the operation of the proposed solar farm and prior to decommissioning or to changes in land use the suitability of the NO GO zone must be reassessed
- Opportunity must be extended for representatives of the LALCs to observe the excavation of cable trenches in the study area to better inform their understanding of local soil conditions and the potential for Aboriginal cultural heritage.
- To keep consultation current, the Registered Aboriginal Parties should be sent an update on the project every six months during construction of the project.
- A Cultural Heritage Management Plan must be implemented to document the methodology and implementation of the ACHAR recommendations.
- Unexpected Finds: If any Aboriginal object is discovered and/or harmed in, or under the land, while undertaking the proposed development activities, the proponent must:
 - Not further harm the object;
 - Immediately cease all work at the particular location;
 - Secure the area so as to avoid further harm to the Aboriginal object;
 - Notify OEH as soon as practical on 131555, providing any details of the Aboriginal object and its location; and

- Not recommence any work at the particular location unless authorised in writing by OEH.
- If human remains are discovered on site, then all work surrounding the area must cease, and the area must be secured. The Applicant must notify the NSW Police and OEH as soon as possible following the discovery, and work must not recommence in the area until this is authorised by OEH.

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Department of Environment, Climate Change and Water [now OEH] 2010a. *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales*.

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Department of Environment, Climate Change and Water [now OEH] 2010c. *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales*

Office of Environment and Heritage 2011 *Guide to Investigating, assessing and reporting on Aboriginal cultural heritage in NSW: Part 6 National Parks and Wildlife Act 1974*

13.0 APPENDICES

Appendix 1 – Current consultation log

Appendix 2 – Full consultation records

Appendix 3 – AFG agenda, attendance and minutes

Appendix 4 – Archaeological survey report

Appendix 5 – AHIMS search Data

APPENDIX 1 – CURRENT CONSULTATION LOG

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/ response
AGENCY LETTERS 4.1.2 NOTIFICATION						
OEH Identification of Aboriginal parties	OEH - Griffith	J Norfolk	Artefact	email	10/10/2018	
LALC Identification of Aboriginal parties	West Wyalong LALC	J Norfolk	Artefact	email	10/10/2018	
BSC Identification of Aboriginal parties	Bland Shire Council	J Norfolk	Artefact	email	10/10/2018	
LLS Identification of Aboriginal parties	Riverina LLS	J Norfolk	Artefact	email	10/10/2018	
NNTT Identification of Aboriginal parties	NNTT	J Norfolk	Artefact	email	10/10/2018	
NTS Corp Identification of Aboriginal parties	NTS Corp	J Norfolk	Artefact	email	10/10/2018	
Registrar Identification of Aboriginal parties	Registrar	J Norfolk	Artefact	email	10/10/2018	
4.1.3 AD						
Koori mail advert		J Norfolk	Artefact	email	10/10/2018	In 17 October edition 687
Leader Wagga		J Norfolk	Artefact	online	10/10/2018	In 17 October paper
Agency Responses						
J Norfolk	Artefact	Andrew Fisher	OEH	email	11/10/2018	Provided RAP list
A Darby	Artefact	Ray Smith	BSC	email	12/10/2018	Suggested West Wyalong LALC
A Darby	Artefact	Jodie Rikiti	Registrar	email	12/10/2018	
A Darby	Artefact		NNTT	email	15/10/2018	
A Darby	Artefact	Rob Kelly	RLLS	email	16/10/2018	Suggested West Wyalong LALC

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/ response
RAP Expressions of Interest from Avert						
A Darby	Artefact	Lillie Carrol	DNC	email	18/10/2018	Registered interest
Invitation to Register 4.1.3						
West Wyalong Local Aboriginal Land Council		J Norfolk	Artefact	email	29/10/2018	Invitation to register for project sent
Murrin Bridge Local Aboriginal Land Council		J Norfolk	Artefact	email	29/10/2018	Invitation to register for project sent
Leeton & District Local Aboriginal Land Council		J Norfolk	Artefact	email	29/10/2018	Invitation to register for project sent
Narrandera Local Aboriginal Land Council		J Norfolk	Artefact	email	29/10/2018	Invitation to register for project sent
Young Local Aboriginal Land Council		J Norfolk	Artefact	email	29/10/2018	Invitation to register for project sent
Condobolin Local Aboriginal Land Council		J Norfolk	Artefact	email	29/10/2018	Invitation to register for project sent
Wiradjuri Condobolin Corporation Ltd		J Norfolk	Artefact	email	29/10/2018	Invitation to register for project sent
Wiradjuri Council of Elders		J Norfolk	Artefact	Post	29/10/2018	Invitation to register for project sent
Registration of Interest						
A Darby	Artefact	Lillie Carrol	DNC	email	18/10/2018	Registered interest from AD
J Norfolk	Artefact	Ngangaanha	Wiradjuri Council of Elders	Phone	31/10/2018	Registered an interest
J Norfolk	Artefact	Marnie Freeman	Young LALC	email	1/11/2018	Registered an Interest for YOUNG LALC and eight other individuals Response: requested contacted details for all individuals for Consultation list

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/ response
J Norfolk	Artefact	Marnie Freeman	Young LALC	email	2/11/2018	Received information for Site officers, will list them under Young Lalc
ACHAR methodology review						
West Wyalong Local Aboriginal Land Council		J Norfolk	Artefact	email	12/11/2018	Sent ACHAR methodology for rap review
Young Local Aboriginal Land Council		J Norfolk	Artefact	email	12/11/2018	Sent Achar methodology for review to several members
Wiradjuri Council of Elders		J Norfolk	Artefact	Letter	12/11/2018	Sent ACHAR methodology for rap review
DNC		J Norfolk	Artefact	email	12/11/2018	Sent ACHAR methodology for rap review
Enid Clarke		J Norfolk	Artefact	email	12/11/2018	Sent ACHAR methodology for rap review
Alona Apps		J Norfolk	Artefact	email	12/11/2018	Sent ACHAR methodology for rap review
Krystal Ingram		J Norfolk	Artefact	email	12/11/2018	Sent ACHAR methodology for rap review
4.1.6 Letter to LALC and OEH						
rog.southwest@environment.nsw.gov.au	OEH	A Darby	Artefact	email	14/11/2018	Sent list of registered stakeholders to OEH
Leeanne Hampton	West Wyalong LALC	A Darby	Artefact	email	14/11/2018	Sent list of registered stakeholders to West Wyalong LALC
A Darby	Artefact	Andrew Fisher	OEH	email	15/11/2018	replied and acknowledged email
AFG						

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/ response
Marnie Freeman	Artefact	V Edmonds	Young LALC	phone	15/11/2018	Called to discuss logistics and timing of AFG. Stated 6/12 best 2-3 pm. Call Norma Freeman on 20/11 to confirm. I pointed out no payment for attendance but could provide light refreshments
Bernie	Artefcats	V Edmonds	WW LALC	phone	15/11/2018	Called to discuss whether WW LALC would like to meet to discuss project and results of ASR. Said yes but to call Leanne Hampton on the 16/12 to confirm
Robert Clegg	Artefact	V Edmonds	Wiradjuri COE	phone	15/11/2018	Called to discuss if they could make AFG in Young on 6/12. Said yes. I pointed out no payment for attendance but could assist with mileage
Norma Freeman	Artefact	V Edmonds	Young LALC	phone	20/11/2018	Called to discuss AFG on the 6/12. That date not suitable. Norma suggested 11/12/2018
Leanne Hampton	Artefcats	V Edmonds	WW LALC	phone	20/11/2018	Called to discuss AFG. Leanne agreed to 9.30 am on 11/12/2018. Mentioned they didn't register because they don't get Wagga newspaper
Paul and Lillie Carol	DNC	V Edmonds	Artefact	email	20/11/2018	Sent agenda for both West Wyalong and Young AFGs
Robert Clegg	Wiradjuri COE	V Edmonds	Artefact	email	20/11/2018	Sent agenda for both West Wyalong and Young AFGs
Leeanne Hampton	West Wyalong LALC	V Edmonds	Artefact	email	20/11/2018	Sent agenda for West Wyalong AFG
Enid Clarke		V Edmonds	Artefact	email	20/11/2018	Sent agenda for Young AFG
Leeanne Hampton	West Wyalong LALC	A Darby	Artefact	email	21/11/2018	Forwarded AFG email to the Gmail email address
Robert Clegg	Wiradjuri COE	A Darby	Artefact	email	21/11/2018	Mailed hardcopies of both AFGs

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/ response
Keith Freeman	Young LALC	A Darby	Artefact	email	21/11/2018	mailed hardcopy of the Young AFG
Enid Clarke	Young LALC	A Darby	Artefact	email	21/11/2018	mailed hardcopy of the Young AFG
Alona Apps	Young LALC	A Darby	Artefact	email	21/11/2018	mailed hardcopy of the Young AFG
Krystal Ingram	Young LALC	A Darby	Artefact	email	21/11/2018	mailed hardcopy of the Young AFG
Robert Clegg	Wiradjuri COE	A Darby	Artefact	email	6/12/2018	reminder about the upcoming AFG
Paul and Lillie Carol	DNC	A Darby	Artefact	email	6/12/2018	reminder about the upcoming AFG
Young LALC		A Darby	Artefact	email	6/12/2018	reminder about the upcoming AFG
Enid Clarke		A Darby	Artefact	email	6/12/2018	reminder about the upcoming AFG
Alona Apps		A Darby	Artefact	email	6/12/2018	reminder about the upcoming AFG
Krystal Ingram		A Darby	Artefact	email	6/12/2018	reminder about the upcoming AFG
Leeanne Hampton	West Wyalong LALC	A Darby	Artefact	email	6/12/2018	reminder about the upcoming AFG
Draft ACHAR Review						
Robert Clegg	Wiradjuri Council of Elders	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review
Paul and Lillie Carol	DNC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review
Norma Freeman	Young LALC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review
Enid Clarke	Young LALC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review
Alona Apps	Young LALC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review
Krystal Ingram	Young LALC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review

Contact	Organisation	Contacted by	Organisation	Method	Date	Comment/ response
Jirrah Freeman	Young LALC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review
Jahnayah Freeman	Young LALC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review
Marnie Freeman	Young LALC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review
Keith Freeman	Young LALC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review
Leeanne Hampton	West Wyalong LALC	A Darby	Artefact	email	7/01/2019	Sent draft ACHAR for review

APPENDIX 2 – FULL CONSULTATION RECORDS

A2 - Advert

Aboriginal Cultural Heritage Assessment – Invitation to Register an Interest

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, West Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm. Contact details for the proponent are Lightsource BP, C/ Charlotte Kitchin Email: charlotte.kitchin@lightsourcebp.com

The project is being assessed as a State Significant Development (SSD 9504) under the Environmental Planning and Assessment Act 1979. The purpose of this community consultation is to assist the Director– General of the Department of Planning and Environment in the determination of the project with consideration for Aboriginal cultural heritage values.

The proponent therefore seeks to consult with all Aboriginal groups or individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places in the West Wyalong area.

Interested parties should register in writing, providing their name, address, email, phone number and information on their connection to the area.

Please register your interest in the project by **31 October 2018** by contacting:

Anna Darby, Artefact Heritage
Building B, Level 4, 35 Saunders Street, Pyrmont NSW 2009
02 9518 8411
anna.darby@artefact.net.au

A2 - Agency Letters

10 October 2018

Bland Shire Council
PO Box 21
West Wyalong NSW 2671

Dear Sir or Madam,

Re: West Wyalong Solar Farm – Section 4.1.2 Request for list of potential Aboriginal parties

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

The site on which the solar farm is proposed is comprised of two rural lots with a total area of approximately 560 hectares (ha). The site is currently used for agricultural purposes. The proposal includes the installation of groups of modules on mounting structures across the site. An estimated 653,490 panels will be installed with tracking capabilities. Each panel will be approximately 1.95m x 0.992m with a depth of 0.05m, they will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption. Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 9504) for the project have now been received which specify:

- including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents.

In accordance with these requirements the proponent would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the West Wyalong area. The purpose of community consultation is to assist the proponent in identifying and describing the Aboriginal cultural heritage values within the proposal area and aid in the documentation of these values in the environmental assessment.

The contact details for the proponent are:

Lightsource BP
C/ Charlotte Kitchin
Email: charlotte.kitchin@lightsourcebp.com

In line with the relevant consultation guidelines, I am writing to you to request the names and contact details that your organisation has for Aboriginal people who may hold cultural knowledge relevant to the West Wyalong area. Please forward any information you have before **24 October 2018** to:

Anna Darby
Artefact Heritage
Level 4, Building B
35 Saunders St
Pyrmont, 2009
Phone: 95188411
or email Anna.darby@artefact.net.au

If you require any additional information, please don't hesitate to contact me.

Kind Regards,

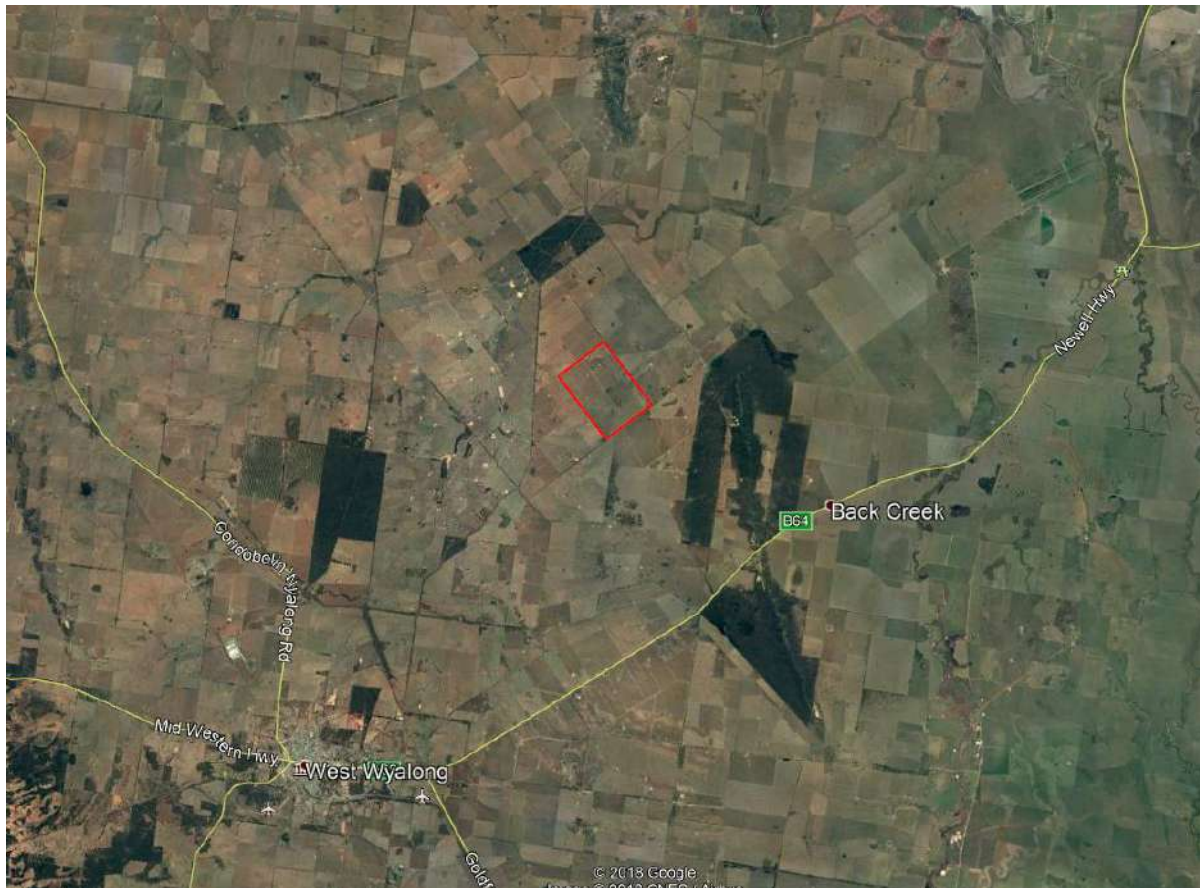


Jennifer Norfolk

Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Wednesday, 10 October 2018 5:04 PM
To: council@blandshire.nsw.gov.au
Cc: Anna Darby
Subject: Notification of project proposal and Request for list of potential Aboriginal parties
Attachments: BSC- Agency Letter_West Wyalong Solar Farm.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for 228-230 Blands Lane, West Wyalong, proposed Solar Farm. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents.


Kind regards

Jennifer Norfolk
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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

10 October 2018

West Wyalong Local Aboriginal Land Council
76-78 Main Street
West Wyalong NSW 2671

Dear Sir or Madam,

Re: West Wyalong Solar Farm – Section 4.1.2 Request for list of potential Aboriginal parties

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

The site on which the solar farm is proposed is comprised of two rural lots with a total area of approximately 560 hectares (ha). The site is currently used for agricultural purposes. The proposal includes the installation of groups of modules on mounting structures across the site. An estimated 653,490 panels will be installed with tracking capabilities. Each panel will be approximately 1.95m x 0.992m with a depth of 0.05m, they will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption. Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 9504) for the project have now been received which specify:

- including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents.

In accordance with these requirements the proponent would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the West Wyalong area. The purpose of community consultation is to assist the proponent in identifying and describing the Aboriginal cultural heritage values within the proposal area and aid in the documentation of these values in the environmental assessment.

The contact details for the proponent are:

Lightsource BP
C/ Charlotte Kitchen
Email: charlotte.kitchen@lightsourcebp.com

In line with the relevant consultation guidelines, I am writing to you to request the names and contact details that your organisation has for Aboriginal people who may hold cultural knowledge relevant to the West Wyalong area. Please forward any information you have before **24 October 2018** to:

Anna Darby
Artefact Heritage
Level 4, Building B
35 Saunders St
Pyrmont, 2009
Phone: 95188411
or email Anna.darby@artefact.net.au

If you require any additional information, please don't hesitate to contact me.

Kind Regards,

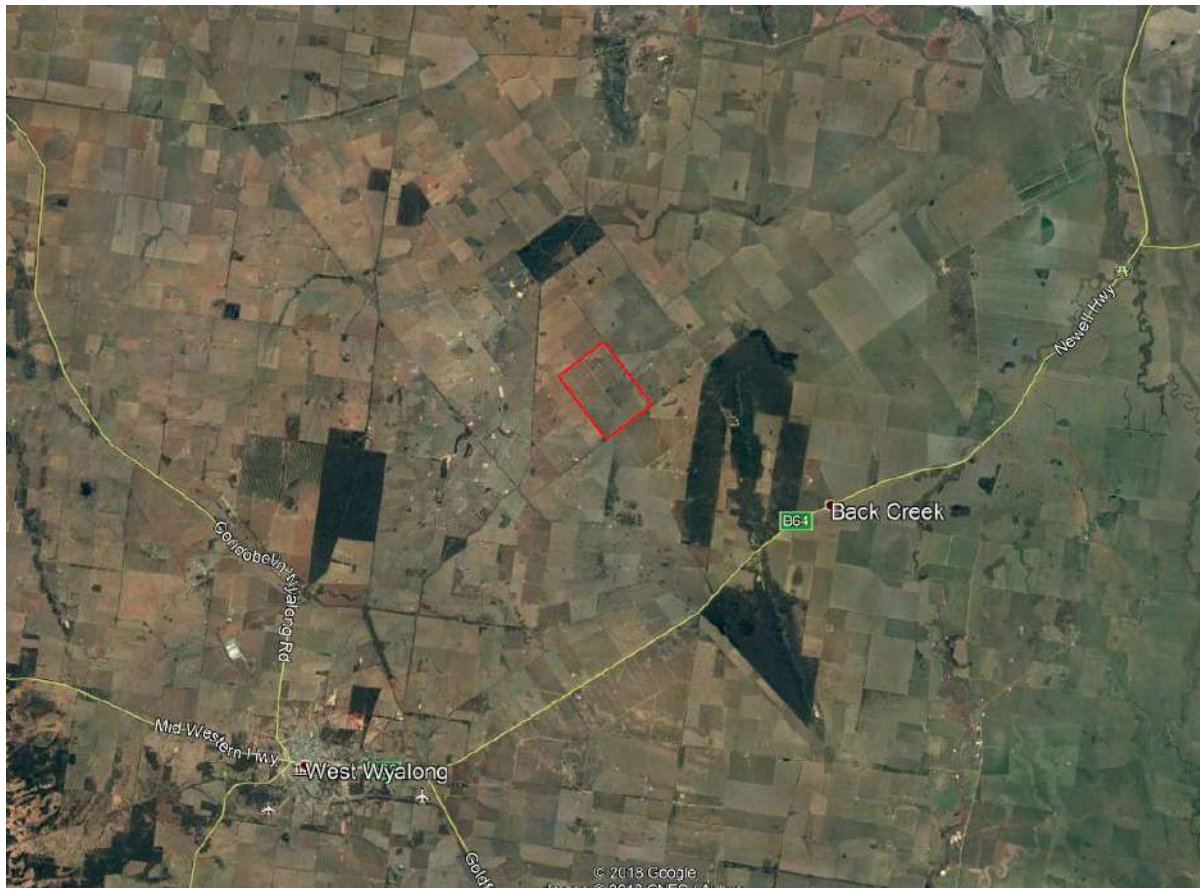


Jennifer Norfolk

Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Wednesday, 10 October 2018 5:11 PM
To: 'wyalonglalc@gmail.com'
Cc: Anna Darby
Subject: Notification of project proposal and Request for list of potential Aboriginal parties
Attachments: LALC- Agency Letter_West Wyalong Solar Farm.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for 228-230 Blands Lane, West Wyalong, proposed Solar Farm. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents.


Kind regards

Jennifer Norfolk
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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

10 October 2018

Darnell Smith Drive
Charles Sturt University
Wagga Wagga NSW 2650

Dear Sir or Madam,

Re: West Wyalong Solar Farm – Section 4.1.2 Request for list of potential Aboriginal parties

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

The site on which the solar farm is proposed is comprised of two rural lots with a total area of approximately 560 hectares (ha). The site is currently used for agricultural purposes. The proposal includes the installation of groups of modules on mounting structures across the site. An estimated 653,490 panels will be installed with tracking capabilities. Each panel will be approximately 1.95m x 0.992m with a depth of 0.05m, they will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption. Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 9504) for the project have now been received which specify:

- including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents.

In accordance with these requirements the proponent would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the West Wyalong area. The purpose of community consultation is to assist the proponent in identifying and describing the Aboriginal cultural heritage values within the proposal area and aid in the documentation of these values in the environmental assessment.

The contact details for the proponent are:

Lightsource BP
C/ Charlotte Kitchin
Email: charlotte.kitchin@lightsourcebp.com

In line with the relevant consultation guidelines, I am writing to you to request the names and contact details that your organisation has for Aboriginal people who may hold cultural knowledge relevant to the West Wyalong area. Please forward any information you have before **24 October 2018** to:

Anna Darby
Artefact Heritage
Level 4, Building B
35 Saunders St
Pyrmont, 2009
Phone: 95188411
or email Anna.darby@artefact.net.au

If you require any additional information, please don't hesitate to contact me.

Kind Regards,

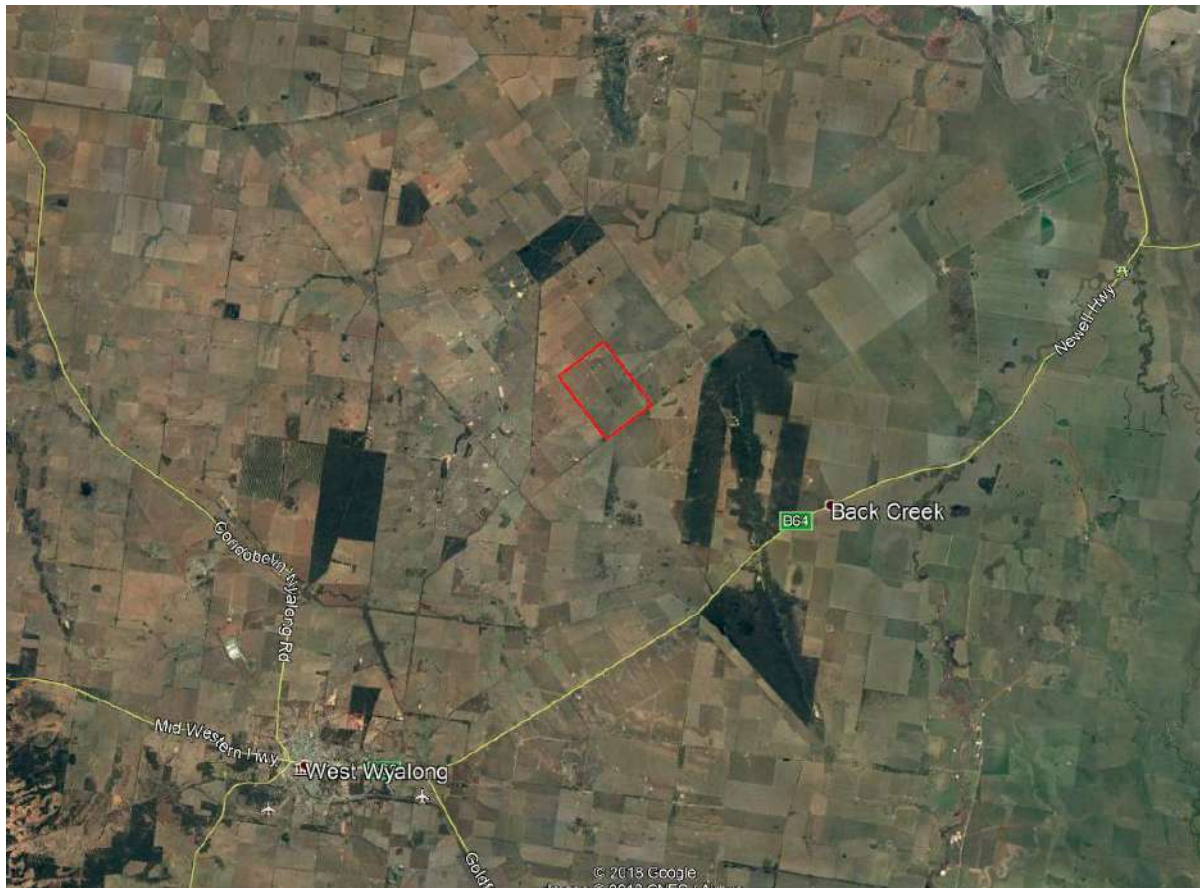


Jennifer Norfolk

Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Wednesday, 10 October 2018 5:07 PM
To: 'admin.riverina@lls.nsw.gov.au'
Cc: Anna Darby
Subject: Notification of project proposal and Request for list of potential Aboriginal parties
Attachments: LLS- Agency Letter_West Wyalong Solar Farm.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for 228-230 Blands Lane, West Wyalong, proposed Solar Farm. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents.


Kind regards

Jennifer Norfolk
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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

Jennifer Norfolk

From: Jennifer Norfolk
Sent: Wednesday, 10 October 2018 5:06 PM
To: 'Enquiries'
Cc: Anna Darby
Subject: Notification of project proposal and Request for list of potential Aboriginal parties
Attachments: NNTT search request West Wyalong.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for 228-230 Blands Lane, West Wyalong, proposed Solar Farm. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents.


Kind regards

Jennifer Norfolk
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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Request for Search of Tribunal Registers

*mandatory fields are marked with an asterisk

1. Your details*

NAME:	Anna Darby
POSITION:	Heritage Consultant
COMPANY/ORGANISATION:	Artefact Heritage
POSTAL ADDRESS:	Level 4, Building B, 35 Saunders Street, Pyrmont, NSW 2009
TELEPHONE:	02 9518 8411
EMAIL:	anna.darby@artefact.net.au
YOUR REFERENCE:	West Wyalong Solar Farm
DATE OF REQUEST:	10/10/2018

2. Reason for your request - please complete either Part A OR Part B*

Part A - Are you a party to a native title proceeding? ☐ Yes ☒ No

Please provide Federal Court/Tribunal file number/
or application name: _____

OR

Part B - Do you need to identify existing native title interests to comply with the *Native Title Act 1993* (Cth) or other State/Territory legislation? ☒ Yes ☐ No

Please provide brief details of these obligations here:

Requirement to contact NNTT in accordance
with the guidelines provided by the NSW
Office of Environment and Heritage
'Aboriginal cultural heritage consultation
requirements for proponents 2010'.

3. Identify the area to be searched – please complete either Part A OR Part B*

Part A - Mining tenure

Tenement ref/s: _____

State/Territory: _____

OR

Part B - Other tenure type

- ☐ Crown Land, crown reserve
☐ Agricultural/pastoral lease
☒ Freehold (privately owned)**

State/Territory: NSW

Local Government Area: Bland

4. Description (please provide as many details as possible)

Provide any additional details, including maps with landmarks clearly shown

Lot and plan details:	Lot 17 DP753081
Property name:	220-230 Blands Lane
Pastoral Lease number or name:	
County:	Gipps
Parish:	Wyalong
Town:	Wyalong
Section:	
Hundred:	
Northern Territory Portion:	

5. Submit your request

NNTT Office	Search jurisdiction	Email address	Fax
Perth	WA searches	waenquiries@nntt.gov.au	(08) 9425 1193
Melbourne	VIC, TAS searches SA, NT searches	vicandtasenquiries@nntt.gov.au sa_and_ntenquiries@nntt.gov.au	(03) 9606 0680 (03) 9606 0680
Sydney	NSW, ACT searches	nswenquiries@nntt.gov.au	(02) 9227 4030
Brisbane	QLD searches	qldenquiries@nntt.gov.au	(07) 3307 5050

Or post to: National Native Title Tribunal, GPO Box 9973 (Perth 6848, Melbourne 3001, Sydney 2001, Brisbane 4001)

- There is no charge for conducting searches of the Tribunal's databases.
- Timeframe for providing results is generally 3-5 business days.
- Register and schedule extracts, plus map attachments will be provided with your results. Technical coordinates may be omitted.

Did you know?

Native Title Vision (NTV) is the National Native Title Tribunal's free online visualisation, mapping and query tool. All that is needed to use NTV is a computer connected to the internet, a current web browser and an NTV user account. NTV puts you in the driver's seat in exploring native title and brings together:

- a geospatial view of the Tribunal's registers and databases
- overlays of administrative regions, non-freehold land parcels and resources tenure.

To obtain a NTV user account visit the [Geospatial section](#) on our website.

**Native title & freehold tenure

Under the *Native Title Act 1993* (Cth), the valid grant of a freehold estate (other than certain types of Aboriginal and Torres Strait Islander land) on or before 23 December 1996 is known as a 'previous exclusive possession act'. This means that native title has been extinguished over the area.

The Tribunal is not the custodian of the data for freehold estates. To determine whether a particular parcel of land is freehold land, you may wish to seek such information from the relevant state/territory government custodian.

10 October 2018

NTS Corp
PO Box 2105,
Strawberry Hills NSW 2012

Dear Sir or Madam,

Re: West Wyalong Solar Farm – Section 4.1.2 Request for list of potential Aboriginal parties

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

The site on which the solar farm is proposed is comprised of two rural lots with a total area of approximately 560 hectares (ha). The site is currently used for agricultural purposes. The proposal includes the installation of groups of modules on mounting structures across the site. An estimated 653,490 panels will be installed with tracking capabilities. Each panel will be approximately 1.95m x 0.992m with a depth of 0.05m, they will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption. Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 9504) for the project have now been received which specify:

- including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents.

In accordance with these requirements the proponent would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the West Wyalong area. The purpose of community consultation is to assist the proponent in identifying and describing the Aboriginal cultural heritage values within the proposal area and aid in the documentation of these values in the environmental assessment.

The contact details for the proponent are:

Lightsource BP
C/ Charlotte Kitchen
Email: charlotte.kitchen@lightsourcebp.com

In line with the relevant consultation guidelines, I am writing to you to request the names and contact details that your organisation has for Aboriginal people who may hold cultural knowledge relevant to the West Wyalong area. Please forward any information you have before **24 October 2018** to:

Anna Darby
Artefact Heritage
Level 4, Building B
35 Saunders St
Pyrmont, 2009
Phone: 95188411
or email Anna.darby@artefact.net.au

If you require any additional information, please don't hesitate to contact me.

Kind Regards,

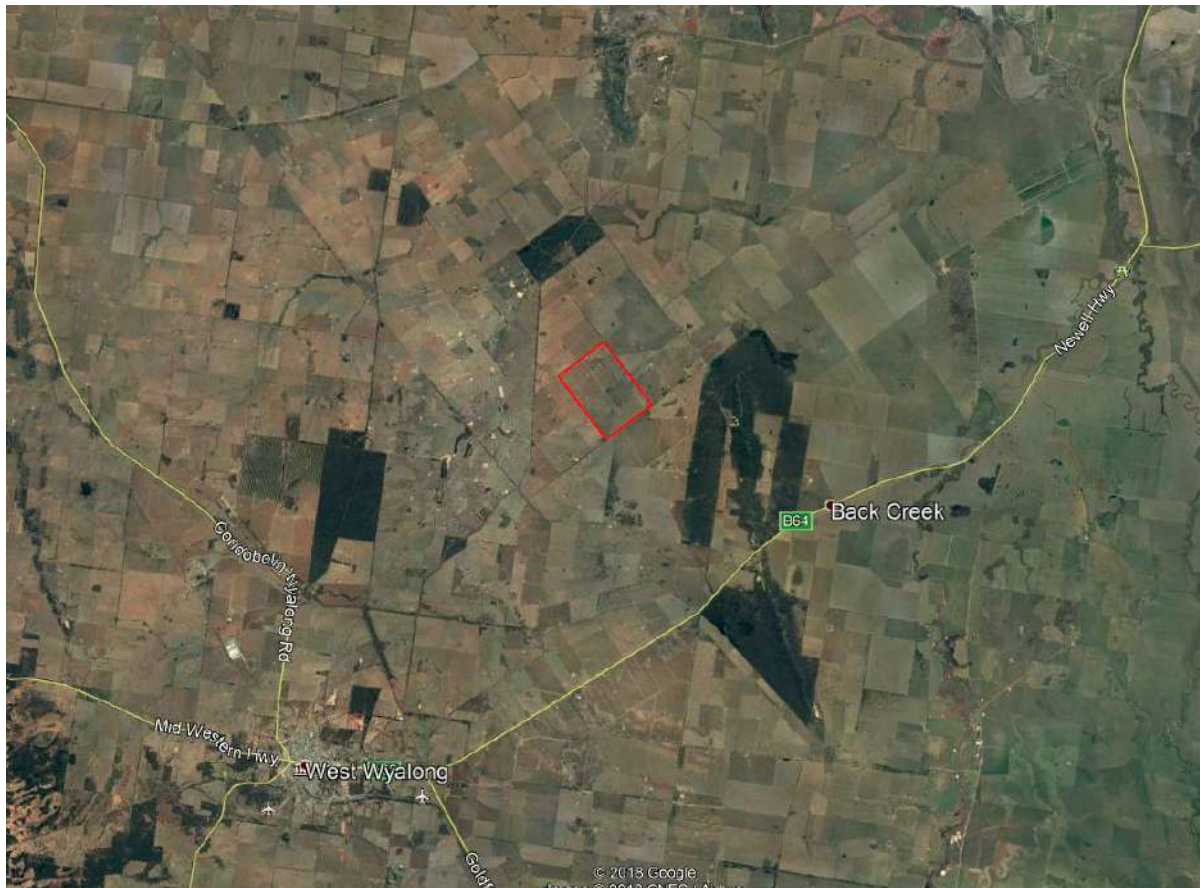


Jennifer Norfolk

Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Wednesday, 10 October 2018 5:09 PM
To: 'information@ntscorp.com.au'
Cc: Anna Darby
Subject: Notification of project proposal and Request for list of potential Aboriginal parties
Attachments: NTSCorp- Agency Letter_West Wyalong Solar Farm.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for 228-230 Blands Lane, West Wyalong, proposed Solar Farm. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents.


Kind regards

Jennifer Norfolk
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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10 October 2018

Griffith (Environmental Protection and Regulation)
130-140 Banna Avenue,
Griffith NSW

Dear Sir or Madam,

Re: West Wyalong Solar Farm – Section 4.1.2 Request for list of potential Aboriginal parties

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

The site on which the solar farm is proposed is comprised of two rural lots with a total area of approximately 560 hectares (ha). The site is currently used for agricultural purposes. The proposal includes the installation of groups of modules on mounting structures across the site. An estimated 653,490 panels will be installed with tracking capabilities. Each panel will be approximately 1.95m x 0.992m with a depth of 0.05m, they will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption. Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site.

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- including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents.

In accordance with these requirements the proponent would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the West Wyalong area. The purpose of community consultation is to assist the proponent in identifying and describing the Aboriginal cultural heritage values within the proposal area and aid in the documentation of these values in the environmental assessment.

The contact details for the proponent are:

Lightsource BP
C/ Charlotte Kitchin
Email: charlotte.kitchin@lightsourcebp.com

In line with the relevant consultation guidelines, I am writing to you to request the names and contact details that your organisation has for Aboriginal people who may hold cultural knowledge relevant to the West Wyalong area. Please forward any information you have before **24 October 2018** to:

Anna Darby
Artefact Heritage
Level 4, Building B
35 Saunders St
Pyrmont, 2009
Phone: 95188411
or email Anna.darby@artefact.net.au

If you require any additional information, please don't hesitate to contact me.

Kind Regards,

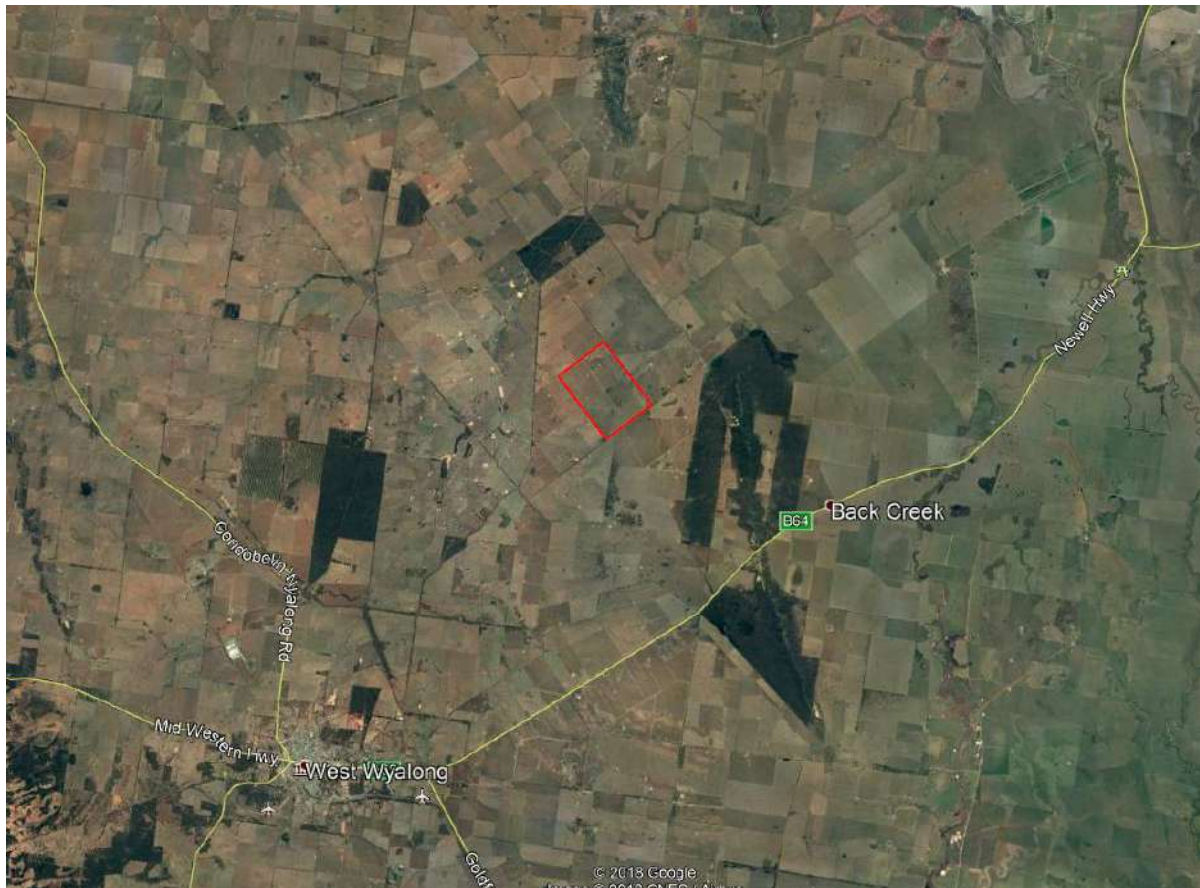


Jennifer Norfolk

Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Wednesday, 10 October 2018 5:10 PM
To: gs.ach@environment.nsw.gov.au
Cc: Anna Darby
Subject: Notification of project proposal and Request for list of potential Aboriginal parties
Attachments: OEH- Agency Letter_West Wyalong Solar Farm.pdf

Murray-Murrumbidgee office – Griffith

Dear Sir or Madam,

I am commencing Aboriginal consultation for 228-230 Blands Lane, West Wyalong, proposed Solar Farm. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents.


Kind regards

Jennifer Norfolk
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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10 October 2018

Office of the Registrar
PO Box 12
Glebe NSW 2037

Dear Sir or Madam,

Re: West Wyalong Solar Farm – Section 4.1.2 Request for list of potential Aboriginal parties

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

The site on which the solar farm is proposed is comprised of two rural lots with a total area of approximately 560 hectares (ha). The site is currently used for agricultural purposes. The proposal includes the installation of groups of modules on mounting structures across the site. An estimated 653,490 panels will be installed with tracking capabilities. Each panel will be approximately 1.95m x 0.992m with a depth of 0.05m, they will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption. Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site.

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- including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents.

In accordance with these requirements the proponent would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the West Wyalong area. The purpose of community consultation is to assist the proponent in identifying and describing the Aboriginal cultural heritage values within the proposal area and aid in the documentation of these values in the environmental assessment.

The contact details for the proponent are:

Lightsource BP
C/ Charlotte Kitchen
Email: charlotte.kitchen@lightsourcebp.com

In line with the relevant consultation guidelines, I am writing to you to request the names and contact details that your organisation has for Aboriginal people who may hold cultural knowledge relevant to the West Wyalong area. Please forward any information you have before **24 October 2018** to:

Anna Darby
Artefact Heritage
Level 4, Building B
35 Saunders St
Pyrmont, 2009
Phone: 95188411
or email Anna.darby@artefact.net.au

If you require any additional information, please don't hesitate to contact me.

Kind Regards,

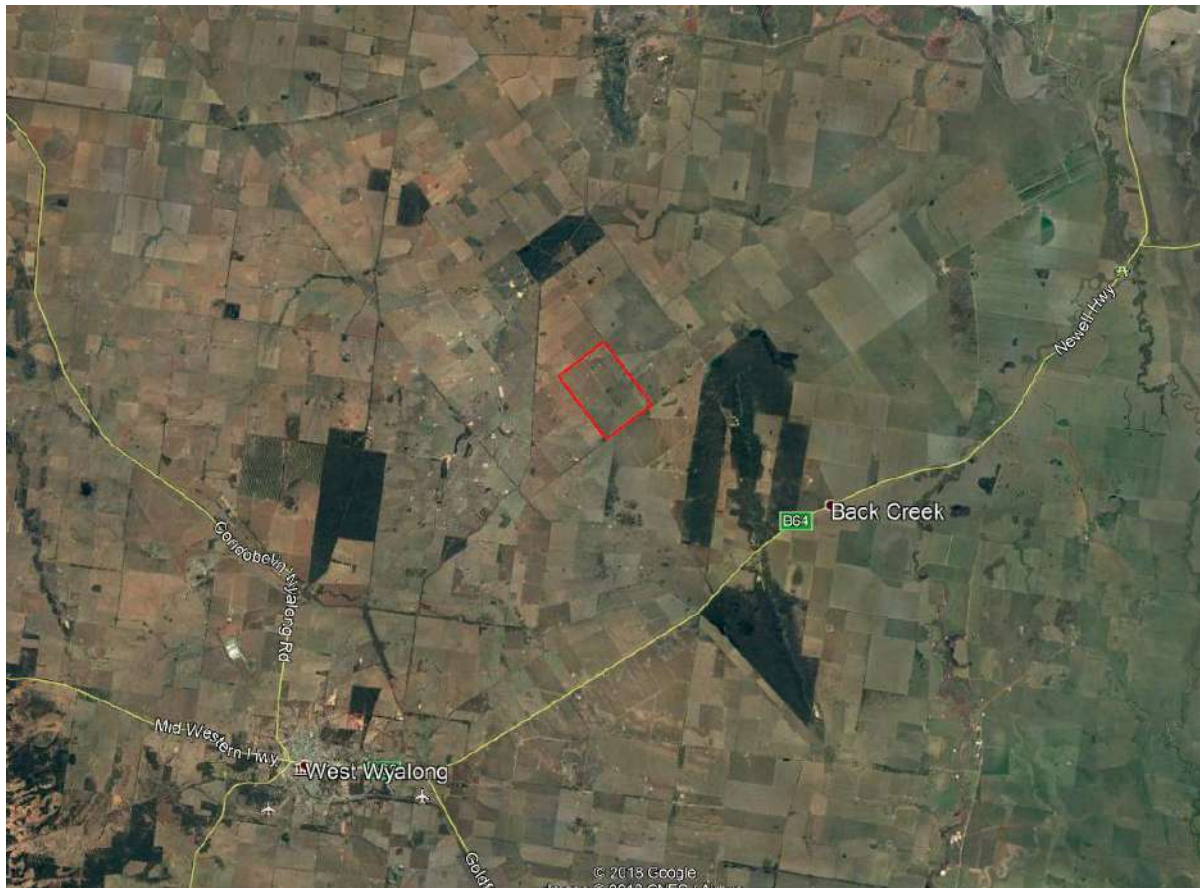


Jennifer Norfolk

Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Wednesday, 10 October 2018 5:12 PM
To: 'adminofficer@oralra.nsw.gov.au'
Cc: Anna Darby
Subject: Notification of project proposal and Request for list of potential Aboriginal parties
Attachments: Registrar- Agency Letter_West Wyalong Solar Farm.pdf

Dear Sir or Madam,

I am commencing Aboriginal consultation for 228-230 Blands Lane, West Wyalong, proposed Solar Farm. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents.


Kind regards

Jennifer Norfolk
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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A2 - Agency Responses

Jennifer Norfolk

From: Anna Darby
Sent: Friday, 12 October 2018 9:33 AM
To: Jennifer Norfolk
Subject: Fwd: West Wyalong Solar Farm

Get [Outlook for Android](#)

From: Ray Smith <rsmith@blandshire.nsw.gov.au>
Sent: Friday, October 12, 2018 8:41:50 AM
To: Anna Darby
Cc: West Wyalong LALC
Subject: West Wyalong Solar Farm

Good Morning Anna

Please see below the contact details of the local aboriginal land council which is the prominent indigenous organisation within the Bland Shire.

Ms. Leeanne Hampton
Chief Executive Officer
West Wyalong Local Aboriginal Land Council
76-78 Main Street
West Wyalong NSW 2671

ww.lalc@bigpond.com

Ph. 02 6972 3493

Regards

Ray Smith
General Manager
Bland Shire Council
PO Box 21
WEST WYALONG NSW 2671
Ph: 02 6972 2266
rsmith@blandshire.nsw.gov.au
www.blandshire.nsw.gov.au



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Jennifer Norfolk

From: Anna Darby
Sent: Monday, 15 October 2018 1:59 PM
To: Jennifer Norfolk
Subject: FW: SR4986 Notification of project proposal and Request for list of potential Aboriginal parties - SR4986

From: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Sent: Monday, 15 October 2018 1:58 PM
To: Anna Darby <Anna.darby@artefact.net.au>
Cc: Jennifer Norfolk <Jennifer.norfolk@artefact.net.au>
Subject: RE: SR4986 Notification of project proposal and Request for list of potential Aboriginal parties - SR4986

UNCLASSIFIED

Native title search – NSW Freehold Parcel – Lot 17 on DP753081
Your ref: West Wyalong Solar Farm- **Our ref:** SR4986

Change of e-mail address for Geospatial Searches

Please ensure that from 14th August 2018 your search requests are forwarded to GeospatialSearch@NNTT.gov.au with a **completed search request form**. The form is available from the Tribunal's website at this address:
<http://www.nntt.gov.au/News-and-Publications/Pages/Forms.aspx>

Dear Anna Darby,

Thank you for your search request received on 11 October 2018 in relation to the above area.

Please note: Records held by the National Native Title Tribunal as at 12 October 2018 indicate that the identified parcels appear to be freehold, and freehold tenure extinguishes native title.
The National Native Title Tribunal does not hold data sets for freehold tenure; consequently, we **cannot** conduct searches over freehold. For confirmation of freehold data, please contact the NSW Land and Property Information office or seek independent legal advice.

For further information, please visit our [website](#).

Cultural Heritage Searches in NSW

The National Native Title Tribunal (the Tribunal) has undertaken steps to remove itself from the formal list of sources for information about indigenous groups in development areas. The existence or otherwise of native title is quite separate to any matters relating to Aboriginal cultural heritage. Information on native title claims, native title determinations and Indigenous Land Use Agreements is available on the Tribunal's website.

Interested parties are invited to use Native Title Vision (NTV) the Tribunal's online mapping system to discover native title matters in their area of interest. Access to NTV is available at
<http://www.nntt.gov.au/assistance/Geospatial/Pages/NTV.aspx>

Training and self-help documents are available on the NTV web page under "Training and help documents". For additional assistance or general advice on NTV please contact GeospatialSearch@NNTT.gov.au

Additional information can be extracted from the Registers available at
<http://www.nntt.gov.au/searchRegApps/Pages/default.aspx>

If you have any further queries, please do not hesitate to contact us on the free call number 1800 640 501.

Regards,

Geospatial Searches

National Native Title Tribunal | Perth

Email: GeospatialSearch@nntt.gov.au | www.nntt.gov.au

Shared country, shared future

From: Jennifer Norfolk <Jennifer.norfolk@artefact.net.au>

Sent: Wednesday, 10 October 2018 4:06 PM

To: Enquiries <Enquiries@nntt.gov.au>

Cc: Anna Darby <Anna.darby@artefact.net.au>

Subject: Notification of project proposal and Request for list of potential Aboriginal parties

Dear Sir or Madam,

I am commencing Aboriginal consultation for 228-230 Blands Lane, West Wyalong, proposed Solar Farm. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents.

Kind regards

Jennifer Norfolk
Heritage Consultant


ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832

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

Web: www.artefact.net.au

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9 October 2018

Anna Darby
Artefact Heritage
Level 4, Building B
35 Saunders Street
PYRMONT NSW 2009

Dear Anna

Re: Request - Search for Registered Aboriginal Owners

I refer to your email of 10 October 2018 regarding an Aboriginal Cultural Heritage Assessment for the proposed development of a 200-250MW Solar Farm located at 228-230 Blands Lane, Wyalong NSW.

I have searched the Register of Aboriginal Owners and the project area described does not have Registered Aboriginal Owners pursuant to Division 3 of the *Aboriginal Land Rights Act 1983*.

I suggest that you contact West Wyalong Local Aboriginal Land Council on 02 6972 3493 regarding the project. They may also be able to assist you in identifying other Aboriginal stakeholders that wish to participate.

Yours sincerely

A handwritten signature in blue ink, consisting of a large loop followed by a series of smaller, connected strokes.

Jodie Rikiti
Administration Officer
Office of the Registrar, ALRA

Jennifer Norfolk

From: Julie Heath <julie.heath@lls.nsw.gov.au>
Sent: Monday, 15 October 2018 6:33 PM
To: Anna Darby
Cc: Jennifer Norfolk; Rob Kelly; Gregory Packer
Subject: Reply Artefact email 10Oct18 re Aboriginal consultation -Proposed solar farm in West Wyalong
Attachments: RLLS Reply 20181015 Artefact - Aboriginal consultation - Solar Farm West Wyalong.pdf

Follow Up Flag: Flag for follow up
Flag Status: Flagged

I refer to email from Jennifer Norfolk, Artefact, regarding the above matter where you are representing proponent Lightsource Development Services Aust P/L.

Please find attached reply from General Manager, Riverina Local Land Services.

if you have any questions or concerns in regard to this response please contact Greg Packer, Snr Land Services Officer, Aboriginal Communities on 6923 6300 or gregory.packer@lls.nsw.gov.au

Julie Heath | Executive Assistant
Riverina Local Land Services

200 Murray Road HANWOOD NSW 2680 [PO Box 1087 GRIFFITH NSW 2680]

t: 02 6960 1311 | f: 02 6963 0255 | m: 0427 291 441 | e: julie.heath@lls.nsw.gov.au

Web: www.riverina.lls.nsw.gov.au | 1300 795 299

Facebook: www.facebook.com/riverinalls | Twitter: www.twitter.com/LLSRiverina



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15 October, 2018

Anna Darby
Artefact Heritage
Level 4, Building B
34 Saunders St
PYRMONT NSW 2009
e: anna.darby@artefact.net.au

Dear Anna

Re: Aboriginal heritage consultation and assessment
West Wyalong Solar Farm Property 228/230 Blands Lane West Wyalong NSW
(Your ref: 17-326)

I refer to an email of 10 October 2018 from Jennifer Norfolk (Heritage Consultant, Artefact) seeking contact details for Aboriginal stakeholder consultation and assessment in the West Wyalong area. I recommend that you consult the Local Aboriginal Lands Council in West Wyalong. Contact details are as follows:

West Wyalong Local Aboriginal Lands Council
CEO Leanne Hampton
PO Box 332 West Wyalong NSW 2671
E: ww.lalc@bigpond.com
Phone 0269723493

If you have any questions or would like to discuss this further with Local Land Services staff, please contact Greg Packer (Snr Land Services Officer, Aboriginal Communities) on 02 6923 6347 or 0427 262 470.

Yours sincerely



Rob Kelly
General Manager

Jennifer Norfolk

From: Andrew Fisher <Andrew.Fisher@environment.nsw.gov.au>
Sent: Thursday, 11 October 2018 5:13 PM
To: Anna Darby
Cc: Jennifer Norfolk; Daniel Clegg
Subject: OEH Response RE: West Wyalong Solar Farm - Request for list of potential Aboriginal parties
Attachments: DOC18-767890 West Wyalong Solar Farm Bland LGA Oct18.pdf; Contact details for OEH Regional Planning Teams - updated Oct18.pdf

Anna,

Please find attached OEH's response to the request for Registered Aboriginal Parties for the proposed West Wyalong Solar Farm.

I have also attached updated contact details and a map showing the areas covered by the OEH Regional Planning teams for your information.

It would be appreciated if you could direct future correspondence on ACH planning matters in SW region to rog.southwest@environment.nsw.gov.au.

Regards,

Andrew



Andrew Fisher

Senior Team Leader Planning
South West Branch
Conservation and Regional
Delivery Division

Level 2, 512 Dean Street,
Albury NSW 2640
PO Box 1040, Albury NSW 2640
T 02 6022 0623 F 02 6021 0610
M 0427 562 844

Contact the Office of Environment and Heritage (OEH) South West Planning Team about biodiversity and Aboriginal cultural heritage planning and regulation matters by emailing rog.southwest@environment.nsw.gov.au.

From: Jennifer Norfolk <Jennifer.norfolk@artefact.net.au>
Sent: Wednesday, 10 October 2018 5:10 PM
To: OEH ROD GSB Aboriginal Cultural Heritage Mailbox <gs.ach@environment.nsw.gov.au>
Cc: Anna Darby <Anna.darby@artefact.net.au>
Subject: Notification of project proposal and Request for list of potential Aboriginal parties

Murray-Murrumbidgee office – Griffith

Dear Sir or Madam,

I am commencing Aboriginal consultation for 228-230 Blands Lane, West Wyalong, proposed Solar Farm. Please find attached a letter regarding step 4.1.2 – 'Notification of project proposal and registration of interest' of the Aboriginal cultural heritage consultation requirements for proponents.


Kind regards

Jennifer Norfolk
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL



Office of
Environment
& Heritage

Your reference:
Our reference: DOC18/767890
Contact: Andrew Fisher
(02) 6022 0623
Date 11 October 2018

Anna Darby
Artefact Heritage
Level 4, Building B
35 Saunders St
PYRMONT NSW 2009
Via email: Anna.darby@artefact.net.au

Dear Ms Darby,

**WRITTEN NOTIFICATION OF PROPOSAL AS REQUIRED UNDER DECCW ABORIGINAL
CULTURAL HERITAGE CONSULTATION REQUIREMENTS FOR PROPONENTS 2010
RE: Proposed 200-250MW Solar Farm, 228-230 Blands Lane, Wyalong – Bland LGA**

I refer to your correspondence received by the Office of Environment and Heritage (OEH) South West Branch on 10 October 2018 regarding the above matter.

Attached is a list of known Aboriginal parties for the Bland local government area that OEH considers likely to have an interest in the development. Please note this is not necessarily an exhaustive list of all interested Aboriginal parties. Receipt of this list does not remove the requirement of a proponent/consultant to advertise in local print media and contact other bodies seeking interested Aboriginal parties, in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (April 2010).

Under Section 4.1.6. of the *Consultation Requirements* you must also provide a copy of the names of each Aboriginal person who registered an interest to the relevant OEH regional office and Local Aboriginal Land Council (LALC) within 28 days from the closing date for registering an interest.

Please note that the contact details in the list provided by OEH may be out of date as it relies on Aboriginal parties advising OEH when their details need changing. If individuals/companies undertaking consultation are aware that any groups contact details are out of date, or letters are returned unopened, please contact either the relevant stakeholder group (if you know their more current details) and/or OEH. AHIP applicants should make a note of any group they are unable to contact as part of their consultation record.

Please contact me if you wish to discuss this matter further.

Yours sincerely

ANDREW FISHER
Senior Team Leader Planning
South West Branch
Conservation and Regional Delivery
Office of Environment and Heritage

ATTACHMENT A – Registered Interests, Bland Local Government Area

ATTACHMENT A Registered Interests**Bland Local Government Area**

Organisation/ Individual Name	Address	Contact Details
West Wyalong Local Aboriginal Land Council	76-78 Main Street PO Box 332 WEST WYALONG NSW 2671	Phone: 02 6972 3493 Fax: 02 6972 2070 Email: ww.lalc@bigpond.com
Murrin Bridge Local Aboriginal Land Council	39 Foster Street PO Box 157 LAKE CARGELLIGO NSW 2672	Phone: 02 6898 1119 Fax: 02 6898 1158 Email: murrinbridgelalc@gmail.com
Leeton & District Local Aboriginal Land Council	Shop 1/5 Belah Street PO Box 994 LEETON NSW 2705	Phone: 02 6953 4344 Fax: 02 6953 5248 Email: admin@ldlalc.com.au
Narrandera Local Aboriginal Land Council	172 East Street PO Box 544 NARRANDERA NSW 2700	Phone: 02 6959 1823 Fax: 02 6959 2811 Email: nlalc14@bigpond.com
Young Local Aboriginal Land Council	247 Boorowa Street YOUNG NSW 2594	Phone: 02 6382 5669 Fax: 02 6382 2522 Email: younglalc62@gmail.com
Condobolin Local Aboriginal Land Council	18 William St PO Box 114 CONDOBOLIN NSW 2877	Phone: 02 6895 3639 Fax: 02 6895 3729 Email: condolalc@westserv.net.au
Wiradjuri Condobolin Corporation Ltd	Percy Knight (CEO) PO Box 194 CONDOBOLIN NSW 2877	Phone: 02 6895 4664 Email: percyknightwcc@bigpond.com
Mooka Traditional Owners Council		No contact details available
Wiradjuri Council of Elders	Ngangaanha (Chair) 28 Hodges Street PARKES NSW 2870	Mobile: 0450 530 920

A2 - Registration of Interest

Jennifer Norfolk

From: Jennifer Norfolk
Sent: Monday, 29 October 2018 6:32 PM
To: percyknightwcc@bigpond.com
Subject: Registration of interest for 228-230 Blands Lane, West Wyalong

29 October 2018

Dear Sir or Madam,

Re: West Wyalong Solar Farm. – Section 4.1.3 Registration of Interest

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

The site on which the solar farm is proposed is comprised of two rural lots with a total area of approximately 560 hectares (ha). The site is currently used for agricultural purposes. The proposal includes the installation of groups of modules on mounting structures across the site. An estimated 653,490 panels will be installed with tracking capabilities. Each panel will be approximately 1.95m x 0.992m with a depth of 0.05m, they will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption. Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 9504) for the project have now been received which specify:

- including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents.

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The contact details for the proponent are:

Lightsource BP
C/ Charlotte Kitchin
Email: charlotte.kitchin@lightsourcebp.com

If you hold cultural knowledge of the West Wyalong region or know any that would be interested to be consulted, we invite you or them to register interest in the process of community consultation. Please forward your registration of interest in writing before **12 November 2018** to:

Jennifer Norfolk
Artefact Heritage
Level 4, Building B
35 Saunders St
Pymont, 2009
Phone: 95188411

or email jennifer.norfolk@artefact.net.au

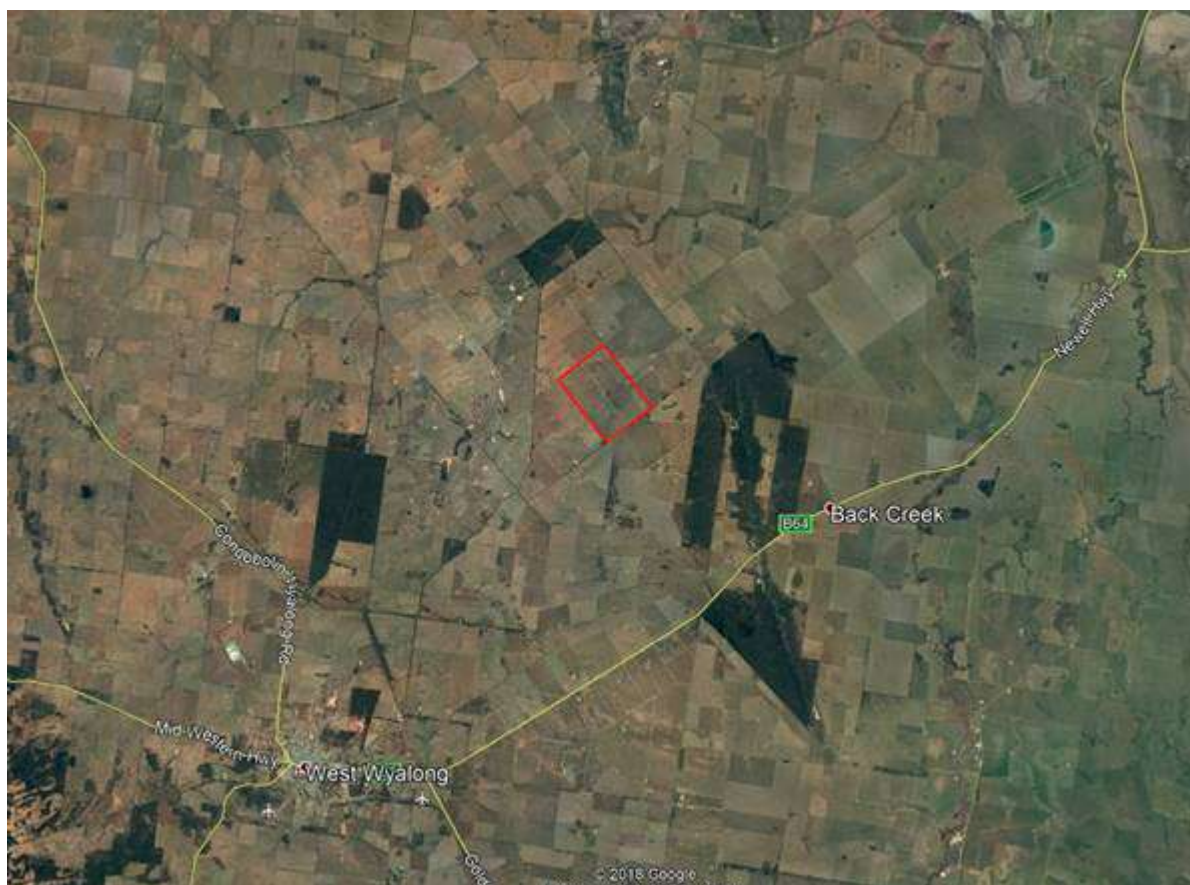
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Kind Regards,



Jennifer Norfolk
Heritage Consultant
Artefact Heritage
Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Monday, 29 October 2018 6:30 PM
To: percyknightwcc@bipond.com
Subject: Registration of Interest for 228-230 Blands Lane, West Wyalong

29 October 2018

Dear Sir or Madam,

Re: West Wyalong Solar Farm. – Section 4.1.3 Registration of Interest

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

The site on which the solar farm is proposed is comprised of two rural lots with a total area of approximately 560 hectares (ha). The site is currently used for agricultural purposes. The proposal includes the installation of groups of modules on mounting structures across the site. An estimated 653,490 panels will be installed with tracking capabilities. Each panel will be approximately 1.95m x 0.992m with a depth of 0.05m, they will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption. Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site.

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Artefact Heritage
Jennifer.norfolk@artefact.net.au
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Figure 1: Location of the study area




Jennifer Norfolk
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0466 312 832
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

Cultural Heritage Management | Archaeology | Heritage Interpretation

 We acknowledge the Traditional Custodians of Country in which we live and work, and pay our respects to them, their culture and their Elders past, present and future

Notice: This message contains privileged and confidential information intended only for the use of the addressee.
If you are not the intended recipient you must not disseminate, copy or take any action in reliance upon it.
If you received this in error, please notify us immediately.

Jennifer Norfolk

From: Jennifer Norfolk
Sent: Monday, 29 October 2018 6:21 PM
To: percyknightwcc@bipond.com
Subject: Registration of interest for 228-230 Blands Lane, West Wyalong

29 October 2018

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C/ Charlotte Kitchin
Email: charlotte.kitchin@lightsourcebp.com

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Kind Regards,



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Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Monday, 29 October 2018 6:21 PM
To: condolalc@westserv.net.au
Subject: Registration of interest for 228-230 Blands Lane, West Wyalong

29 October 2018

Dear Sir or Madam,

Re: West Wyalong Solar Farm. – Section 4.1.3 Registration of Interest

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

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Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Monday, 29 October 2018 6:21 PM
To: younglalc62@gmail.com
Subject: Registration of interest for 228-230 Blands Lane, West Wyalong

29 October 2018

Dear Sir or Madam,

Re: West Wyalong Solar Farm. – Section 4.1.3 Registration of Interest

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Email: charlotte.kitchin@lightsourcebp.com

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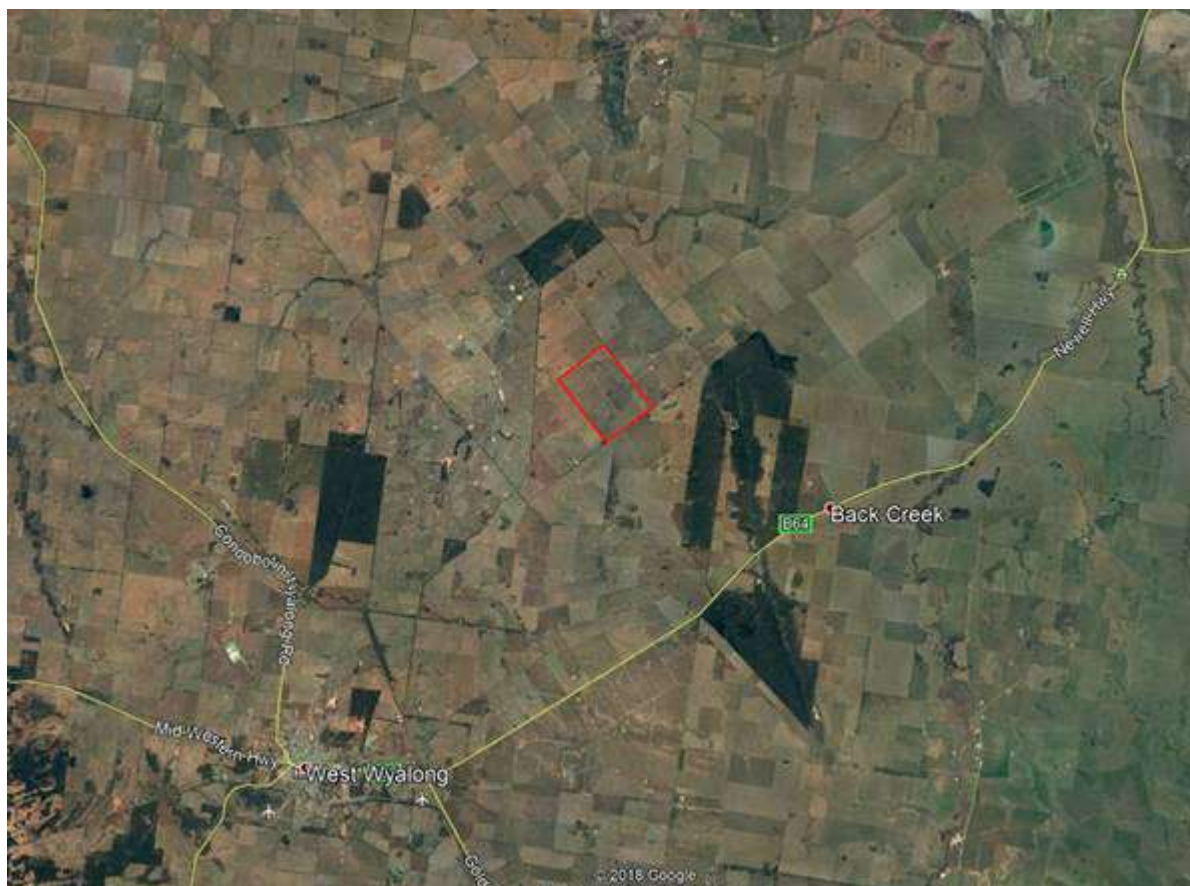
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Jennifer Norfolk
Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



Jennifer Norfolk

From: Jennifer Norfolk
Sent: Monday, 29 October 2018 6:21 PM
To: nlalc14@bigpond.com
Subject: Registration of interest for 228-230 Blands Lane, West Wyalong

29 October 2018

Dear Sir or Madam,

Re: West Wyalong Solar Farm. – Section 4.1.3 Registration of Interest

Artefact Heritage on behalf of Lightsource Development Services Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment of the property known as 228-230 Blands Lane, Wyalong in advance of the proposed development to construct and operate a 200-250MW solar farm.

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Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

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Sent: Monday, 29 October 2018 6:21 PM
To: admin@ldlalc.com.au
Subject: Registration of interest for 228-230 Blands Lane, West Wyalong

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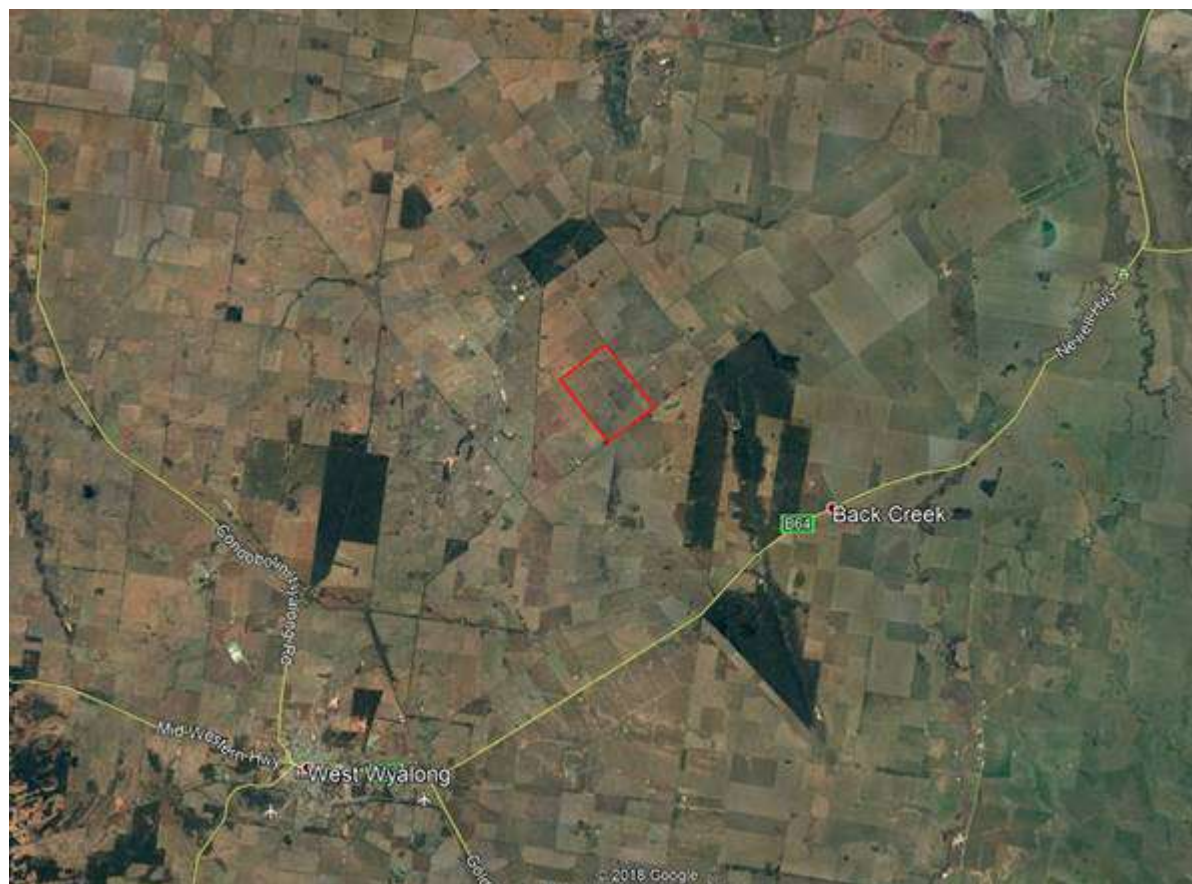
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02 9518 8411

Figure 1: Location of the study area



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From: Jennifer Norfolk
Sent: Monday, 29 October 2018 6:21 PM
To: murrinbridgelalc@gmail.com
Subject: Registration of interest for 228-230 Blands Lane, West Wyalong

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From: Jennifer Norfolk
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To: ww.lalc@bigpond.com
Subject: Registration of interest for 228-230 Blands Lane, West Wyalong

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Artefact Heritage

Jennifer.norfolk@artefact.net.au
02 9518 8411

Figure 1: Location of the study area



A2 – Registration of Interest Responses

Anna Darby

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Thursday, 18 October 2018 3:42 PM
To: Anna Darby

Hi Anna,

DNC would like to register an interest into 228-230 Blands Lane, West Wyalong,

Kind regards
Paul Boyd & Lilly Carroll
Directors DNC

[Sent from Yahoo Mail for iPhone](#)

Jennifer Norfolk

From: Norma Freeman <younglalc62@gmail.com>
Sent: Thursday, 1 November 2018 11:26 AM
To: Jennifer Norfolk
Subject: Re: Registration of interest for 228-230 Blands Lane, West Wyalong
Attachments: image002.jpg

Hi Jennifer,

Hope you are well.

Could i please register the following EOIs;

- Young Local Aboriginal Land Councils expression of interest, as well as our individual stake holders;
- Norma Freeman
- Marnie Freeman
- Jirrah Freeman
- Jahnayah Freeman
- Keith Freeman
- Alona Apps
- Enid Clarke
- Krystal Ingram

Please let me know if you have any concerns or queries.

Kind Regards

Marnie Freeman

On Mon, Oct 29, 2018 at 6:20 PM Jennifer Norfolk <Jennifer.norfolk@artefact.net.au> wrote:

29 October 2018

Dear Sir or Madam,

Re: West Wyalong Solar Farm. – Section 4.1.3 Registration of Interest

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Lightsource BP

C/ Charlotte Kitchin

Email: charlotte.kitchin@lightsourcebp.com

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Jennifer Norfolk

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Level 4, Building B

35 Saunders St

Pymont, 2009

Phone: 95188411

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Kind Regards,

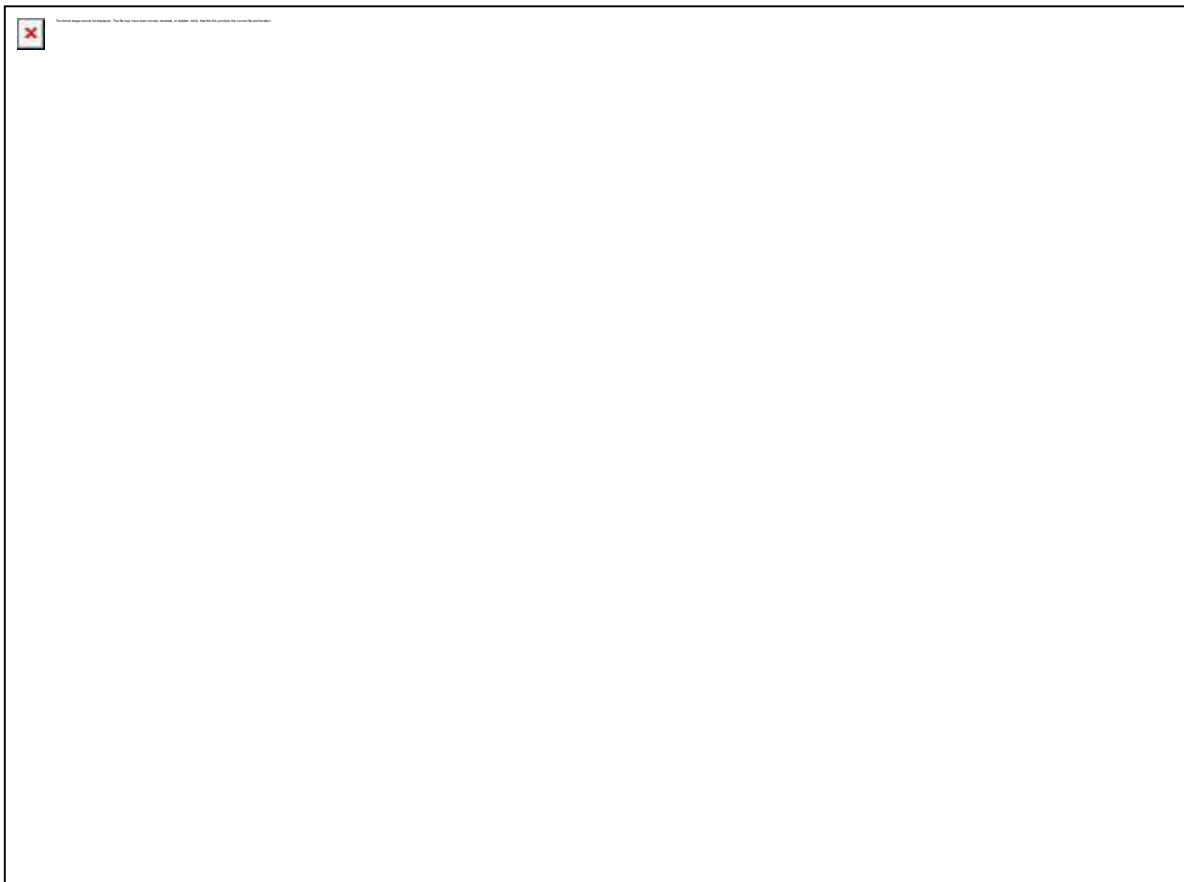


Jennifer Norfolk
Heritage Consultant
Artefact Heritage

Jennifer.norfolk@artefact.net.au

02 9518 8411

Figure 1: Location of the study area



--

Norma Freeman

Chief Executive Officer

Young Local Aboriginal Land Council

247 Boorowa Street

Young NSW 2594

Ph: 02 63825669

Mob: 0439 649 443

Fax: 02 63822522

I acknowledge the Traditional Custodians of the lands on which I Live, Walk & Work, across Wiradjuri & pay my respects to all Elders Past, Present and Future

A2 – Notification letter to OEH and LALC

Anna Darby

From: Anna Darby
Sent: Wednesday, 14 November 2018 1:58 PM
To: 'rog.southwest@environment.nsw.gov.au'
Cc: Michael Lever
Subject: Section 4.1.6 - Aboriginal heritage assessment for 228-230 Blands Lane, West Wyalong
Attachments: Leader Wagga ad.JPG

To whom it may concern,

Re: Section 4.1.6 - Aboriginal heritage assessment for 228-230 Blands Lane, West Wyalong.

Artefact Heritage has been engaged by Lightsource Development Services Australia Pty Ltd to complete an Aboriginal Cultural Heritage Assessment Report (ACHAR) for an area identified as 228-230 Blands Lane, West Wyalong. Lightsource Development Services Australia Pty Ltd are working on constructing a solar farm under SEARs (SSD_18_9504).

Lightsource Development Services Australia Pty Ltd wishes to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the West Wyalong region. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal Cultural Heritage Assessment Report to satisfy the requirements of SEARs SSD_18_9504.

In accordance with Section 4.1.6 of the OEH *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (2010), please find below a list of Registered Stakeholders for the project.

The four registered Aboriginal stakeholders include:

- | | |
|-------------------------------|--------------------------|
| • Didge Ngunawal Clan | Paul Boyd/ Lilly Carroll |
| • Wiradjuri Council of Elders | Mr Ngangaanha |
| • Young LALC | Marnie Freeman |
| • West Wyalong LALC | Leeanne Hampton |

West Wyalong LALC—did not respond to the registration request but have been placed on the consultation list as the study area is within their government boundary.

Also included is a copy of the published Step 4.1.3 advertisement providing an invitation to register interest in the project. The advertisement was published in the Wagga Leader on 17 October 2018.

If you would like to discuss any of these details, or have any comments, please do not hesitate to contact me.


Yours sincerely,

Anna Darby
Graduate Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

Cultural Heritage Management | Archaeology | Heritage Interpretation

 We acknowledge the Traditional Custodians of Country in which we live and work, and pay our respects to them, their culture and their Elders past, present and future

Notice: This message contains privileged and confidential information intended only for the use of the addressee. If you are not the intended recipient you must not disseminate, copy or take any action in reliance upon it. If you received this in error, please notify us immediately.

Anna Darby

From: Anna Darby
Sent: Wednesday, 14 November 2018 1:51 PM
To: 'West Wyalong LALC'
Cc: Michael Lever
Subject: Section 4.1.6 - Aboriginal heritage assessment for 228-230 Blands Lane, West Wyalong
Attachments: Leader Wagga ad.JPG

Dear Leeanne,

Re: Section 4.1.6 - Aboriginal heritage assessment for 228-230 Blands Lane, West Wyalong.

Artefact Heritage has been engaged by Lightsource Development Services Australia Pty Ltd to complete an Aboriginal Cultural Heritage Assessment Report (ACHAR) for an area identified as 228-230 Blands Lane, West Wyalong. Lightsource Development Services Australia Pty Ltd are working on constructing a solar farm under SEARs (SSD_18_9504).

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A2 – ACHAR Methodology sent to RAPs

12 November 2018

Dear Paul Boyd and Lillie Carrol,

Re: West Wyalong Solar Farm, 228-230 Blands Lane: Proposed ACHAR Methodology

Thank you for registering as a stakeholder for the proposed redevelopment of West Wyalong Solar Farm. I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

If you would like to comment on the Aboriginal cultural heritage of the study area or the proposed methodology, please provide your response by **10 December 2018**. Please address your response to me at:

Jennifer Norfolk
Artefact Heritage
Level 4, Building B, 35 Saunders Street
Pymont NSW 2009

Or via email: jennifer.norfolk@artefact.net.au

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

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community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents.

1.3 Proposed Assessment Methodology

The ACHAR will be completed in accordance with the relevant OEH guidelines:

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The initial stages of this process have been completed, and a list of Registered Aboriginal Parties (RAPs) has been compiled. The present letter provides the RAPs with project information and the proposed assessment methodology for review.

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- Assess the Aboriginal cultural heritage values of the study area in accordance with the Code of Practice
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Thank you very much for your involvement in the project. If you require any additional information, please do not hesitate to contact me.

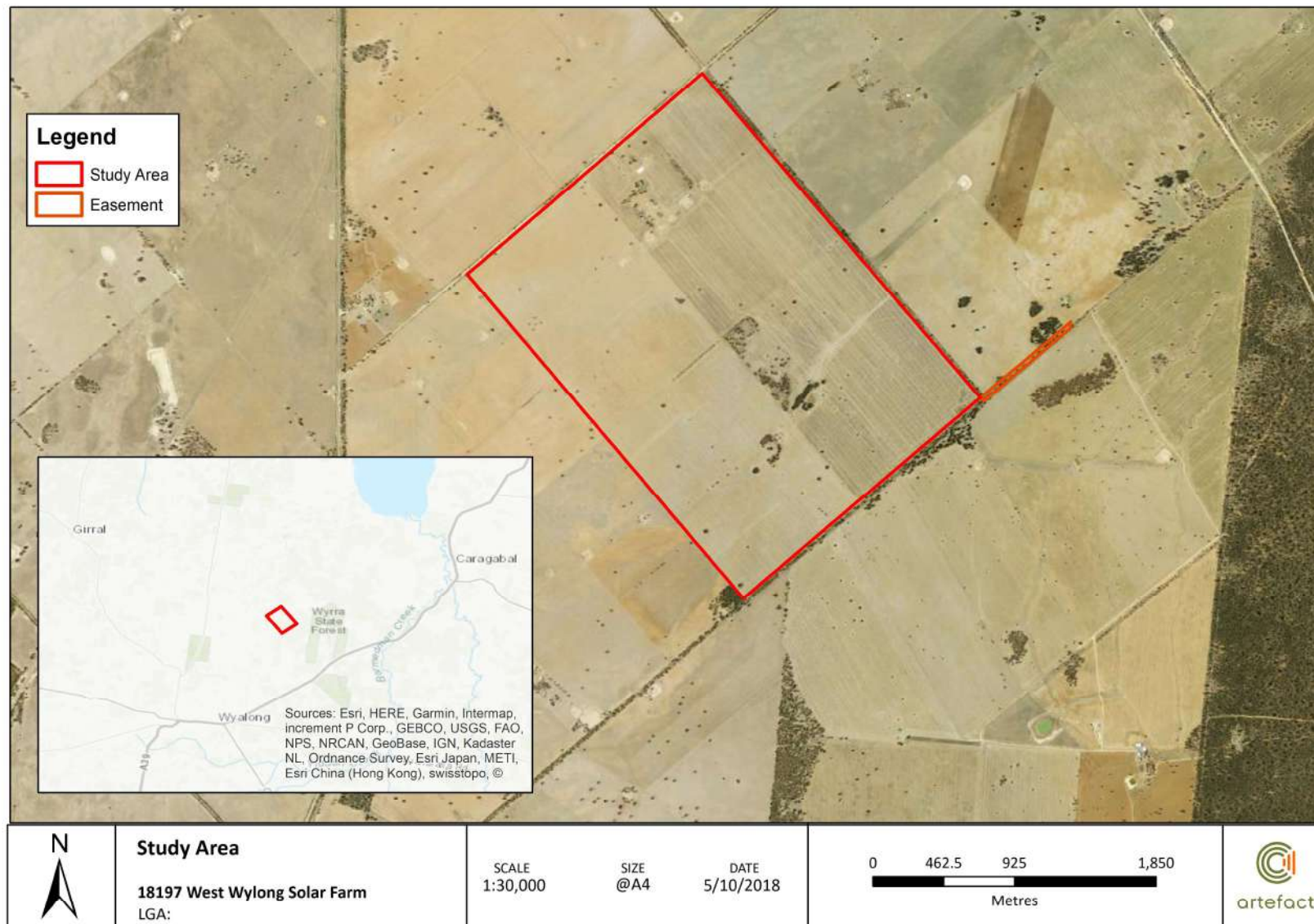
Kind Regards,



Jennifer Norfolk
Graduate Heritage Consultant
Artefact Heritage

Anna.darby@artefact.net.au
02 9518 8411

Figure 1: Map of study area



Document Path: C:\Users\GIS\Desktop\GIS\GIS_Mapping\18197 West Wyalong Solar Farm\MXD\Study Area.mxd

12 November 2018

Dear Ngangaanha Brian?,

Re: West Wyalong Solar Farm, 228-230 Blands Lane: Proposed ACHAR Methodology

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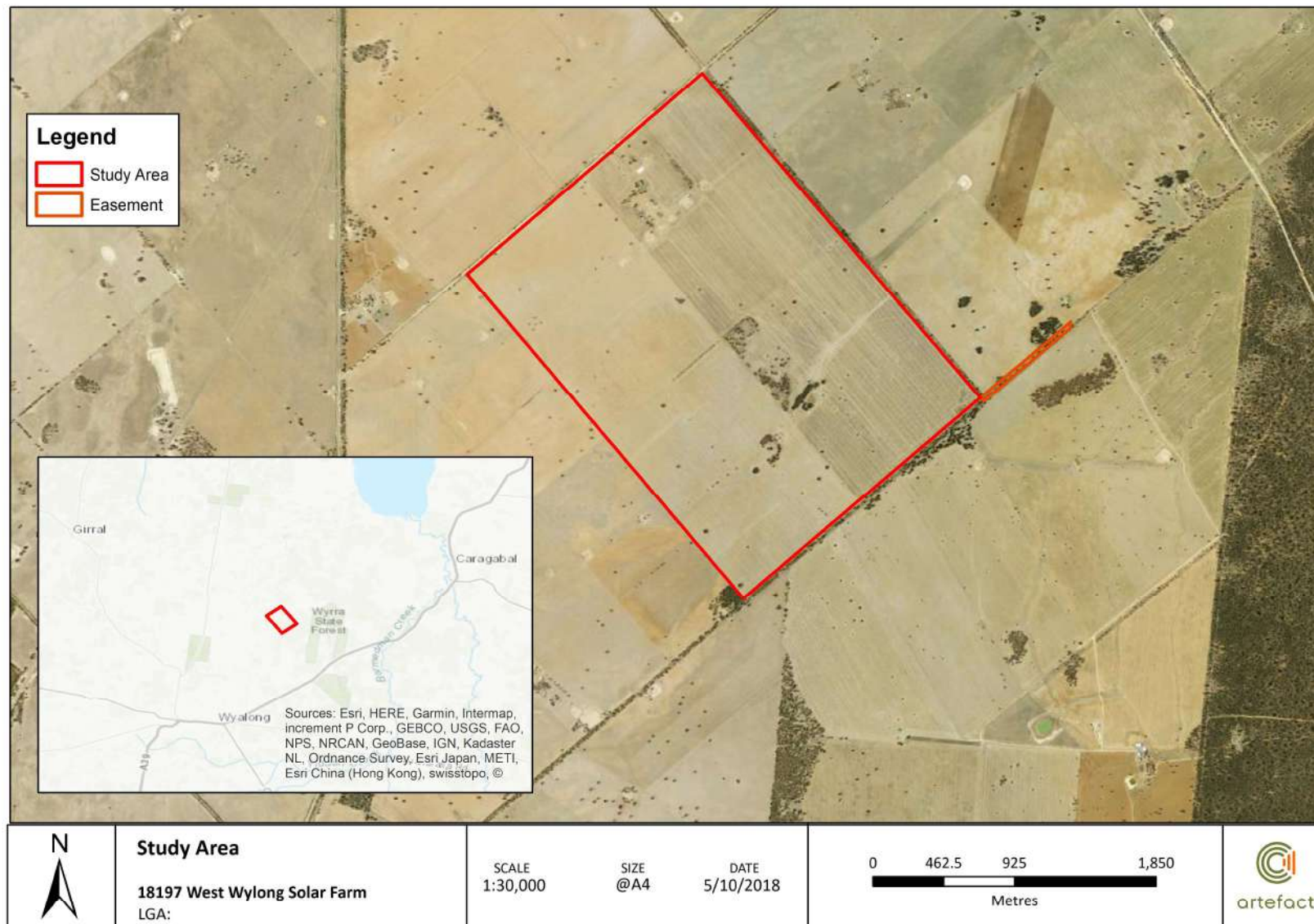
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Anna.darby@artefact.net.au
02 9518 8411

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Document Path: C:\Users\GIS\Desktop\GIS\GIS_Mapping\18197 West Wyalong Solar Farm\MXD\Study Area.mxd

12 November 2018

Dear Norma Freeman,

Re: West Wyalong Solar Farm, 228-230 Blands Lane: Proposed ACHAR Methodology

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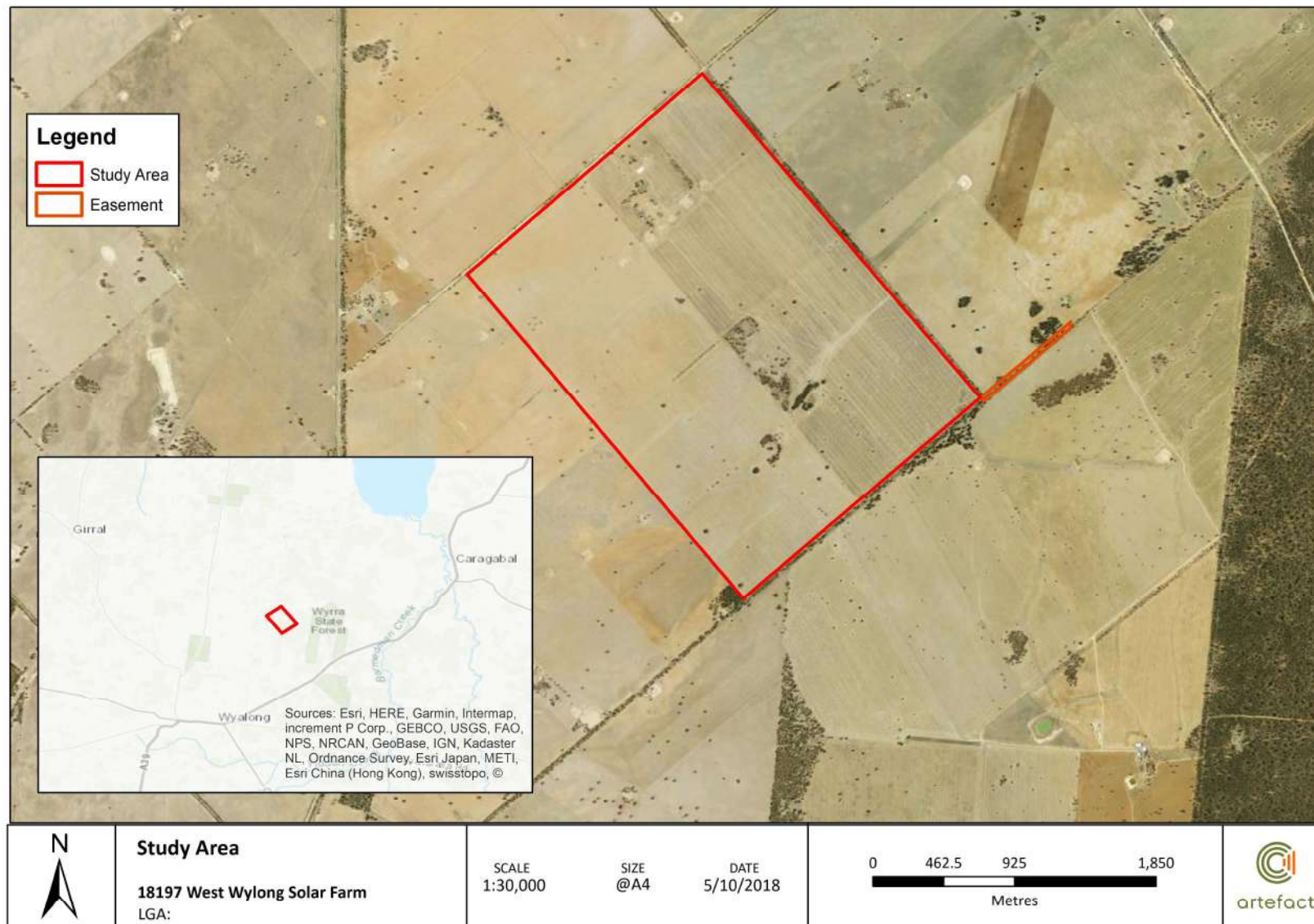
Kind Regards,



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02 9518 8411

Figure 1: Map of study area



12 November 2018

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Re: West Wyalong Solar Farm, 228-230 Blands Lane: Proposed ACHAR Methodology

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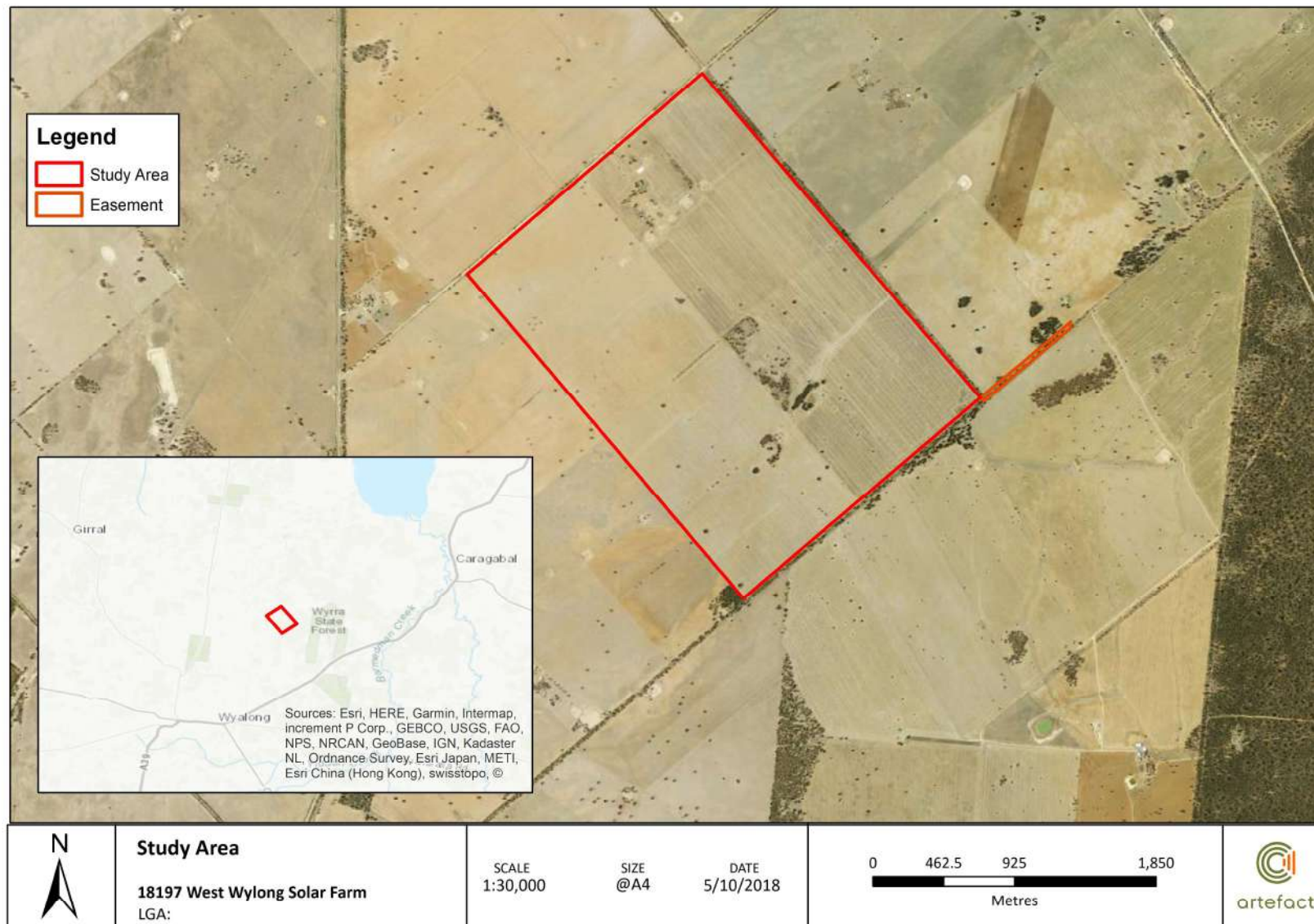
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02 9518 8411

Figure 1: Map of study area



Document Path: C:\Users\GIS\Desktop\GIS\GIS_Mapping\18197 West Wyalong Solar Farm\MXD\Study Area.mxd

12 November 2018

Dear Jahnayah Freeman,

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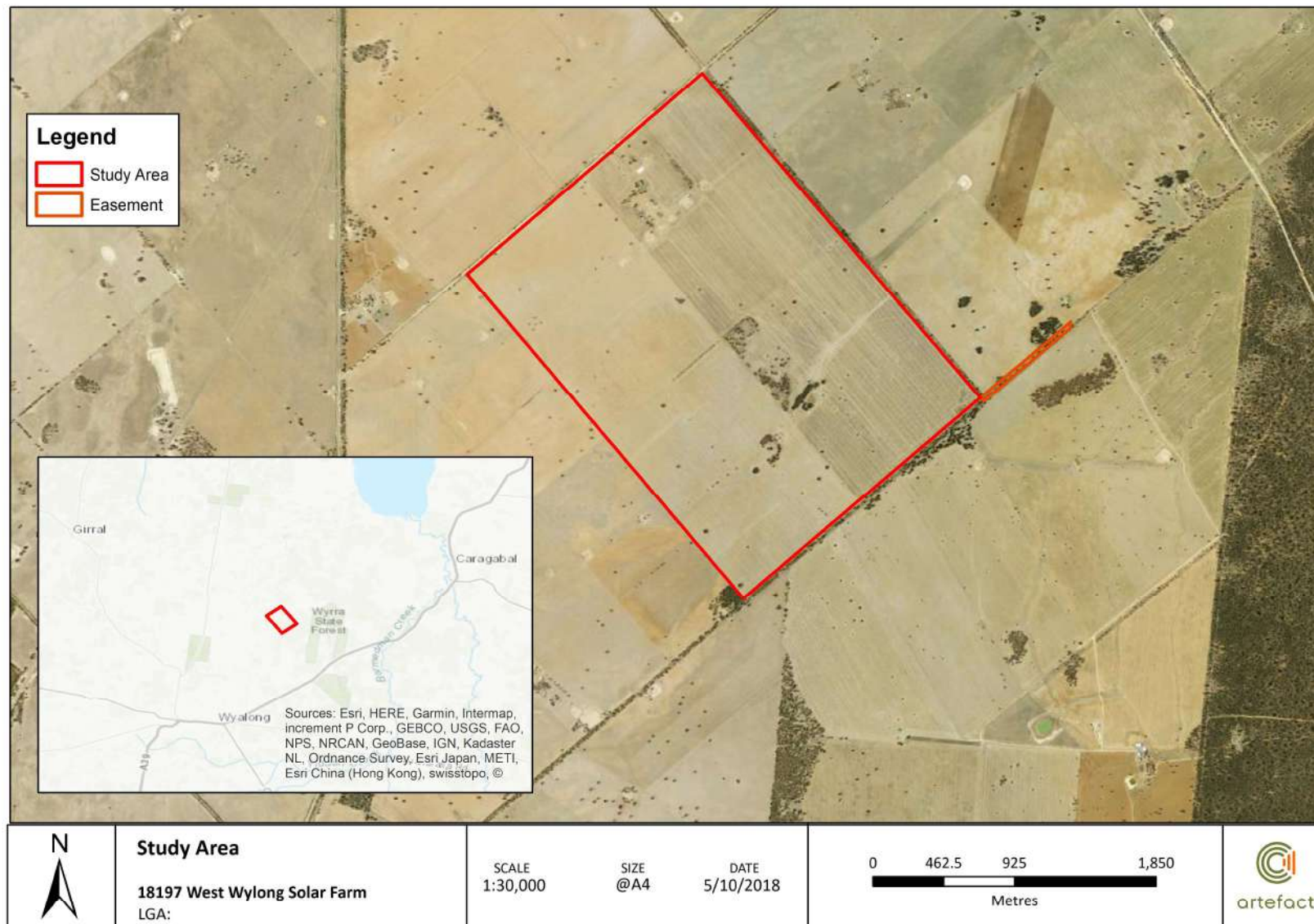
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02 9518 8411

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12 November 2018

Dear Marnie Freeman,

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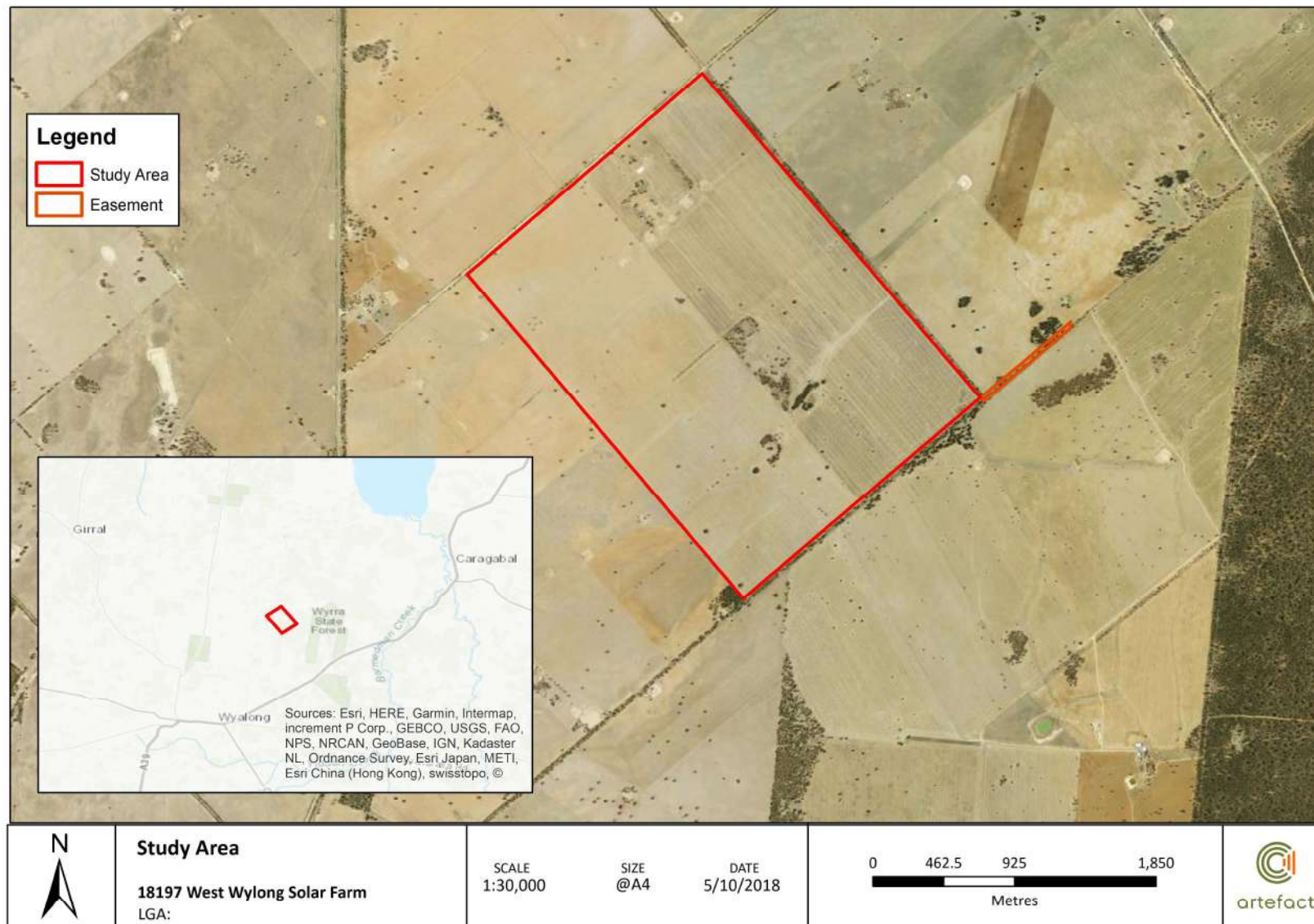
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12 November 2018

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Pymont NSW 2009

Or via email: jennifer.norfolk@artefact.net.au

In your response, please consider the following points:

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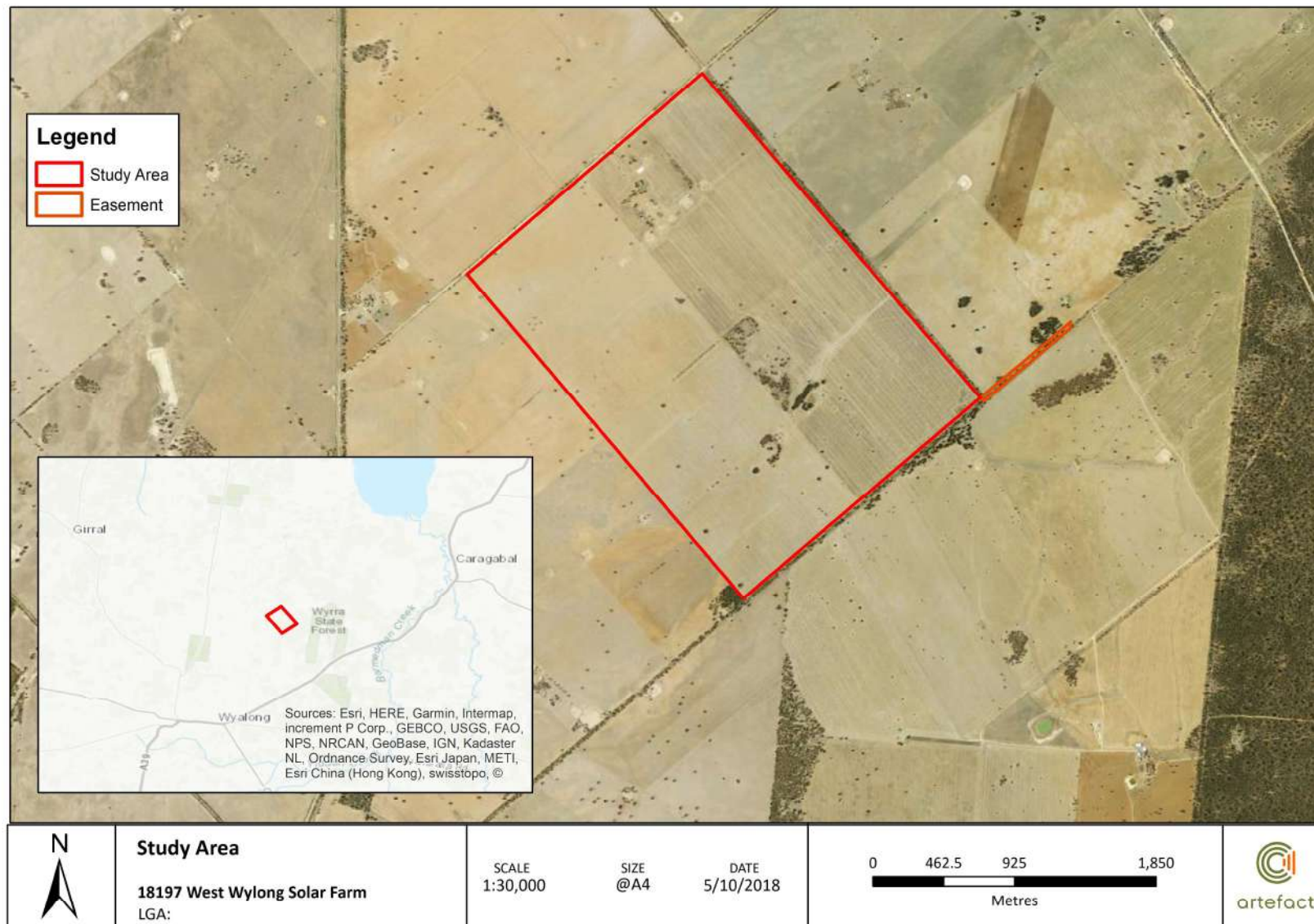
Kind Regards,



Jennifer Norfolk
Graduate Heritage Consultant
Artefact Heritage

Anna.darby@artefact.net.au
02 9518 8411

Figure 1: Map of study area



Document Path: C:\Users\GIS\Desktop\GIS\GIS_Mapping\18197 West Wyalong Solar Farm\MXD\Study Area.mxd

12 November 2018

Dear Enid Clarke,

Re: West Wyalong Solar Farm, 228-230 Blands Lane: Proposed ACHAR Methodology

Thank you for registering as a stakeholder for the proposed redevelopment of West Wyalong Solar Farm. I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

If you would like to comment on the Aboriginal cultural heritage of the study area or the proposed methodology, please provide your response by **10 December 2018**. Please address your response to me at:

Jennifer Norfolk
Artefact Heritage
Level 4, Building B, 35 Saunders Street
Pymont NSW 2009

Or via email: jennifer.norfolk@artefact.net.au

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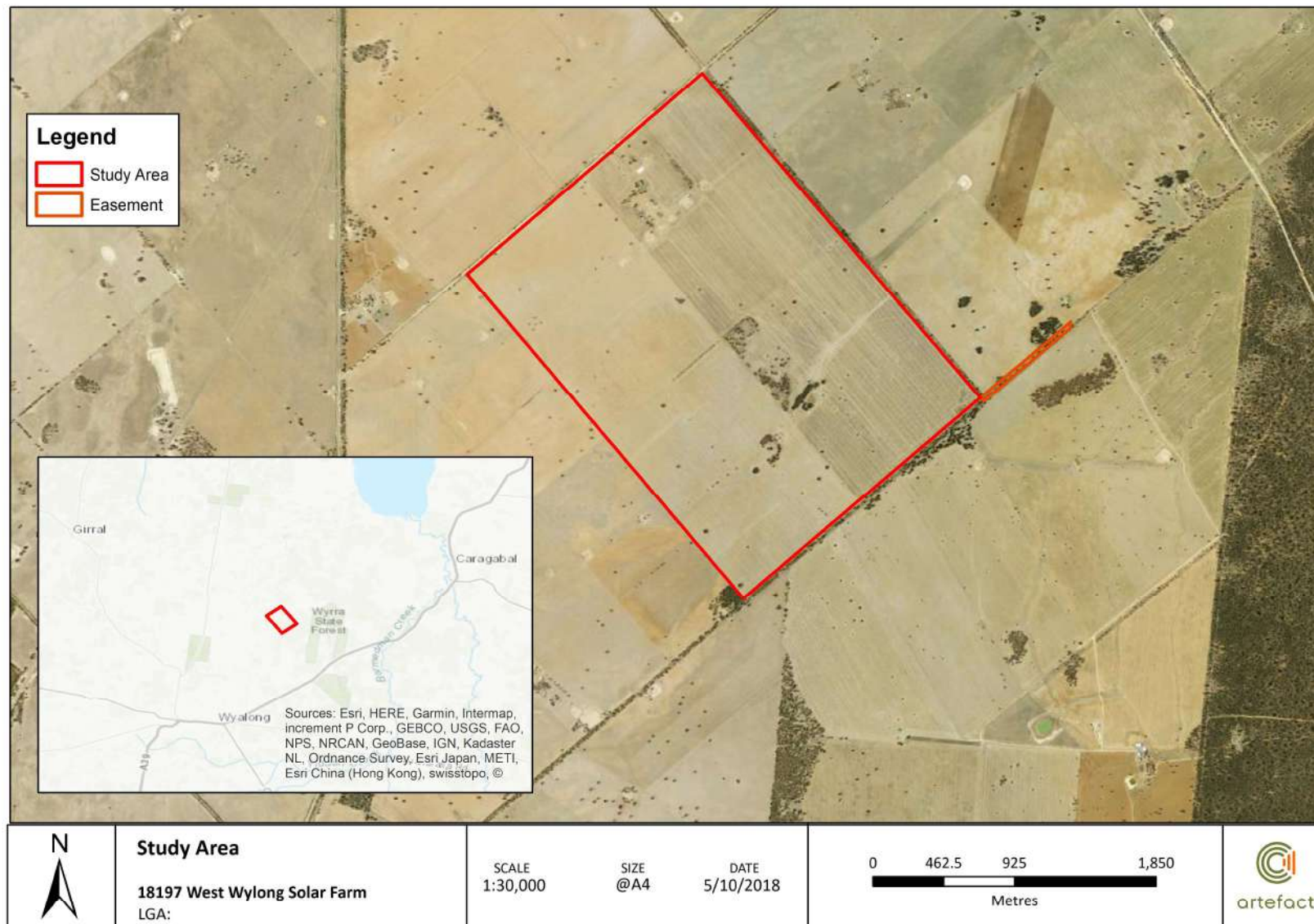
Kind Regards,



Jennifer Norfolk
Graduate Heritage Consultant
Artefact Heritage

Anna.darby@artefact.net.au
02 9518 8411

Figure 1: Map of study area



12 November 2018

Dear Alona Apps,

Re: West Wyalong Solar Farm, 228-230 Blands Lane: Proposed ACHAR Methodology

Thank you for registering as a stakeholder for the proposed redevelopment of West Wyalong Solar Farm. I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

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Jennifer Norfolk
Artefact Heritage
Level 4, Building B, 35 Saunders Street
Pymont NSW 2009

Or via email: jennifer.norfolk@artefact.net.au

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
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Lightsource Development Services Australia Pty Ltd is proposing the construction and operation of a solar farm in West Wyalong (228-230 Blands Lane, West Wyalong).

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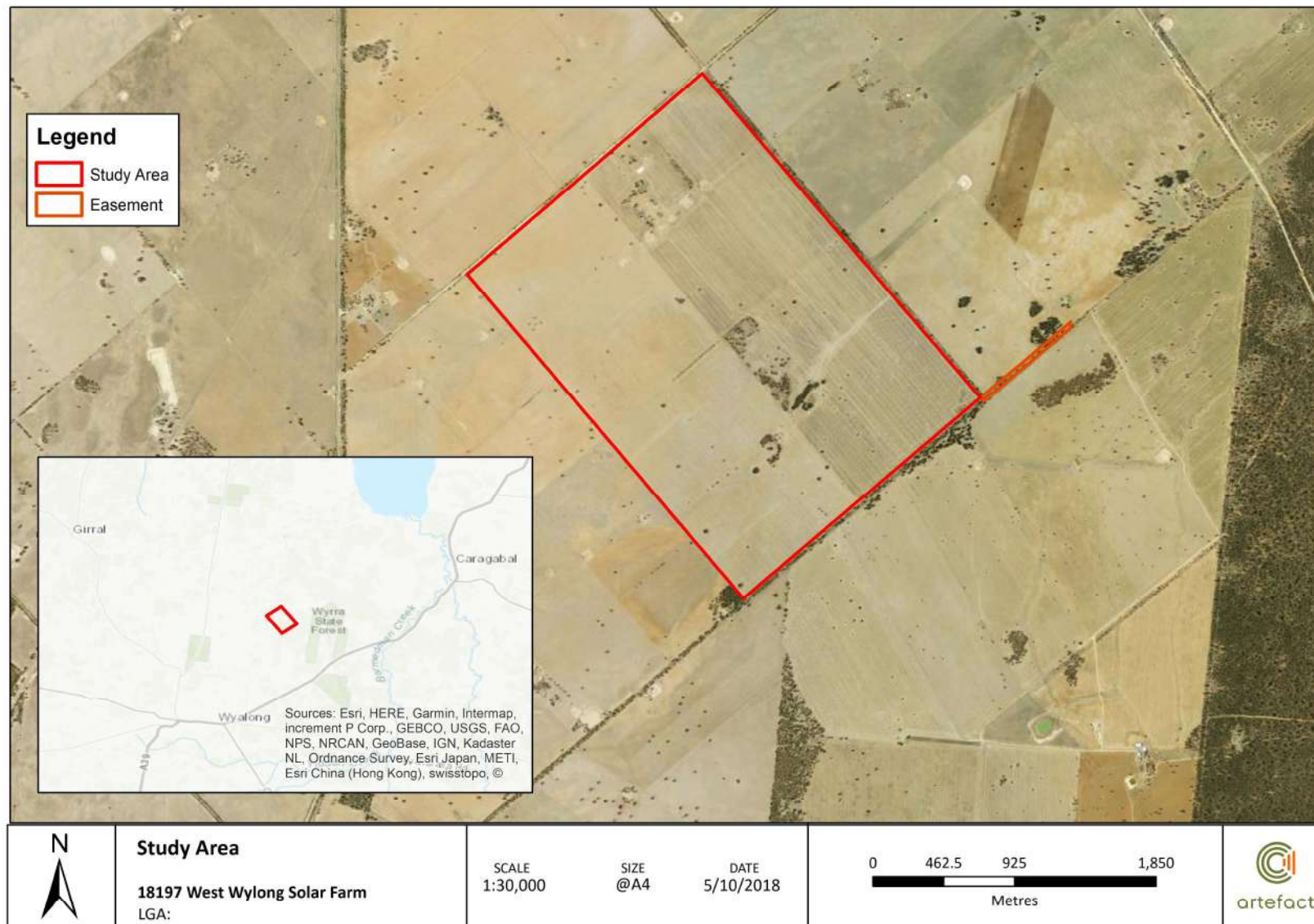
Kind Regards,



Jennifer Norfolk
Graduate Heritage Consultant
Artefact Heritage

Anna.darby@artefact.net.au
02 9518 8411

Figure 1: Map of study area



Document Path: C:\Users\GIS\Desktop\GIS\GIS_Mapping\18197 West Wyalong Solar Farm\MXD\Study Area.mxd

12 November 2018

Dear Krystal Ingram,

Re: West Wyalong Solar Farm, 228-230 Blands Lane: Proposed ACHAR Methodology

Thank you for registering as a stakeholder for the proposed redevelopment of West Wyalong Solar Farm. I am looking forward to working with you on this project. Included below are details of the project, and the proposed assessment methodology for your review.

If you would like to comment on the Aboriginal cultural heritage of the study area or the proposed methodology, please provide your response by **10 December 2018**. Please address your response to me at:

Jennifer Norfolk
Artefact Heritage
Level 4, Building B, 35 Saunders Street
Pymont NSW 2009

Or via email: jennifer.norfolk@artefact.net.au

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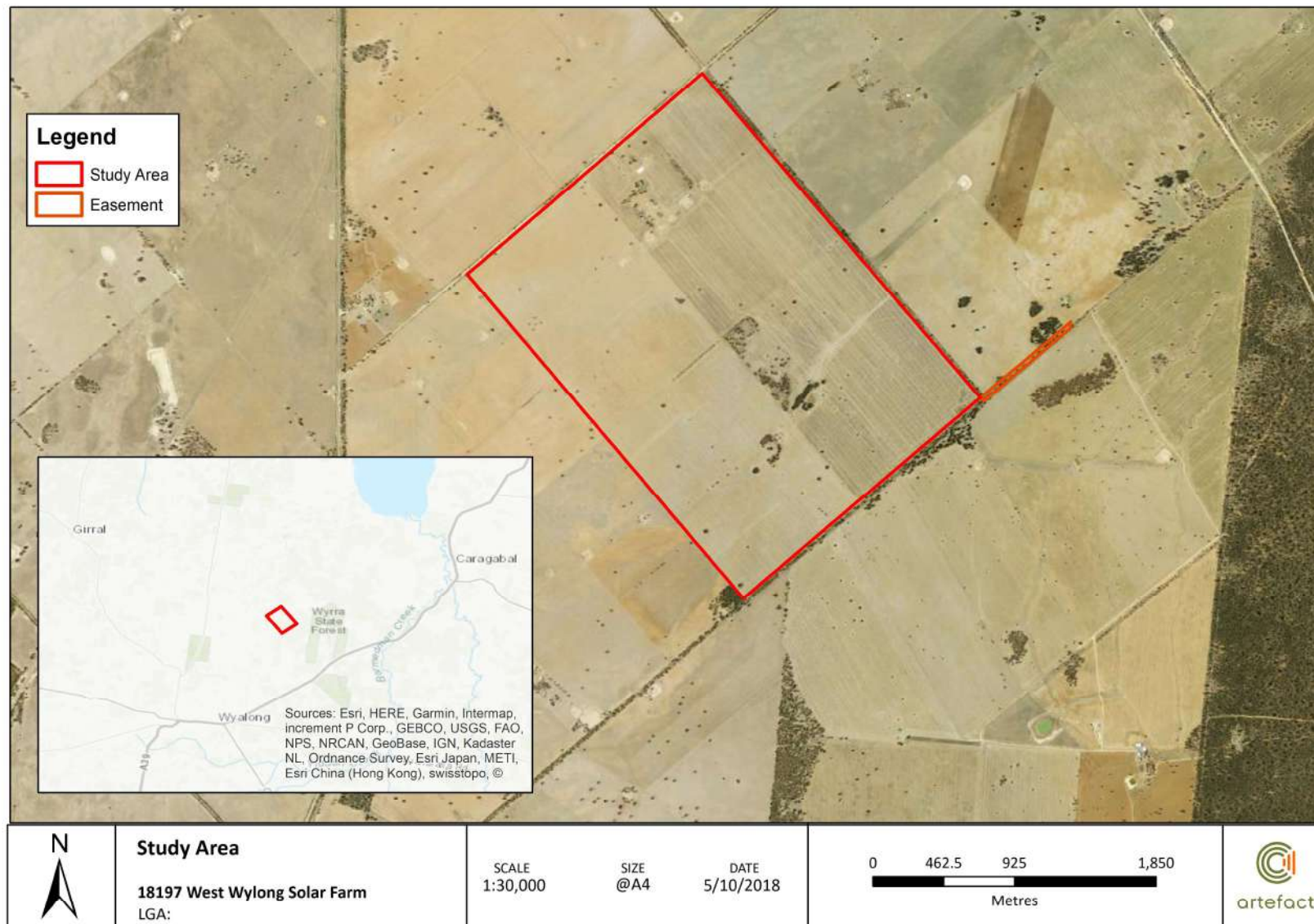
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Jennifer Norfolk
Graduate Heritage Consultant
Artefact Heritage

Anna.darby@artefact.net.au
02 9518 8411

Figure 1: Map of study area



Document Path: C:\Users\GIS\Desktop\GIS\GIS_Mapping\18197 West Wyalong Solar Farm\MXD\Study Area.mxd

12 November 2018

Dear Ms Hampton,

Re: West Wyalong Solar Farm, 228-230 Blands Lane: Proposed ACHAR Methodology

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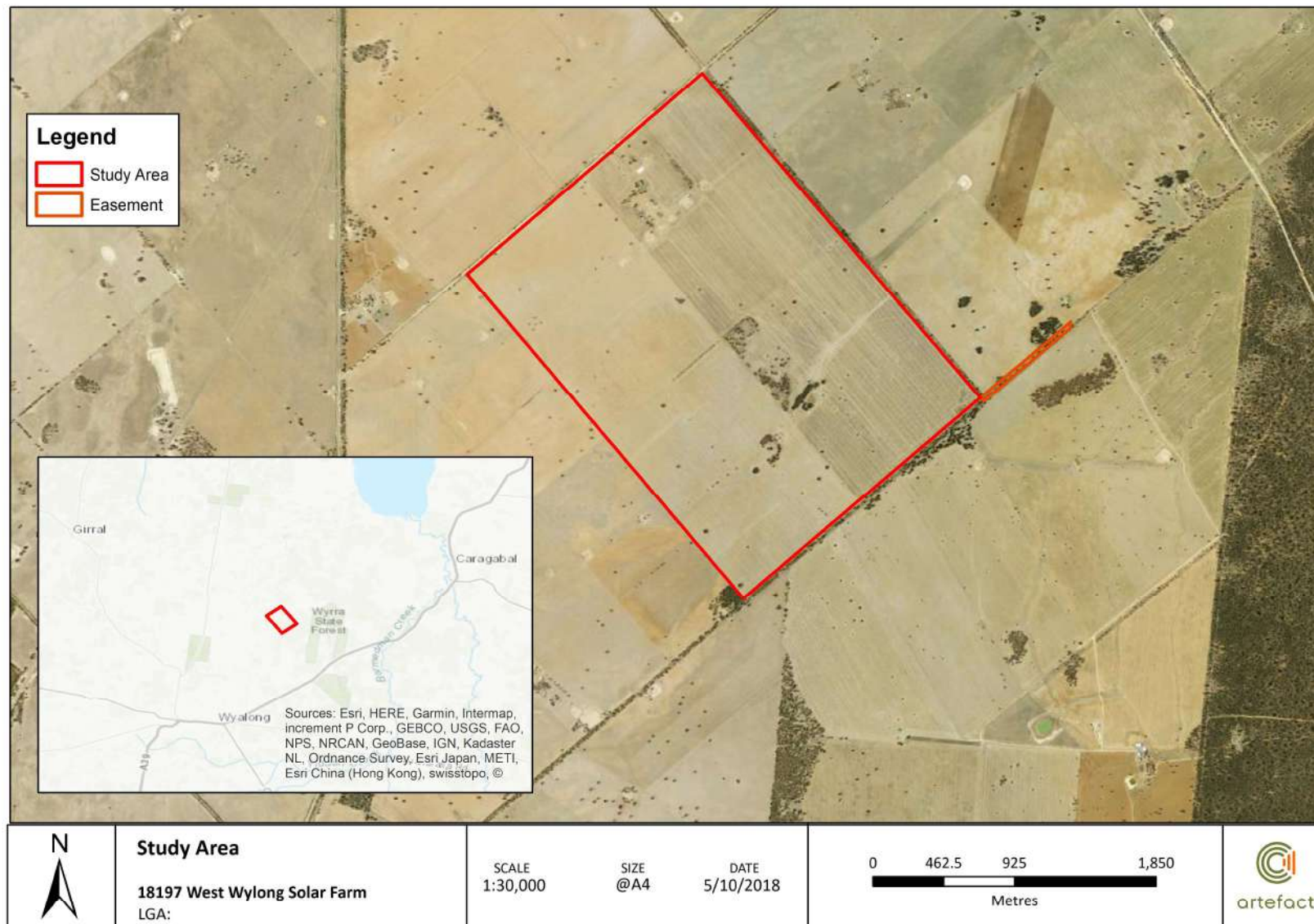
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Document Path: C:\Users\GIS\Desktop\GIS\GIS_Mapping\18197 West Wyalong Solar Farm\MXD\Study Area.mxd

ACHAR methodology mailed to Wiradjuri Council of Elders on 13 November 2018

8-11-18	PHIL ICHIAN	ACHAR	13-11-18	ACHAR	605 37415819 095
13-11-18	WIRADJURI COUNCIL OF ELDERS, NGANDAWHA	JEN			Sender to keep 605 37415818 095 Sender to keep

Anna Darby

From: West Wyalong LALC <ww.lalc@bigpond.com>
Sent: Monday, 10 December 2018 12:20 PM
To: Jennifer Norfolk
Cc: Anna Darby
Subject: RE: West Wyalong ACHAR methodology RAP review

Hi Jennifer, (and Anna),

I have reviewed the information below and look forward to receiving feedback from those that attend the meeting tomorrow. I am unable to attend however, I have asked Linton Howarth to attend on my behalf.

We have conducted surveys recently in the same vicinity and are aware of archaeological finds so we are certain that this proposed area will have similar features.

Thanks for the opportunity to comment.

Kind Regards

Leeanne Hampton

Chief Executive Officer
West Wyalong Local Aboriginal Land Council



76-78 Main St West Wyalong
NSW 2671
Ph 0269723493
Mob 0418723498



From: Jennifer Norfolk <Jennifer.norfolk@artefact.net.au>
Sent: Monday, 12 November 2018 3:11 PM
To: ww.lalc@bigpond.com
Subject: West Wyalong ACHAR methodology RAP review

12 November 2018

Dear Ms Hampton,

Re: West Wyalong Solar Farm, 228-230 Blands Lane: Proposed ACHAR Methodology

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Artefact Heritage
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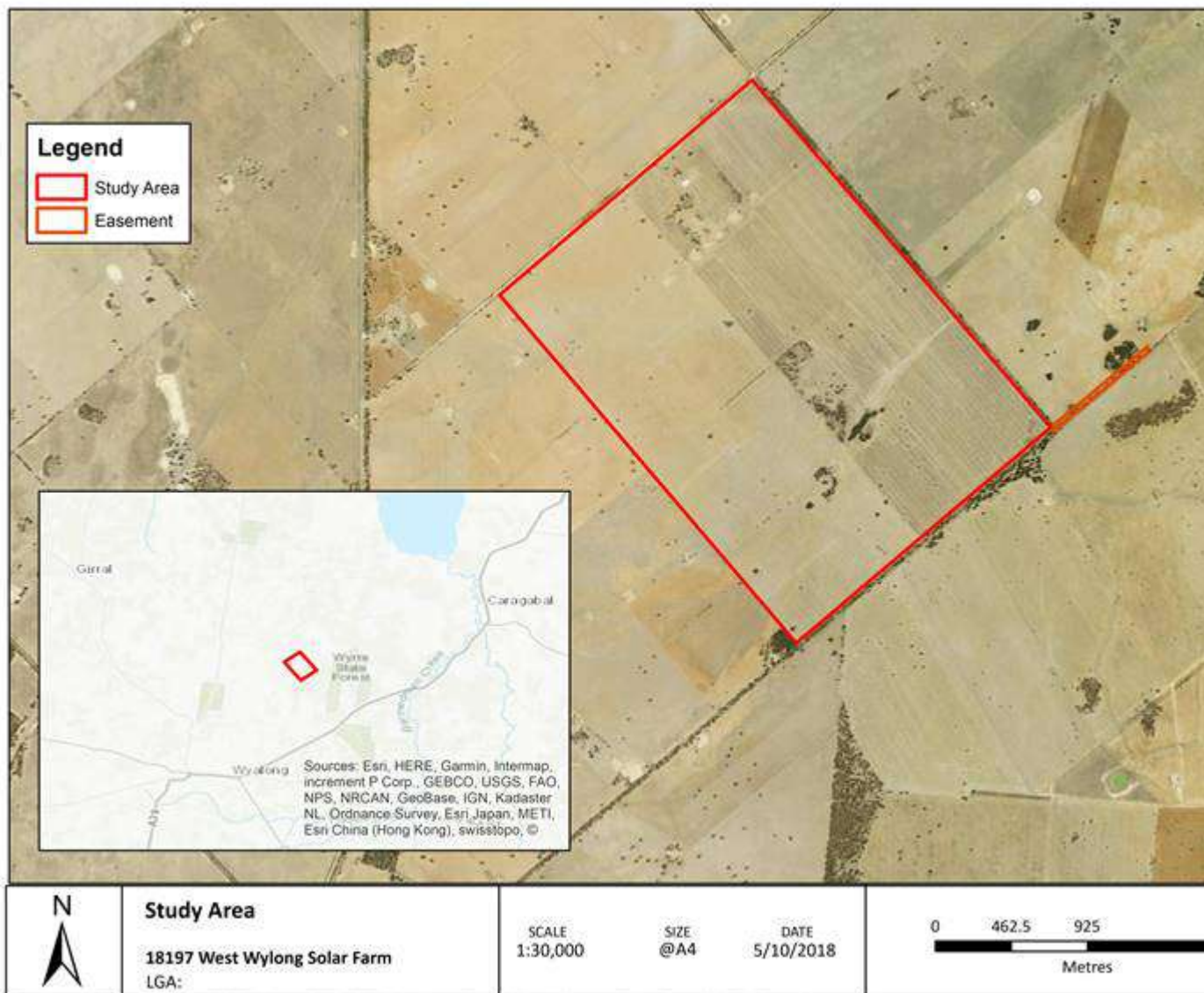
Kind Regards,



Jennifer Norfolk
Graduate Heritage Consultant
Artefact Heritage

Anna.darby@artefact.net.au
02 9518 8411

Figure 1: Map of study area



Document Path: C:\Users\GIS\Desktop\GIS\GIS_Mapping\18197 West Wylong Solar Farm\MXD\Study Area.mxd

A2 – ACHAR Draft sent to RAPs

Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:45 PM
To: 'rclegg55@gmail.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Robert Clegg,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

ACHAR: <https://artefact.app.box.com/file/378914128482>

We welcome any comments on the report and any cultural knowledge or stories you may know about the study area or the wider region. Lightsource BP are wanting to submit their planning application for the proposed works on Monday 14 January 2019 and have asked if your review of the report can be completed before then. However, as the consultation requirements provides Registered Aboriginal Parties a 28 day review period.

If you are unable to provide your responses to us by the 14 January 2019 please provide any comments by **Monday 4 February 2019**.


Thanks

Anna Darby
Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

Cultural Heritage Management | Archaeology | Heritage Interpretation

 *We acknowledge the Traditional Custodians of Country in which we live and work, and pay our respects to them, their culture and their Elders past, present and future*

Notice: This message contains privileged and confidential information intended only for the use of the addressee. If you are not the intended recipient you must not disseminate, copy or take any action in reliance upon it. If you received this in error, please notify us immediately.

Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:45 PM
To: 'younglalc62@gmail.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Norma Freeman,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

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Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:44 PM
To: 'younglalc62@gmail.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Jirrah Freeman,

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Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:44 PM
To: younglalc62@gmail.com
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Jahnayah Freeman,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

ACHAR: <https://artefact.app.box.com/file/378914128482>

We welcome any comments on the report and any cultural knowledge or stories you may know about the study area or the wider region. Lightsource BP are wanting to submit their planning application for the proposed works on Monday 14 January 2019 and have asked if your review of the report can be completed before then. However, the consultation requirements provides Registered Aboriginal Parties a 28 day review period.

If you are unable to provide your responses to us by the 14 January 2019 please provide any comments by **Monday 4 February 2019**.


Thanks

Anna Darby
Heritage Consultant

ARTEFACT

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Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:44 PM
To: 'younglalc62@gmail.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Marnie Freeman,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

ACHAR: <https://artefact.app.box.com/file/378914128482>

We welcome any comments on the report and any cultural knowledge or stories you may know about the study area or the wider region. Lightsource BP are wanting to submit their planning application for the proposed works on Monday 14 January 2019 and have asked if your review of the report can be completed before then. However, the consultation requirements provides Registered Aboriginal Parties a 28 day review period.

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Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:44 PM
To: 'younglalc62@gmail.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Keith Freeman,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

ACHAR: <https://artefact.app.box.com/file/378914128482>

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Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:43 PM
To: 'enid.clarke1@det.nsw.edu.au'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Enid Clarke,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

ACHAR: <https://artefact.app.box.com/file/378914128482>

We welcome any comments on the report and any cultural knowledge or stories you may know about the study area or the wider region. Lightsource BP are wanting to submit their planning application for the proposed works on Monday 14 January 2019 and have asked if your review of the report can be completed before then. However, as the consultation requirements provides Registered Aboriginal Parties a 28 day review period.

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Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:43 PM
To: 'alonaapps@bigpond.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Alona Apps,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

ACHAR: <https://artefact.app.box.com/file/378914128482>

We welcome any comments on the report and any cultural knowledge or stories you may know about the study area or the wider region. Lightsource BP are wanting to submit their planning application for the proposed works on Monday 14 January 2019 and have asked if your review of the report can be completed before then. However, as the consultation requirements provides Registered Aboriginal Parties a 28 day review period.

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Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:43 PM
To: 'alonaapps@bigpond.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Krystal Ingram,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

ACHAR: <https://artefact.app.box.com/file/378914128482>

We welcome any comments on the report and any cultural knowledge or stories you may know about the study area or the wider region. Lightsource BP are wanting to submit their planning application for the proposed works on Monday 14 January 2019 and have asked if your review of the report can be completed before then. However, as the consultation requirements provides Registered Aboriginal Parties a 28 day review period.

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Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:42 PM
To: 'lilly carroll'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Lillie Carrol and Paul Boyd,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

ACHAR: <https://artefact.app.box.com/file/378914128482>

We welcome any comments on the report and any cultural knowledge or stories you may know about the study area or the wider region. Lightsource BP are wanting to submit their planning application for the proposed works on Monday 14 January 2019 and have asked if your review of the report can be completed before then. However, the consultation requirements provides Registered Aboriginal Parties a 28 day review period.

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Anna Darby
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Anna Darby

From: Anna Darby
Sent: Monday, 7 January 2019 3:42 PM
To: 'wyalonglalc@gmail.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm: ACHAR review

Dear Leeanne Hampton,

Re: West Wyalong Solar Farm, West Wyalong

Please find attached a link to the Draft ACHAR for the proposed development at 120 Blands Lane, West Wyalong

ACHAR: <https://artefact.app.box.com/file/378914128482>

We welcome any comments on the report and any cultural knowledge or stories you may know about the study area or the wider region. Lightsource BP are wanting to submit their planning application for the proposed works on Monday 14 January 2019 and have asked if your review of the report can be completed before then. However, the consultation requirements provides Registered Aboriginal Parties a 28 day review period.

If you are unable to provide your responses to us by the 14 January 2019 please provide any comments by **Monday 4 February 2019**.


Thanks

Anna Darby
Heritage Consultant

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A2 – ACHAR Draft RAP Responses

No responses received

APPENDIX 3 – AFG AGENDA, ATTENDANCE AND MINUTES

Anna Darby

From: Anna Darby
Sent: Wednesday, 21 November 2018 9:41 AM
To: 'wyalonglalc@gmail.com'
Subject: FW: AFG Agenda
Attachments: AFG Agenda-18197-West Wyalong December 2018.pdf

Hi Leeanne,

After Vanessa mentioned that you hadn't received the registration of interest email I went back and looked through our log and it was sent to www.lalc@bigpond.com, not this email, our apologies.

I'm also forwarding you an email from Vanessa about the upcoming AFG on 11 December at 9:30am.


Hope you and Linton are both well.

Anna Darby
Graduate Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
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From: Vanessa Edmonds <Vanessa.Edmonds@artefact.net.au>
Sent: Tuesday, 20 November 2018 4:42 PM
To: ww.lalc@bigpond.com
Cc: Anna Darby <Anna.darby@artefact.net.au>
Subject: AFG Agenda

Hi Leanne,

Please find attached the Agenda for the upcoming AFG regarding West Wyalong Solar Farm. I would appreciate you passing this info on to anyone who may want to attend.


Regards Vanessa

Vanessa Edmonds
Principal

ARTEFACT

Telephone: 61 2 8570 1212 **Mobile:** 0429114188
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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Anna Darby

From: Vanessa Edmonds
Sent: Tuesday, 20 November 2018 4:44 PM
To: Enid.Clarke1@det.nsw.edu.au
Cc: Anna Darby
Subject: West Wyalong Solar Farm
Attachments: AFG Agenda-18197-Young LALC December 2018.pdf

Hi Enid,
Please find attached an Agenda for the West Wyalong Solar Farm AFG. I hope you will be able to attend.


Kind regards
Vanessa

Vanessa Edmonds
Principal

ARTEFACT

Telephone: 61 2 8570 1212 **Mobile:** 0429114188
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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Anna Darby

From: Vanessa Edmonds
Sent: Tuesday, 20 November 2018 4:42 PM
To: ww.lalc@bigpond.com
Cc: Anna Darby
Subject: AFG Agenda
Attachments: AFG Agenda-18197-West Wyalong December 2018.pdf

Hi Leanne,

Please find attached the Agenda for the upcoming AFG regarding West Wyalong Solar Farm. I would appreciate you passing this info on to anyone who may want to attend.


Regards Vanessa

Vanessa Edmonds
Principal

ARTEFACT

Telephone: 61 2 8570 1212 **Mobile:** 0429114188
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
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Anna Darby

From: Vanessa Edmonds
Sent: Tuesday, 20 November 2018 4:37 PM
To: rclegg55@gmail.com
Cc: Anna Darby
Subject: West Wyalong Solar Farm
Attachments: AFG Agenda-18197-Young LALC December 2018.pdf; AFG Agenda-18197-West Wyalong December 2018.pdf

Hi Robert,
Please find attached an Agenda for the West Wyalong Solar Farm AFG. Please feel free to attend either. I know when we spoke we talked about the 6 December but it appears there is some big Wiradjeri meeting on in Wagga that week. Hope you can still attend.


Regards Vanessa

Vanessa Edmonds
Principal

ARTEFACT

Telephone: 61 2 8570 1212 **Mobile:** 0429114188
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
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Anna Darby

From: Vanessa Edmonds
Sent: Tuesday, 20 November 2018 4:34 PM
To: didgengunawalclan@yahoo.com.au
Cc: Anna Darby
Subject: West Wyalong Solar Farm
Attachments: AFG Agenda-18197-Young LALC December 2018.pdf; AFG Agenda-18197-West Wyalong December 2018.pdf

Hi Paul, Lilly

Hope you are both well. Please find attached Agenda for the West Wyalong Solar Farm AFG. Both meetings are for the same project.


Regards Vanessa

Vanessa Edmonds
Principal

ARTEFACT

Telephone: 61 2 8570 1212 **Mobile:** 0429114188
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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Anna Darby

From: Anna Darby
Sent: Thursday, 6 December 2018 2:04 PM
To: 'wyalonglalc@gmail.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm AFG
Attachments: AFG Agenda-18197-West Wyalong December 2018.pdf

Hi Leeanne,

Just sending out a quick reminder about the AFG regarding the West Wyalong Solar Farm to be held on Tuesday 11 December 2018 at 9:30am.


I look forward to seeing you there.

Anna Darby
Graduate Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

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

Anna Darby

From: Anna Darby
Sent: Thursday, 6 December 2018 2:02 PM
To: 'younglalc62@gmail.com'; 'enid.clarke1@det.nsw.edu.au';
'alonaapps@bigpond.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm AFG
Attachments: AFG Agenda-18197-Young LALC December 2018.pdf

Hello,

This is a quick reminder about the AFG regarding the West Wyalong Solar Farm to be held on Tuesday 11 December 2018 at 2pm.


I look forward to seeing you there.

Anna Darby
Graduate Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
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Anna Darby

From: Anna Darby
Sent: Thursday, 6 December 2018 1:58 PM
To: 'rclegg55@gmail.com'
Cc: Michael Lever
Subject: West Wyalong Solar Farm AFG
Attachments: AFG Agenda-18197-Young LALC December 2018.pdf

Hello,

This is a quick reminder about the AFG regarding the West Wyalong Solar Farm to be held on Tuesday 11 December 2018 at 2pm.


I look forward to seeing you there.

Anna Darby
Graduate Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439
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Anna Darby

From: Anna Darby
Sent: Thursday, 6 December 2018 1:51 PM
To: 'lilly carroll'
Cc: Michael Lever
Subject: West Wyalong Solar Farm AFG
Attachments: AFG Agenda-18197-Young LALC December 2018.pdf; AFG Agenda-18197-West Wyalong December 2018.pdf

Hello,


This is a quick reminder of the upcoming AFG regarding the West Wyalong Solar Farm on Tuesday 11 December. I've attached the agenda for both the Young and West Wyalong locations

Anna Darby
Graduate Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439
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AGENDA—Aboriginal Focus Group - West Wyalong Solar Farm

Location of Meeting:	West Wyalong LALC 76-78 Main Street, West Wyalong
Date and time:	11 December 2018, 9.30 am
Facilitator:	Vanessa Edmonds (Artefact Heritage) Contact: 0429 11 41 88 or Vanessa.Edmonds@artefact.net.au

1. Welcome to country/acknowledgement (West Wyalong LALC)
2. Introductions and apologies (All)
3. Project presentation (Lightsource BP)
4. Archaeological assessment (Artefact Heritage)
5. Cultural assessment/values (West Wyalong LALC)_
6. Agreement on management & mitigation measures (All)
7. Next steps and timeframes (Artefact Heritage)
8. Other matters (All)



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AGENDA—Aboriginal Focus Group - West Wyalong Solar Farm

Location of Meeting:	Young LALC 247 Boorowa Street, Young
Date and time:	11 December 2018 2 pm
Facilitator:	Vanessa Edmonds (Artefact Heritage) Contact: 0429 11 41 88 or Vanessa.Edmonds@artefact.net.au

1. Welcome to country/acknowledgement (Young LALC)
2. Introductions and apologies (All)
3. Project presentation (Lightsource BP)
4. Archaeological assessment (Artefact Heritage)
5. Cultural assessment/values (Young LALC)
6. Agreement on management & mitigation measures (All)
7. Next steps and timeframes (Artefact Heritage)
8. Other matters (All)

WEST WYALONG SOLAR FARM AFG – MINUTES

Date and Time: Tuesday 11 December 2018, 9:30am

Location: West Wyalong Local Aboriginal Land Council, 76-78 Main Street West Wyalong

Acknowledgment of country

Linton Howarth

Introductions and apologies

Apologies:

Vanessa Edmonds, Leeanne Hampton

Attendance:

Anna Darby (Artefact), Michael Lever (Artefact), Polly Baranco (Lightsource BP), Linton Howarth (West Wyalong LALC), Amiee Davis (West Wyalong LALC).

Project presentation (Polly Baranco)

- Overview of Lightsource BP development as a company
- Examples of previous projects undertaken by Lightsource in the UK, India, and the United States and locations of the projects within AUS
- 2016 Lightsource came to Australia, BP became 43% owner → Lightsource BP
- Lightsource BP aims to be a long term partner within the community
- Overview of the statistics of the West Wyalong Solar Farm (WWSF)
 - a. 30-year lease with an option to extend another 10 years
 - b. Will create 350 construction jobs for 9-12 months
 - c. 3 ongoing skilled jobs

Artefact presentation (Michael Lever)

- Overview of the study area
- Overview of the description of works
- Overview of the ASR – location and landscape overview
- The study area within the landscape, sensitive landscape features such as the Booberoi Hills, Waterways, Lake Cowal
- Soils within the study area, Gilgai displacing artefacts and the clayey soils causing soaks (Linton Howarth noted that clearing would have affected the soaks)
- Mallee country, Aboriginal people were able to extract water from Mallee roots

- Linton Howarth also noted that the rocks wells in the nearby Booberoi Ranges would also be used a water sources, also noted that the Booberoi Ranges could have been a women's site – rough translation of 'Booberoi' is 'women beating drums'
- Overview of non-Aboriginal (historical) context
 - a. Change of lease holders
 - b. Homestead leases too small to live off
 - c. Land heavily farmed
- Predictive model of study area
- Overview of the survey units and the results of the survey
- Overview of the impact of proposed development
- Proposed management of impacts

Advice and comments by West Wyalong LALC

- Cultural heritage training to all workers on site

WWSF Bee Tree

- Should be fenced at the dripline
- Noted tree is located between the boundary fence and the 2m fence surrounding the solar panels
- Everyone agreed on permanent (for the life of the solar farm) fencing of NO GO zone around tree
- Signage: debate about whether the sign should advise the area is of cultural heritage, decided that due to the limited access of the general public to the location the signage should state the NO GO zone location is an Aboriginal cultural site
- Tree health to be checked on in conjunction with the maintenance of project plantings along Blands Lane.

Artefacts

- Surface collection of WWSF IF01 and WWSF IF02 and the artefacts within WWSF AS01 that will be impacted, leaving in place the 4 artefacts between the boundary fence and the 2m fence
- Artefacts to be analysed by Artefact's artefact specialist and placed with the WW LALC (if the Young LALC agree)
- Asked whether a section 42 permit was required for the surface collection of artefacts. (M. Lever subsequently confirms that this is not required as the study area is private leasehold)

Other

- Linton Howarth asked about the levels of disturbance associated with the actual construction of the solar panels. Polly Baranco explained method of construction is base posts piled into ground at 0.8 m spacing.

- Re: trenching for subsurface cables, a discussion occurred about having the disturbance monitored by a representative of the LALC. Or having the spoil looked at for artefacts.

Time frames discussed

- West Wyalong LALC closed for Christmas 22 December 2018 -3 January 2019
- Lightsource BP and Artefact Heritage closed 22 December 2018 – 2 January 2019
- Planning application early January
- Hopefully break ground mid 2019
- ACHAR due for RAP review mid Jan 2019

WEST WYALONG SOLAR FARM AFG – MINUTES

Date and Time: Tuesday 11 December 2018, 2pm

Location: Young Local Aboriginal Land Council, 247 Boorowa Street, Young

Welcome to country

Alona Apps

Introductions and apologies

Apologies:

Vanessa Edmonds, Enid Clarke, Marnie Freeman, Nayah Freeman, Jirrah Freeman, Krystal Ingram, Keith Freeman

Attendance:

Anna Darby (Artefact), Michael Lever (Artefact), Polly Baranco (Lightsource BP), Alona Apps (Young LALC), Norma Freeman (CEO, Young LALC)

Project presentation (Polly Baranco)

- Overview of Lightsource BP development as a company
- Examples of previous projects undertaken by Lightsource in the UK, India, and the United States and locations of the projects within AUS
- 2016 Lightsource came to Australia, BP became 43% owner → Lightsource BP
- Lightsource BP aims to be a long term partner within the community
- Overview of the statistics of the West Wyalong Solar Farm (WWSF)
 - a. 30-year lease with an option to extend another 10 years
 - b. Will create 350 construction jobs for 9-12 months
 - c. 3 ongoing skilled jobs

Artefact presentation (Michael Lever)

- Overview of the study area
- Overview of the description of works
- Overview of the ASR – location and landscape overview
- The study area within the landscape, sensitive landscape features such as the Booberoi Hills, Waterways, Lake Cowal
- Soils within the study area, Gilgai displacing artefacts and the clayey soils causing soaks
- Mallee country, Aboriginal people were able to extract water from Mallee roots

- Overview of non-Aboriginal (historical) context
 - a. Change of lease holders
 - b. Homestead leases too small to live off
 - c. Land heavily farmed
 - d. Large amount of soil degradation
- Predictive model of study area
- Overview of the survey units and the results of the survey
- Overview of the impact of proposed development
- Proposed management of impacts

Advice and comments

- Cultural heritage training to all workers on site. Should be through West Wyalong LALC

WWSF Bee Tree

- Should be fenced at the dripline
- Noted tree is located between the boundary fence and the 2m fence surrounding the solar panels
- Agreement on need for permanent (life of the solar farm) fencing of a NO GO zone around tree
- Signage: debate about whether the sign should state this is an area of cultural heritage.
Concerns that identifying the area as a cultural site would lead to vandalism. On the other hand, that not identifying the area could lead to accidental destruction. Young LALC agrees to go with whatever West Wyalong LALC would prefer.
- Tree health to be checked on in conjunction with the maintenance of the project planting along Blands Lane.

Artefacts

- Surface collect of WWSF IF01 and WWSF IF02 and the artefacts within WWSF AS01 that will be impacted, leave the 4 between the boundary fence and the 2m fence.
- Artefacts to be analysed by Artefact's artefact specialist. Discussion as to whether the artefacts be reburied or placed with the WW LALC as a teaching collection (Young LALC state happy with West Wyalong LALC to have final say and to let West Wyalong LALC use these for a teaching collection)
- Surface collection to be conducted by two Artefact staff and representatives of West Wyalong and Young LALCs. Collection and analysis to be conducted in the same trip.

Other

- Young LALC note their (absent) elders would insist that a representative of Young LALC be present during any ground disturbance such as for cable installation. Such opportunities to inspect exposed soil condition and potential soil inclusions are not common and are of great

value to them in gaining better knowledge of potential soil and archaeological conditions in the region.

Time frames discussed

- Young LALC closed for Christmas 22 December 2018 – beginning February 2019
- Lightsource BP and Artefact Heritage closed 22 December 2018 – 2 January 2019
- Planning application early January
- Hopefully break ground mid 2019
- ACHAR due for RAP review mid Jan 2019



artefact

DAILY ATTENDANCE REGISTER

NEST WYALONG SURVEY FARM

Site: West Wyalong AFL Date: 11.12.18

Name	Organisation	Time In	Sign	Time Out	Sign
Aruna Deyan	Artefact				
Aime Davis	NWFLAU				
Linton Heath	Grange Heath				
Polly Baranco	Lynbourne BP				
Michael Levet	Artefact				



artefact

Nest Warrong Solar Farm

DAILY ATTENDANCE REGISTER

Site: Young ATG - West Wyalong Solar Date: 11-12-18

Name	Organisation	Time In	Sign	Time Out	Sign
Anna Barry	Artefact				
Akron Apts	Young LALC	2pm			
Norma Green	Young LALC	2pm			
Polly Baranco	Lightsource BP	2pm			
Michael Laver	Artefact				

APPENDIX 4 – ARCHAEOLOGICAL SURVEY REPORT

West Wyalong Solar Farm

Aboriginal Archaeological Survey Report

Report to Lightsource Development
Services Australia

Bland Shire Local Government Area

March 2019



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FINAL

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EXECUTIVE SUMMARY

Artefact Heritage Services Pty Ltd (Artefact Heritage) has been engaged by Lightsource Development Services Australia Pty Ltd to prepare an archaeological survey report (ASR) for construction and operation of a 250MW DCsolar farm in West Wyalong. The solar farm will be constructed on two rural lots at 228-230 Blands Lane, West Wyalong comprising a total of 560 hectares (ha)the study area.

The proposal is a State Significant Development (SSD), application number SSD_18_9504. The NSW Department of Planning and Environment issued Secretary's Environmental Assessment Requirements (SEARS) for this project on 21 September 2018 (SEARS 2018).

An archaeological survey of the site was undertaken in conjunction with the West Wyalong Local Aboriginal Land Council (LALC) over three days from 9 October to 11 October 2018.

The Aboriginal archaeological survey found that:

- No previously recorded Aboriginal sites are located within the study area
- Four newly identified sites were located within the study area
- No areas of potential archaeological deposit were identified within the study area
- The study area is of moderate Aboriginal archaeological sensitivity

The following recommendations have yet to be ratified through consultation with the registered Aboriginal parties for the study area. The Aboriginal cultural heritage consultation requirements for proponents 2010 (Consultation Requirements) (DECCW 2010b) have commenced, and an Aboriginal Cultural Heritage Assessment Report (ACHAR) is in preparation (Artefact Heritage in prep).

- An ACHAR must be prepared in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (OEH 2011). The ACHAR would outline further mitigation measures which would be required prior to construction and identify registered Aboriginal parties for the project through the Consultation Requirements.
- Where avoidance is possible permanently fenced (for the lifetime of the solar farm) NO GO zones must be implemented prior to construction and the sites identified on all construction plans.
- A permanently fenced buffer (for the lifetime of the solar farm) should be constructed around WWSF Bee Tree 01 (AHIMS ID 43-4-0058) at the dripline in consultation with an ecologist or arborist. Tree health is to be maintained during construction and operation of the solar farm.
- Where impacts are to occur to WWSF IF01 (AHIMS ID 43-4-0056), WWSF IF02 (AHIMS ID 43-4-0071), and WWSF AS01 (AHIMS ID 43-4-0057) all surface artefacts associated with these sites must be collected. Surface collection must be undertaken by a qualified archaeologist in conjunction with representatives from the registered Aboriginal parties identified for the project. Detailed analysis and recording of all collected stone artefacts and collation of data in a salvage report.
- Surface collection or salvage of surface artefacts may only occur following development consent for the West Wyalong Solar Farm

- An Aboriginal Site Impact Recording Form (ASIRF) must be completed following any impacts to identified sites in the study area as a result of archaeological salvage or project construction.
- At the end of the operational life of the solar farm a reassessment of the NO GO zones should be conducted for future protection of the sites.
- Aboriginal cultural heritage awareness training should be provided to key construction personnel.
- Unexpected finds remain protected under the NPW Act. If unforeseen Aboriginal objects are uncovered during construction, work must cease, and an archaeologist, OEH and West Wyalong LALC must be informed.
- If changes are made to the proposed works which could impact locations outside of the current study area, further archaeological investigation may be required.
- If suspected human remains are located during any stage of the proposed works, work must stop immediately, and the NSW police must be notified. The OEH should be notified if the remains are found to be Aboriginal ancestral remains.

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ABBREVIATIONS

ACHAR	Aboriginal Cultural Heritage Assessment Report
AHIP	Aboriginal Heritage Impact Permit
AHIMS	Aboriginal Heritage Information Management System
AHMS	Archaeological and Heritage Management Solutions
ALR Act	<i>Aboriginal Land Rights Act 1983</i>
Artefact Heritage	Artefact Heritage Services Pty Ltd
ASR	Archaeological Survey Report
ATSHIP Act	<i>Aboriginal and Torres Strait Islander Heritage Protection Act 1984</i>
BP	Before Present (that is 1950)
Consultation Requirements	Aboriginal cultural heritage consultation requirements for proponents 2010
Code of Practice	Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales 2010
DC	Direct Current
DCP	Development Control Plan
DECCW	Department of Environment, Climate Change and Water (now OEH)
Due Diligence Code of Practice	Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales
EIS	Environmental Impact Assessment
EPBC Act	<i>Environment Protection and Diversity Conservation Act 1999</i>
Guide	Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW
GPS	Global Positioning System
ha	hectares
km	kilometres
KNC	Kelleher Nightingale Consulting Pty Ltd
JMcD CHM	Jo McDonald Cultural Heritage Management
LALC	Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	Local Government Area
m	metres

MW	megawatt
m	metres
mm	millimetres
NHL	National Heritage List
NPW Act	<i>National Parks and Wildlife Act 1974</i>
OEH	Office of Environment and Heritage
PAD	Potential Archaeological Deposit
RNE	Register of the National Estate
RAP	Registered Aboriginal Party
SEARs	Secretary's Environmental Assessment Requirements
SSD	State Significant Development
WWSF	West Wyalong Solar Farm

1.0 INTRODUCTION

1.1 Background

Lightsource Development Services Australia Pty Ltd (the proponent) are proposing to construct and operate a 112 megawatt (MW) solar farm in West Wyalong. The proposed solar farm will be constructed on two rural lots at 228-230 Blands Lane, West Wyalong (Figure 1.1).

On 21 September 2018, the project was assessed as being State Significant Development (SSD) (SSD_18_9504) and requiring the preparation of an Environmental Impact Assessment (EIS). The NSW Department of Planning and Environment issued Secretary's Environmental Assessment Requirements (SEARs) for the preparation of the EIS with the following requirements for heritage assessment:

Heritage – including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including consultation with the local Aboriginal community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents (SSD_18_9504)

The proponent has engaged Artefact Heritage Services Pty Ltd (Artefact Heritage) to prepare the assessment of Aboriginal and non-Aboriginal cultural heritage values for the EIS through preparation of an Aboriginal Cultural Heritage Assessment Report (ACHAR) and Historical Archaeological Assessment (HAA).

This Aboriginal archaeological survey report (ASR) has been prepared to support the Aboriginal Cultural Heritage Assessment Report (Artefact Heritage 2018a). The HAA will form a separate document (Artefact Heritage 2018b).

1.2 Study area

The study area consists of two rural lots (Lot 17 and Lot 18 in DP753081) at 228- 230 Blands Lane, West Wyalong comprising a total of 560 hectares (ha) (Figure 1.1). The study area is fronted by Blands Lane to the north. It is located within the Bland Shire Local Government Area (Bland Shire LGA) within the Parish of Clear Ridge and County of Gipps. It is contained within the boundary of West Wyalong Local Aboriginal Land Council (West Wyalong LALC).

1.3 Description of works

Figure 1.2 shows the current proposed layout of the solar farm. The proposed components of the solar farm would comprise:

- Installation of approximately 296,000 solar panels in the south part of the study area. These will be placed on a mounting structure with tracking capabilities. Each panel will be approximately 1.95 metres (m) x 0.992 m with a depth of 50 millimetres (mm). They will be dark blue in colour with an aluminium frame and will be coated with an anti-reflective coating in order to maximise daylight absorption.
- Substation and battery energy storage system.
- Internal access roads and access points.

- Perimeter security fencing.
- Powerline easement from substation to existing powerline.

Power generated by the facility will be transmitted to the local energy grid via a new substation to be installed on the site. Access to the facility will be from Blands Lane.

1.4 Study objectives

The objectives of this ASR are to identify and record Aboriginal archaeological values, identify and record Aboriginal cultural values where possible and provide management and mitigation recommendations for Aboriginal archaeological sites located within the study area in accordance with:

- Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (Code of Practice) (Department of Environment, Climate Change & Water [DECCW] 2010a)

This ASR will be provided as an appendix to the ACHAR that is currently being prepared (Artefact Heritage 2018b).

1.5 Authorship

Anna Darby (Heritage Consultant, Artefact Heritage) completed the archaeological survey and wrote this report. Anna has a Bachelor of Science (Honours) and has three years' experience in archaeological fieldwork including Aboriginal cultural heritage surveys across the Sydney Basin.

Michael Lever (Senior Heritage Consultant, Artefact Heritage) managed the project and supervised the field survey, and provided input and review to the report. Michael has a Bachelor of Arts (Honours) in archaeology, is a current PhD candidate in archaeology at the University of Sydney and has eight years' experience in archaeological survey in NSW, Victoria and WA.

Vanessa Edmonds (Principal, Artefact Heritage) provided project direction and technical review. Vanessa has a Masters degree in Archaeology and Palaeoanthropology and has over 30 years' experience undertaking Aboriginal cultural heritage surveys nationwide.

1.6 Aboriginal community involvement

An archaeological survey of the study area was undertaken over three days from 9 to 11 October 2018, together with representatives of the West Wyalong Local Aboriginal Land Council (LALC).

1.7 Report structure

- **Section 2** - Legislative context: outlines relevant legislation for this assessment
- **Section 3** - Environmental context: Provides a succinct overview of the environmental context of the proposal
- **Section 4** - Aboriginal historical and archaeological context: Provides an overview of the Aboriginal history of the area and the results of previous archaeological investigation
- **Section 5** - Archaeological survey: Describes the survey conducted for this assessment and the results
- **Section 6** – Results: Describes the Aboriginal sites present within the study area

- **Section 7** – Analysis and discussion: Provides a discussion of the results of the site survey
- **Section 8** - Significance assessment: Provides an assessment of the archaeological significance of the study area
- **Section 9** - Impact assessment: Assesses potential impacts to identified Aboriginal sites and areas of archaeological potential.
- **Section 10** - Management measures: Outlines relevant management and mitigation measures for the proposal.
- **Section 11** – Recommendations: Outlines recommendations for future assessment as required

Figure 1.1: Study area 228-230 Blands Lane, West Wyalong

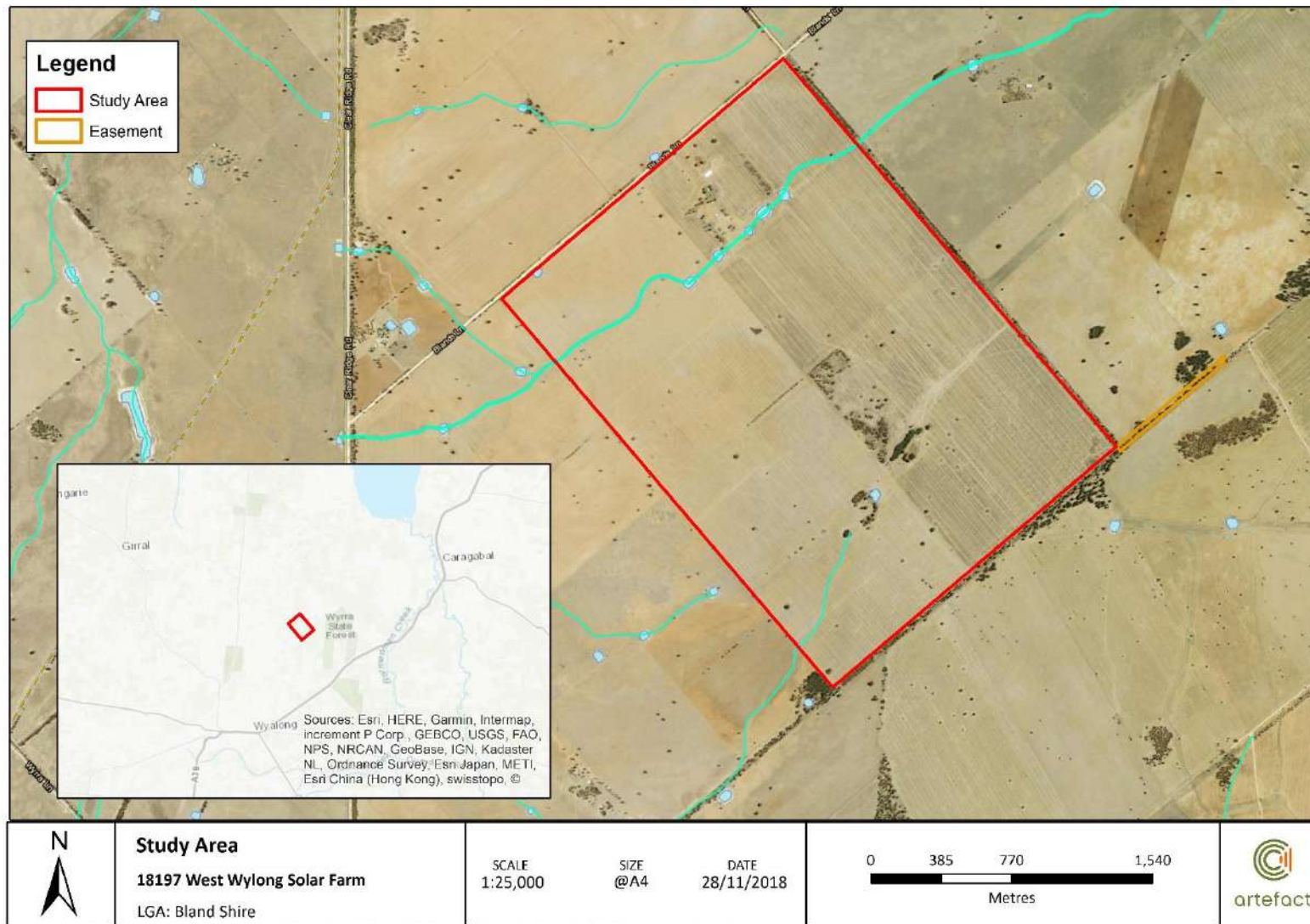
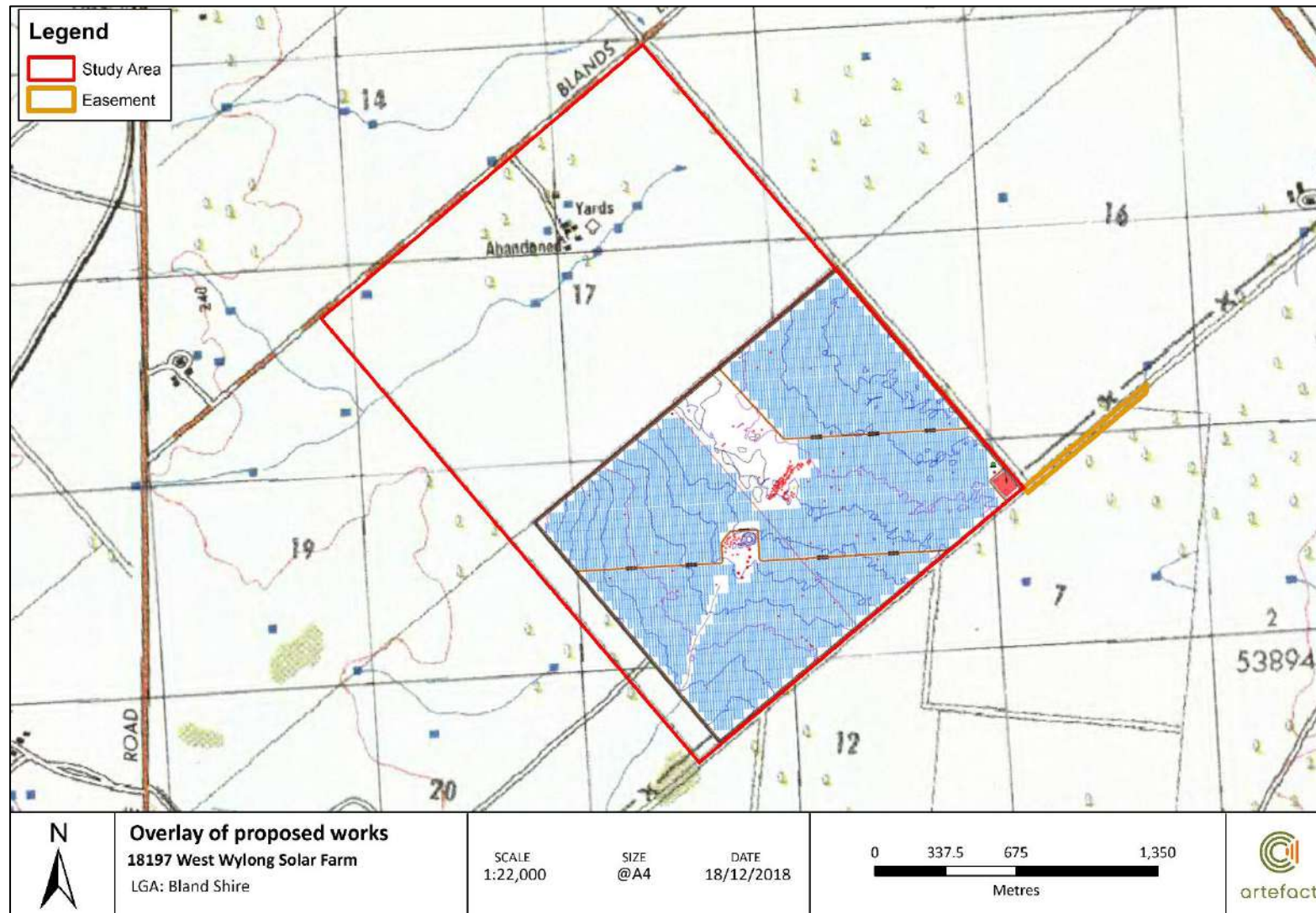


Figure 1.2: West Wyalong Solar Farm layout



2.0 LEGISLATIVE CONTEXT

2.1 State legislation

2.1.1 *National Parks and Wildlife Act 1974*

The *National Parks and Wildlife Act 1974* (NPW Act) provides statutory protection to all Aboriginal Places and objects. An Aboriginal object is defined by the NPW Act as:

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.

Aboriginal Places are declared by the minister under Section 84 of the NPW Act by order of publishing in the Government Gazette. Aboriginal Places are listed on the NSW Heritage Database also known as the NSW Heritage Inventory. Aboriginal Places are not listed on the State Heritage Register unless they have also been through a State Heritage Register nomination and listing process with the Heritage Council and Minister for Heritage.

The protection provided to Aboriginal objects applies irrespective of the level of their significance or issues of land tenure. Aboriginal objects and places are afforded automatic statutory protection in NSW whereby it is an offence to knowingly or unknowingly harm or desecrate an Aboriginal object or Aboriginal Place under Section 86 of the NPW Act.

In accordance with Section 89A any person who is aware of the location of an Aboriginal object must in the prescribed manner, notify the Chief Executive within a reasonable time after the person first becomes aware of that object. The prescribed manner is to complete an Aboriginal Heritage Information Management System Site Recording Form (DECCW 2010a: 14).

In order to undertake a proposed activity which is likely to involve harm to an Aboriginal Place or object, it is necessary to apply to the Office of Environment and Heritage (OEH) for an Aboriginal Heritage Impact permit (AHIP). AHIPs are issued by OEH under Section 90 of the NPW Act, and permit harm to certain Aboriginal objects or Aboriginal Places.

The West Wyalong Solar Farm has been designated SSD_ (18_9504) and under Part 4, Division 4.7, section 4.41 of the *Environmental Planning and Assessment Act 1979* an AHIP is not required for SSD that is authorised by a development consent (section 2.1.4).

There are no gazetted Aboriginal places within the proposal areas. All Aboriginal objects, whether recorded or not, are protected under the NPW Act. Section 6.0 presents information on Aboriginal objects located in the study area.

2.1.2 *Native Title Act 1994*

The *Native Title Act 1994* 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. There are no Native Title claims currently registered in the study area.

2.1.3 *Aboriginal Lands Right Act 1983*

The *Aboriginal Land Rights Act 1983* (ALR Act) established Aboriginal Land Councils (at State and Local levels). These bodies have a statutory obligation under the ALR Act to:

- (a) take action to protect the culture and heritage of Aboriginal persons in the council's area, subject to any other law, and
- (b) promote awareness in the community of the culture and heritage of Aboriginal persons in the council's area.

The study area is within the boundary of West Wyalong LALC.

2.1.4 *Environmental Planning and Assessment Act 1979*

The *Environmental Planning and Assessment Act 1979* (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, Part 4 which relates to development assessment processes for local government (consent) authorities, and Part 5 which relates to activity approvals by governing (determining) authorities.

Part 4, Division 4.7 of the EP&A Act specifies that any State environmental policy may declare any development to be State significant development as can the Minister, by a Ministerial planning order.

The West Wyalong Solar Farm has been designated State Significant Development (SSD_18_9504).

Under Part 4, Division 4.7, section 4.41 the following authorisations are not required for State significant development that is authorised by a development consent granted after the commencement of this Division (and accordingly the provisions of any Act that prohibit an activity without such an authority do not apply):

1 (c) an approval under Part 4, or an excavation permit under section 139, of the *Heritage Act 1977*

1 (d) an Aboriginal heritage impact permit under section 90 of the *National Parks and Wildlife Act 1974*

2 Division 8 of Part 6 of the *Heritage Act 1977* does not apply to prevent or interfere with the carrying out of State significant development that is authorised by a development consent granted after the commencement of this Division.

The State Environmental Planning Policy (State and Regional Development) 2011 (Part 2 (11)) also excludes the application of development control plans for State significant development.

Under Part 5, Division 5.1 (environmental impact assessment) the determining authority cannot carry out an activity or grant approval for an activity that is likely to significantly affect the environment unless an environmental impact statement is prepared.

2.2 Commonwealth legislation

2.2.1 *Environment Protection and Biodiversity Conservation Act 1999*

The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) provides a legislative framework for the protection and management of matters of national environmental significance, that is, flora, fauna, ecological communities and heritage places of national and

international importance. Heritage items are protected through their inscription on the World Heritage List (WHL), Commonwealth Heritage List (CHL) or the National Heritage List (NHL).

Under Part 9 of the EPBC Act, approval under the EPBC Act is required for any action occurring within, or outside, a Heritage place that has, will have, or is likely to have a 'significant impact' on the heritage values of a World, National or Commonwealth heritage listed property (referred to as a 'controlled action' under the Act). A 'significant impact' is defined as:

an impact which is important, notable, or of consequence, having regard to its context or intensity. If an action is likely to have a significant impact depends upon the sensitivity, value, and quality of the environment which is impacted, and upon the intensity, duration, magnitude and geographic extent of the impacts.

The EPBC Act stipulates that a person who has proposed an action that will, or is likely to, have a significant impact on a site that is listed on the WHL, NHL or CHL must refer the action to the Minister for Sustainability, Environment, Water, Population and Communities (hereafter the Minister). The Minister will then determine if the action requires approval under the EPBC Act. If approval is required, an environmental assessment would need to be prepared. The Minister would approve or decline the action based on this assessment.

There are no WHL, NHL or CHL listed sites within the study area.

2.2.2 *Australian Heritage Council Act 2003*

The Register of the National Estate (RNE) is an evolving record of Australia's natural, cultural and Aboriginal heritage places that are worth keeping for the future. The Australian Heritage Commission compiles and maintains the RNE under the *Australian Heritage Council Act 2003*. Places on the RNE that are in Commonwealth areas, or subject to actions by the Australian Government, are protected under the EPBC Act by the same provisions that protect Commonwealth heritage places (see above).

Following amendments to the *Australian Heritage Council Act 2003*, the RNE was frozen on 19 February 2007, meaning no new places can be added, or removed. The RNE is now maintained on a non-statutory basis as a publicly available archive within the Australian Heritage Database and contains over 13,000 places including many places of local or State significance.

There are no sites listed on the RNE within the study area.

2.2.3 *Aboriginal and Torres Strait Islander Heritage Protection Act 1984*

The Commonwealth *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* (ATSIHP Act), deals with Aboriginal cultural property (intangible heritage) in a wider sense. Such intangible heritage includes any places, objects and folklore that 'are of particular significance to Aboriginals in accordance with Aboriginal tradition'. These values are not currently protected under the NPW Act.

There is no cut-off date and the ATSIHP Act may apply to contemporary Aboriginal cultural property as well as ancient sites. The ATSIHP Act takes precedence over state cultural heritage legislation where there is conflict. The Commonwealth Minister who is responsible for administering the ATSIHP Act can make declarations to protect these areas and objects from specific threats of injury or desecration. The responsible Minister may make a declaration under Section 10 of the Commonwealth Act in situations where state or territory laws do not provide adequate protection of intangible heritage.

Where an Aboriginal individual or organisation is concerned that intangible values within the proposal are not being adequately protected they can apply to the Minister for a declaration over a place.

No intangible places were identified during the survey or the background research.

3.0 ENVIRONMENTAL CONTEXT

The environmental context of the study area is to assist in the prediction of:

- The potential of the landscape over time to have accumulated and preserved Aboriginal objects
- The ways Aboriginal people have used the landscape in the past with reference to the presence of resource areas, surfaces for art, other focal points for activities and settlement
- The likely distribution of the material traces of Aboriginal land use based on the above.

3.1 Environmental background

3.1.1 Geology

The study area is within the Murray Darling Basin and is within the catchment area of the Lachlan River, which is situated 60 kilometres (km) to the northeast.

The study area is within the NSW South Western Slopes biogeographic region. This is an extensive area of foothills and isolated ranges comprising the lower inland slopes of the Great Dividing Range extending from north of Cowra through southern NSW into western Victoria. This bioregion is dominated by a sub-humid climate characterised by hot summers and low winter temperatures. Mean annual rainfall in the vicinity of the study area is approximately 470 mm. Highest rainfall months are generally in mid winter then late spring early summer.

The bioregion lies wholly in the eastern part of the Lachlan Fold Belt which consists of a complex series of north to northwesterly trending folded bodies of Cambrian to Early Carboniferous sedimentary and volcanic rocks. Granites are common and mostly located in large scale upfolded bodies of rock. Granite landscapes occur either as central basins surrounded by steep hills formed on contact metamorphic rocks, or as high blocky plateau features with rock outcrops and tors. Hilly landscapes developed on the sedimentary and volcanic rocks are controlled by structural features (bedding and faults) and typically form lines of hills extended along the strike of more resistant rocks such as quartzite. The valleys between ranges are in generally softer rocks such as shale, phyllite or slate. Limited areas of Tertiary basalt with underlying river gravels and sands occur, and as the country becomes lower to the west and north, wide valleys filled with Quaternary alluvium and occasional lakes become the dominant landscape form (King et al.1998).

The study area is approximately four kilometres northwest of the Booberoi Hills. These form a range 14 km in length reaching heights of 310 m above sea level. The geology of the Booberoi Hills is comprised of Silurian-Devonian sedimentary rocks including sandstone, siltstone, mudstone and igneous elements such as basalt. Harder metamorphic rocks such as silcrete are not uncommon inclusions in the sedimentary matrix of the Booberoi Hills (NSW Geology Plus 2018). It is likely the Booberoi Hills were an important regional source of raw stone materials for Aboriginal people occupying the study area landscape and surrounds.

3.1.2 Hydrology

There are no major waterways within 10 kilometres of the study area. Sandy Creek is a partly-perennial stream, which traverse 5 km to the north of the study area. Barmedman Creek (previously Back Creek) is a mainly-perennial river which traverses 12 km east of the study area. Ephemeral drainage lines and tributaries of Barmedman Creek are located within 2 km of the study area. Lake

Cowal is a large and shallow ephemeral lake situated 15 km to the northwest of the study area and an important Aboriginal archaeological and cultural area. Isolated ephemeral drainage lines cross the study area northeast to southwest and are associated with minor changes in topography. These ephemeral drainage lines may have provided a focus for transient Aboriginal occupation in an otherwise dry landscape.

3.1.3 Soils

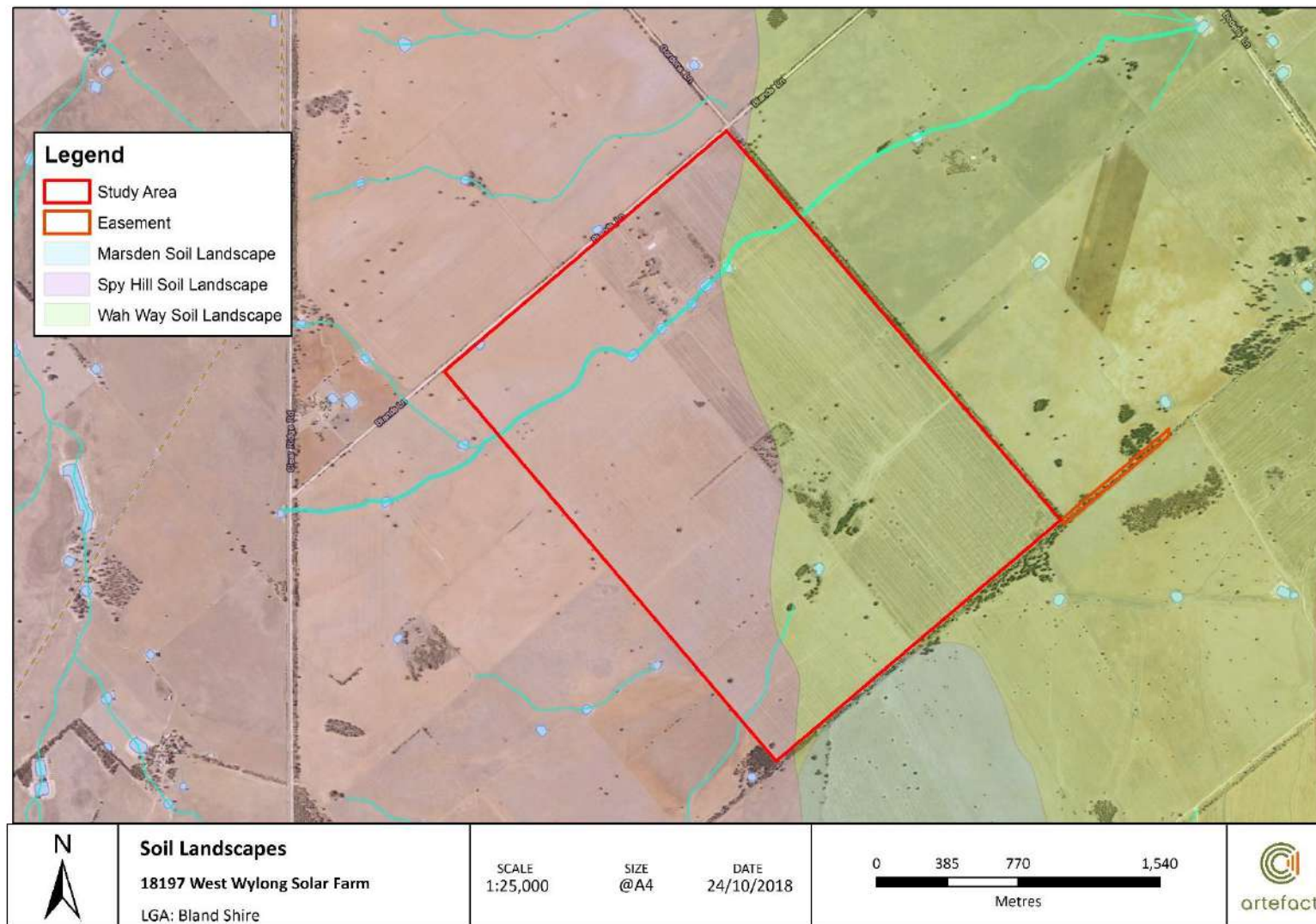
The overall pattern of soils in the study area landscape is one where shallow, stony soils are found on the tops of ridges and hills. Moving downslope, texture contrast soils are the norm with subsoils derived from the underlying weathered rock and the topsoils being a homogenised surface mantle of coarser material derived from all parts of the slope. On valley floors subsoils have drabber colours indicative of poor drainage and they may accumulate soluble salts. Dryland salinity is widespread. Alluvial sands and loams are more common than clays in most parts of the landscape but alluvial clays become more important nearer to the Riverine Plain. Over the Quaternary, soils in these landscapes have accumulated a considerable quantity of windblown silt and clay from western NSW.

Soils in the study area consist of the Spy Hill soil landscape and the Wah Way soil landscape, with the Marsden soil landscape adjacent to the southern boundary of the study area (Figure 3.1) (King et al. 1998). The Spy Hill soil landscape usually occurs on gently undulating plains and rises on the Devonian Wyalong Granite and reworked granite materials. It is moderately deep (500-800 mm), with moderately well-drained, red earths that occur on upper slopes and some mid-slopes and lower slopes. Shallow to moderately deep, well-drained earthy Sands and Siliceous Sands occur on some slopes along some drainage lines. Red podzolic soils are found on mid and lower slopes and are moderately deep and well drained. Yellow and brown solodic soils occur along some drainage lines and while deep, greater than one metre, these soils do not drain well.

The Wah Way soil landscape occurs on the Wah Way Plain and the Plains Country extending westwards to parts of the Barmedman Creek Floodplain. The soils are predominantly very deep (>1.5 m), poorly drained clays with red, grey and brown clays. Very deep (1.5 m), imperfectly drained red brown earths/red clays intergrades occur on some slightly more elevated plains. Localised small areas of gilgai occur. The Marsden soil landscape is characterised by broad alluvial plains in the vicinity of Marsden and west of Caragabal, with conspicuous gilgai microrelief. Deep (1.5 m), very poorly drained grey clays dominate gilgai depressions along with brown and occasional humic gleys. Moderately deep to deep (>1.2 m), imperfectly drained red clays and some grey clays occur on gilgai puffs or crests (King et al. 1998).

Gilgai plains are features that were first observed in Wiradjuri country. The word is derived from 'gilgaay' meaning waterhole. A gilgai describes a hollow in the ground surrounded by a raised rim. Gilgais occur on plains of heavy clay soil, where the terrain is of low relief, and they are characterised by the presence of hollows, rims, and mounds. They are formed by alternating periods of expansion during wet weather and contraction, causing deep cracking, during hot, dry weather (Schaetzl 2007). Gilgai soils are present in the study area and can impact on Aboriginal stone artefacts by moving these vertically through expansion and contraction.

Figure 3.1: Soil landscapes within the study area



3.1.4 Native flora

The study area is modelled within the Mallee and Mallee-Broombush dominated woodland and shrubland. This community typically has a canopy layer co-dominated by the Mallee eucalypts *Eucalyptus behriana* (Bull Mallee) and *E. dumosa* (White Mallee), with either (on flat land) *E. socialis* (Red Mallee), or (on low rises) *E. polybractea* (Blue Mallee) and *E. viridis* (Green Mallee). Additional conspicuous tree species may include *Casuarina cristata* (Belah), *Callitris glaucophylla* (White Cypress Pine), and *C. endlicheri* (Black Cypress Pine). The shrub layer may vary strongly from site to site but typically includes *Acacia* species. Ground cover is variable but includes daisies, small chenopods, rock ferns and a variety of other grass species. Areas of gilgai plains are generally covered by tree or large shrub canopy to an extent of about 30 per cent surface cover, with about ten trees per hectare on average. Many herbs and grasses surround gilgais, several of which are amphibious and able to take advantage of ephemeral inundation.

3.1.5 Native fauna

There has been extensive clearance of native vegetation and a relative lack of study of the NSW South Western Slopes biogeographic region. As a result, accurate reconstructions of native fauna populations are not readily available. A scoping study for the entire region identified 479 vertebrate taxa, which divided into the following categories: Amphibians five per cent, Reptiles 18 per cent, Birds 64 per cent, Bats four per cent, Mammals 46 per cent. Mammalian species were dominated by kangaroos (*Macropod* sp.), wombats (*Vombatus ursinus*) and smaller desert marsupials (NSW National Parks and Wildlife Service 2001).

3.1.6 Conclusions

The landscape surrounding the study area was a resource rich landscape with abundant raw material and food resources. Past Aboriginal populations would have used the entire range of flora and fauna available to them not only for material items such as skin cloaks, wooden tools and weapons and shelter but also food. For example, the nuts of the Cypress, which would have been available in the study area, contained seeds which were used in cooking (Clayton and Barlow 1997). In addition, the resources available formed an important part of their ceremonial and religious way of life. For example, the occurrence prior to clearing of carved trees symbolising burial sites.

Aboriginal people were highly skilled at subsistence in dry environments. They had deep knowledge of the locations of soaks and subsurface water resources and were able to range through very dry country. The study area is in a Mallee bioregion. Extensive modern research and historical ethnographic depictions document a range of Aboriginal techniques for extraction of water from Mallee plants even during very dry conditions (Noble and Kimber 1997). Although the study area is not located near sources of permanent water it contains two ephemeral drainage lines. In dry areas ephemeral waterways may have played a far higher role in past Aboriginal local subsistence than they would where water was more abundant. These waterways would have allowed transient use of the study area during periods of high rainfall that is during winter through to late spring/early summer and would have assisted travel through the landscape of resource rich zones such as Lake Cowal and the Booberoi Hills.

Anthropological research indicates that the usual maximum daily ranging distance of hunter gatherers was approximately 10 km (summarised in Winterhandler 2001: 21). The study area is located at an approximate midpoint between several major water resources. It is 14 km west of Barmedman Creek, 15 km southwest of Lake Cowal and 5 km south of Sandy Creek. The study area is also 4 km west of lithic resources at the Booberoi Hills. This would suggest that the ephemeral drainage lines of the study area may have been used as a staging point or camp during travel between local resources.

3.2 Historical background and land use

The area surrounding West Wyalong was first visited by non-Aboriginals in 1817. John Oxley was the first to pass through what is now the Bland Shire. In June of that year he was in the vicinity of Ungarie, approximately 34 km to the west of the study area. Oxley was unimpressed by the land and stated that the area would remain uninhabited. However, in the late 1800s the land was discovered to be ideal for the cultivation of wheat (Bland Shire Council's State of Environment Report 2010). In 1898, the Lands Department set aside 12,000 acres for homestead selection to the east of Wyalong, in blocks of 400 to 700 acres. In 1902, a further 7,000 acres was set aside for the same purpose. From the early 20th century the area saw a huge influx of settlers, confident of agricultural success. These new settlers took up the newly subdivided land and set about developing their agricultural businesses clearing the land for cropping and pastoral activities. The areas surrounding the study area would have been heavily timbered with dense areas of Mallee. Good Box, Iron Bark and Pine were also available in large quantities for fencing and building purposes (English 2014).

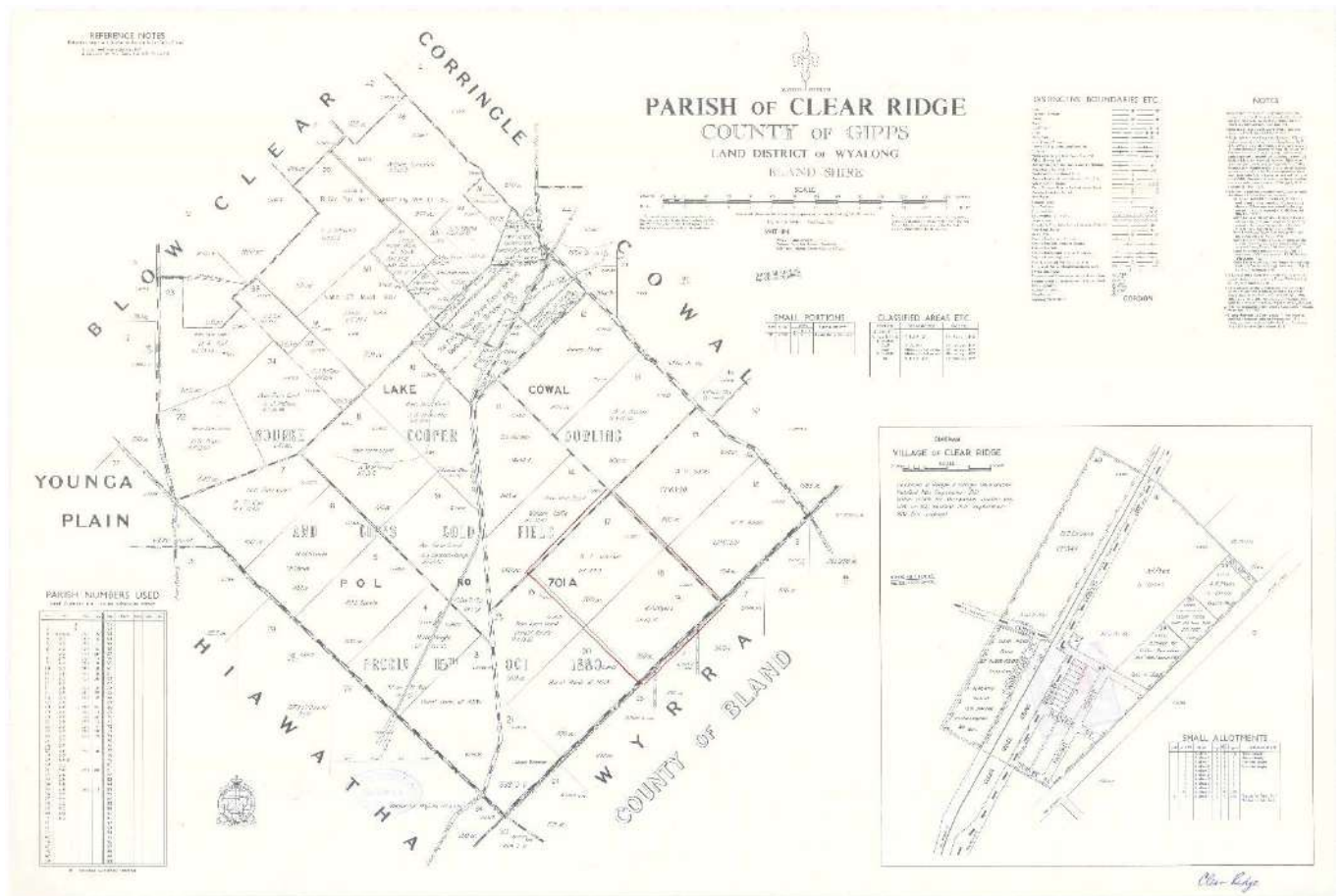
The first official pastoral lease within the study area, was gazetted in 1848 and called Lake Cowal. The run was listed as having frontages to the Billabong Creek, downstream from Billabong (another run), and extending along the Billabong boundary to within 11 km of the future township of Wyalong. Following the *Land Act 1884*, The Lake Cowal run was converted into two pastoral holdings, 701 and 162 (Bland District Historical Society 1993). The study area falls within Lake Cowal 701.

The towns of Wyalong and West Wyalong were established after gold was discovered in 1893 by Joseph Neeld and the Neeld family developed claims on the best of the land. By 1895, after the first load of stone was sent to Barmadman producing a high yield, thousands of people descended into the area (Bland District Historical Society 1993). The gold rush extended through much of the Bland Shire including with the current study area in the boundaries of the Bourke Cooper Dowling and Gipps Gold Field that was proclaimed in 1880 (Figure 3.2). A variety of mining techniques were used locally, ranging from small shaft mines to deep-lead mines with poppet heads. Associated activities may have included establishment of stamping plants and excavation of settling ponds. Soil disturbance resulting from these activities would likely have had a significant impact on any Aboriginal archaeological deposits if present.

In 1913, the Lake Cowal and Barrawang Lands were subdivided for homestead farms (Figure 3.3). Homestead farms were designed to be able to maintain a settler, his family and home under reasonable conditions (English 2014).



Figure 3.3: 1913 parish map, study area in red. Source: HRLV Viewer



4.0 ABORIGINAL CONTEXT

4.1 Aboriginal histories of the locality

Traditional Aboriginal tribal boundaries within Australia have been reconstructed, primarily, based on surviving linguistic evidence and are therefore only approximations. Social interaction, tribal boundaries and linguistic evidence may not always correlate, and it is likely boundaries and interaction levels varied and fluctuated over time. The study area is within the traditional boundaries of the Wiradjuri language group (Tindale 1974). Clusters of neighbouring clans which shared a common dialect and political and economic interests defined themselves from other clusters by a language name (Barwick 1984). The territories of these clans were often small, consisting of several kilometres of river frontage and some back country.

The Wiradjuri language group is described by Tindale (1974) as the largest tribal grouping in Australia. The territory extends from the Blue Mountains in the east, north to Nyngan and south to Albury. The Lachlan and Macquarie Rivers were a rich resource that provided food and transport. The food from the rivers was supplemented with kangaroos, wallabies, bandicoots, emus, turkeys, snakes and lizards, especially in those seasons when people moved from the rivers into the ranges or plains. Bulrush roots, grass seeds, daisy yams, along with roots and tubers also formed part of their subsistence (Tindale 1974). Trees in the area not only provided food and fuel but were also used for the manufacture of tools and implements. For example, spears, shields, and digging sticks. Bark was used to build houses, make canoes, coolamons and other containers.

The first recorded contact between the Wiradjuri people and Europeans occurred at Bathurst on the Macquarie River where Governor Lachlan Macquarie met a group of senior Wiradjuri men wearing possum skin cloaks. The gold rush of the 1850s in the eastern Wiradjuri lands saw the local European population around Orange and Bathurst boom, becoming one of the most densely populated areas in the state. The diseases brought by the Europeans were noncompatible with the Aboriginal people, which would have spread well beyond the new colonist's population centres. This, combined with the pastoral settling of the slopes and plains that had begun some decades earlier, displaced many Wiradjuri placing pressure on the traditional social systems and economies.

4.2 Aboriginal Heritage Information Management System

The location of Aboriginal sites is considered culturally sensitive information. It is advised that this information, including the Aboriginal Heritage Information Management System (AHIMS) data appearing on the heritage map for the proposal be removed from this report if it is to enter the public domain.

An extensive search of the AHIMS database was undertaken by Anna Darby on the 17 September 2018 (AHIMS search ID 370985). An area of approximately 25 square kilometres was included in the search. The AHIMS search provides archaeological context for the area and identifies whether any previously recorded Aboriginal sites are located within or near the study area. The parameters of the search were as follows:

GDA 1994 MGA 55	505029 – 555029 m E
	6233873 – 6283873 m S
Buffer	0 m
Number of sites	115

A total of 115 Aboriginal sites were identified in the extensive AHIMS search area. The frequency of recorded site features is summarised in Table 4.1. A registered Aboriginal site is made up of one or more features and these features should not be confused with registered Aboriginal site. Office of

Environment and Heritage lists 20 standard site features that can be used to describe a site registered with AHIMS. For the 115 sites within the search area, ten combinations of site features were recorded. The majority of recorded site features are artefacts (n=64), with hearths (n=22) the second highest feature. One site was recorded as restricted, communications with OEH determined that the restricted site was not in the study area.

Table 4.1: Frequency of site features from AHIMS data

Site Feature	Frequency	Percentage (%)
Artefact	64	55.7
Hearth	22	19.1
Modified Tree (Carved or Scarred)	15	13.0
Artefact, Hearth	7	6.1
Artefact, Modified Tree (Carved or Scarred)	2	1.7
Artefact, Stone Quarry	1	0.9
Burial, Artefact	1	0.9
Grinding Groove	1	0.9
Grinding Groove, Water Hole	1	0.9
Restricted	1	0.9
Total	115	100

The distribution of recorded sites within the study area are shown in Figure 4.1 and Figure 4.2. No Aboriginal sites were recorded within the study area, a description of the closest recorded Aboriginal site to the study area is below.

TL8 (AHIMS ID 43-4-0036)

This site is the closest recorded Aboriginal site to the study area, approximately 5 km northeast of the study area. This site is recorded in 1997 as an artefact located 50 m from the bank of Sandy Creek. No further detail was available from the site card for AHIMS ID 43-4-0036.

Figure 4.1: Distribution of AHIMS sites within the extensive search area

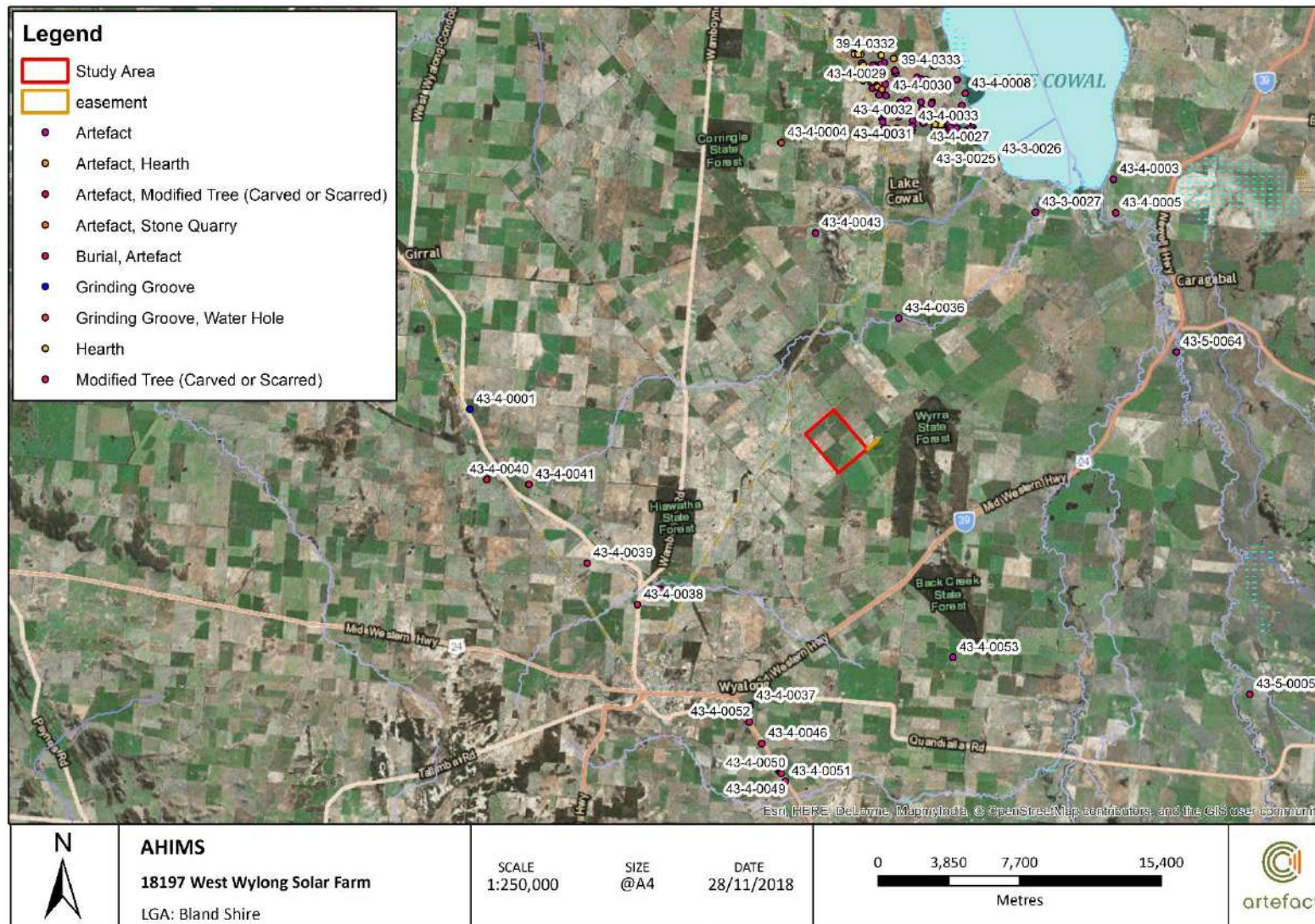
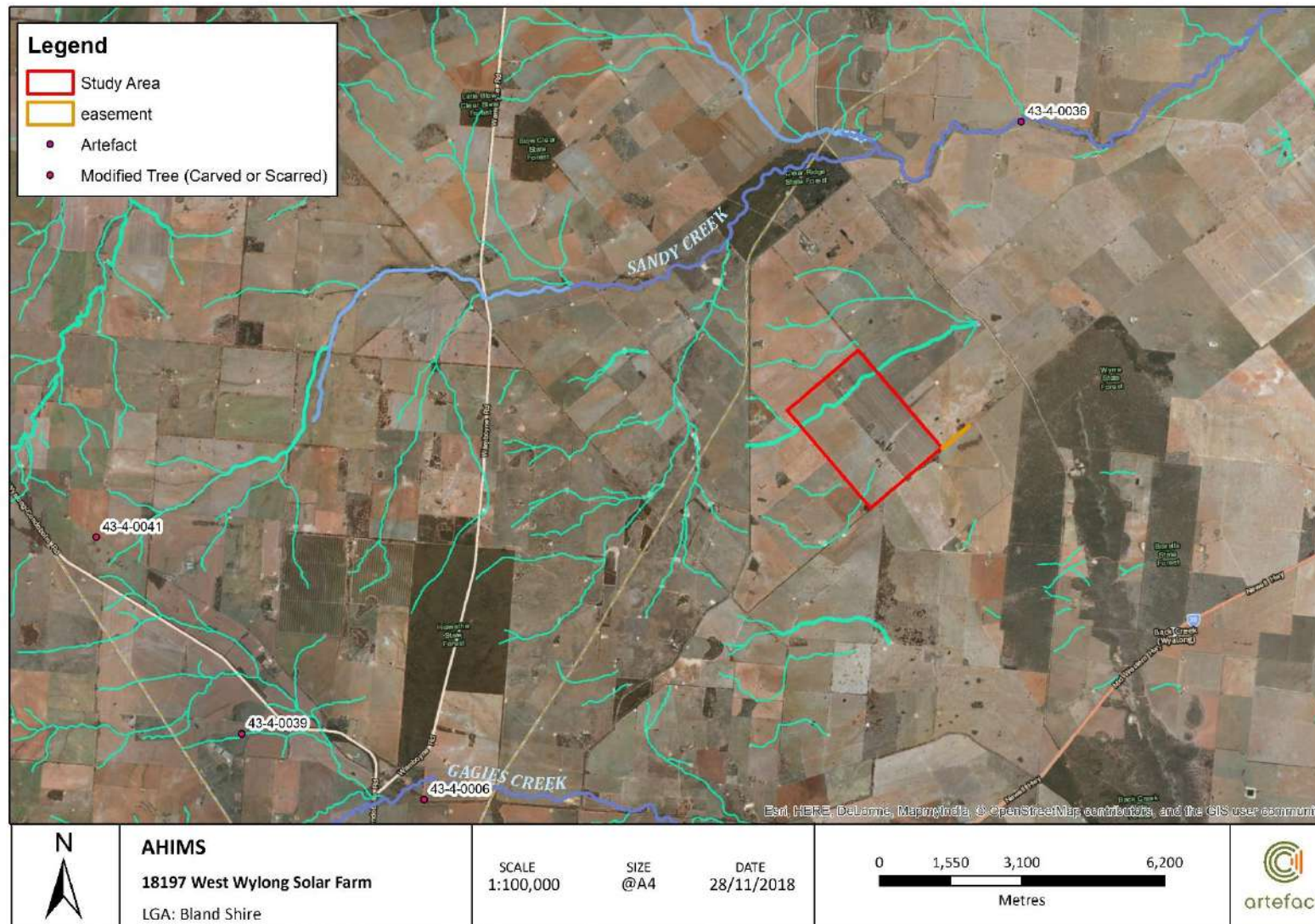


Figure 4.2: AHIMS sites in close proximity to the study area



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4.3 Previous archaeological assessments

Very little archaeological research has been undertaken within the region, except for the discrete environmental context around Lake Cowal, approximately 15 km to the northeast of the study area.

Niche Environment and Heritage (2017) - Cowal Gold Operations – Processing Rate Modification

Niche Environment and Heritage (Niche) was engaged by Evolution Mining (Cowal) Pty Limited for the Cowal Gold Operations to undertake an Aboriginal Cultural Heritage Assessment for the proposed processing rate modification. The Cowal Gold Operations is situated within Mining Lease 1535 at Lake Cowal approximately 17 km northeast of the current study area. The modifications focused on the eastern and southern sides of the mine.

A total of 65 Aboriginal archaeological sites were identified in the study area, and were comprised of stone artefact sites, ovens, heat retainers and a single scarred tree. The majority of sites were artefact sites with low densities of artefacts, however, there was one large site recorded and many of the open sites had multiple features present. Three of the sites were assessed as having high significance, five sites of moderate significance and 57 sites of low significance, but it was recognised that all sites are important to the Aboriginal community. The impact assessment concluded that cumulative impact from the Modification would be relatively low.

Sinclair Knight Merz (2013) - Oakover Pavement Reconstruction Project, Goldfields Way, West Wyalong, New South Wales

Sinclair Knight Merz (2013) was engaged by Roads and Maritime Services to conduct an Aboriginal archaeological survey along a section of the Goldfields Way south of West Wyalong.

This survey was undertaken approximately 14 km south of the current study area. The Goldfields Way traverses a plains landform that is comprised of inactive alluvial plains and colluvial sheet wash plains. As a result of the field survey a total of seven culturally modified scarred trees were recorded including a Bee Tree. This tree was likely scarred as a result of cutting into the heartwood of the tree to place smoking embers to pacify bees in order to remove honey further up the tree, or as an access point from which to remove the honey directly. A stand of Quandong trees was also recorded as being of high cultural value as a valuable food resource used by Aboriginal people in the region.

Colin Pardoe Bio-Anthropology & Archaeology (2013) - Cowal Gold Mine Extension Modification Aboriginal Cultural Heritage Assessment

Colin Pardoe Bio-Anthropology & Archaeology were engaged by Barrick (Cowal) Limited to prepare an Aboriginal Cultural Heritage Assessment for the Cowal Gold Mine Extension Modification.

The entire extension area was surveyed for this assessment. Conditions of exposure and visibility were poor. The survey relocated several previously recorded sites and recorded two new large sites on the back plains containing stone artefacts and ovens. It was also observed that the low-density background scatter of stone artefacts and heat retainers was continuous across the survey area.

Management recommendations for the sites included salvage and application of informative analyses such as radiocarbon dating, biochemical analysis of artefacts and use-wear studies.

Recommendations for the background scatter were consistent with the existing management plan, which includes surface collection and collection after grader scraping of representative artefacts.

Archaeological Consulting Services (1999) - An Aboriginal Heritage Assessment of the Barmedman Bridge Replacement, Main Road 57 between Temora and West Wyalong, Western NSW

In 1999, Archaeological Consulting Services conducted survey on the eastern side of the Barmedman bridge, approximately 3 km south of the township of Barmedman and approximately 37 km south of the current study area.

Background studies revealed that one isolated quartz flaked piece had been located close to the study area during an archaeological assessment conducted over two decades ago. This isolated find is not registered on AHIMS. The report noted that generally Aboriginal site numbers and density of archaeological material within the Barmedman district are quite low. No Aboriginal sites or objects were identified during the survey and the isolated quartz flake was not relocated.

The report concludes that there is a strong indication that Aboriginal cultural heritage may have been present in the study area at low densities prior to European settlement. However, roadworks and other developments have severely disturbed soils in the study area and it is unlikely that any surface or subsurface archaeological deposit remained (Archaeological Consulting Services 1999).

4.4 Predictive model

Based on the background environment and previous archaeological assessments, the following conclusions can be made regarding the potential archaeological sensitivity of the study area:

- Archaeological evidence will most likely comprise low density scatters of stone artefacts
- These will predominantly be located in proximity to a watercourse
- Stone artefacts where present will reflect the availability of local raw materials from the Booberoi Hills including sandstone, siltstone, mudstone and igneous elements such as basalt
- Artefacts are likely to occur in low densities or isolated deposits consistent with the modelled use of the study area as a transient or ranging location
- If Gilgai soils are present in the study area, artefacts may be vertically displaced
- Artefacts may be displaced due to soil deflation resulting from agricultural land use including clearing, ploughing and cropping
- Mature indigenous trees where present in the study area may be culturally modified.
- Based on the lack of permanent water and sources of suitable stone raw materials the study area in conjunction with the moderate levels of disturbance through land use the study area is predicted to be of low to moderate archaeological sensitivity.

5.0 ARCHAEOLOGICAL SURVEY

5.1 Aims

The aims of the archaeological survey were to:

- Cover a representative sample of the study area that will potentially be impacted by the proposed works
- Reinspect any previously registered sites
- Record any new Aboriginal objects or sites observed during the survey
- Identify areas of potential archaeological deposit (PAD) that may be present in areas that have had no or minimal disturbance
- Liaise with the West Wyalong LALC regarding the proposed works and the archaeological potential of the study area
- Collect information to ascertain whether further archaeological investigation is required.

5.2 Timing and personnel

The archaeological survey was conducted over three days on 9, 10 and 11 October 2018. Personnel and timing for the archaeological survey are presented in Table 5.1.

Figure 5.1: Timing and personnel for the archaeological survey

Participant	Organisation	Role	Date of participation
Michael Level	Artefact Heritage	Senior Heritage Consultant/Survey supervisor	9 October to 11 October 2018
Anna Darby	Artefact Heritage	Heritage Consultant	9 October to 11 October 2018
Braydn Davis	West Wyalong Land Council	Field Officer	9 October 2018
Linton Howarth	West Wyalong Land Council	Field Officer	9 October to 11 October 2018
Jesse Hampton	West Wyalong Land Council	Field Officer	10 to 11 October 2018
Lee Hampton	West Wyalong Land Council	Field Officer	11 October 2018

5.3 Constraints

The vast majority of the study area had been sown with a wheat crop which was failing due to drought conditions. This wheat crop comprised the chief constraint for ground surface visibility during the survey.

5.1 Sampling strategy

The study area is large comprising 560 ha and the powerline easement. Full survey coverage of the study area was not practicable therefore a survey sampling strategy was required. A sample survey is acceptable, with justification, under the Code of Practice.

The study area where the solar farm will be located comprises a single landform. Survey units (SUs) were defined arbitrarily for the survey methodology and do not reflect changes in topography.

An initial intensive survey strategy was adopted to robustly assess a representative area. This initial strategy was to walk a series of transects at 15 m apart across each survey unit in parallel lines at a pace that allowed opportunity to identify any features or objects. At the end of each transect the team would reposition along a new transect line at the same spacing and walk on the reverse compass bearing. This strategy was implemented for survey unit one (SU1) and the easement (Figure 5.2). This resulted in an effective total survey of these areas.

The sampling strategy employed for survey units two (SU2) and three (SU3) was less intensive and employed transects with four personnel in pairs spaced 10 m apart (Figure 5.2). Each pair of transects was separated by 100 m.

5.2 Survey methodology

All survey units were traversed on foot. A handheld Global Positioning System (GPS) was used to track the path of the survey team, to record the coordinates of survey transects and the location of finds. The coordinate system projection used for all site recording was GDA94 MGA 56.

All ground exposures were examined for Aboriginal objects (stone artefacts, imported shell, or other traces of Aboriginal occupation). Mature trees were examined for signs of cultural modification.

A photographic record was kept during the survey. Photographs were taken of ground visibility vegetation and disturbance in survey units. Photographs were also taken of any identified Aboriginal cultural material. Scales were used for photographs where appropriate.

5.3 Recording site extents in relation to the study area

Where areas where scatters of stone artefacts were identified towards the margins of each survey unit, efforts were made by the survey team to delineate the identified extent of the scatter by surveying in a radius of up to 50 m from the identified artefacts. It is possible that these scatters may continue beyond that point. However, consensus among the survey team was that the radius surveyed was adequate to provide an accurate representation of each scatter.

Figure 5.2: Survey units



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5.4 Survey results

5.4.1 The easement

The easement was surveyed as the area represented on client supplied mapping (Figure 5.2). It extends northeast from the southeast corner of the main study area and terminates at an overhead powerline (Figure 5.6). It measures approximately 780 m long and 30 m wide (2.34 ha) (Figure 5.3 and Figure 5.4).

The landscape within the easement is heavily disturbed due to vegetation clearance, ploughing and cropping. Soils were predominantly yellow or red with high sand content. Vegetation in the easement contained Belah and Acacia trees with an understory of grasses. Throughout the area trees and fence posts have been uprooted and burnt, and soils have been mechanically moved into windrows (Figure 5.5; Figure 5.6). Visibility in the burnt areas was high (approximately 80 per cent) while the remainder of the easement had low visibility due to dense grass and leaf litter (Figure 5.3; Figure 5.4).

No Aboriginal objects or areas of potential archaeological deposit were identified within the easement.

Figure 5.3: Beginning of the easement, facing east (Photographed by M Lever, 9 October 2018)



Figure 5.4: End of the easement, facing east (Photographed by M Lever, 9 October 2018)



Figure 5.5: View north east of the vegetation in the easement (Photographed by M Lever, 9 October 2018)



Figure 5.6: View east of the disturbance (Photographed by M Lever, 9 October 2018)



5.4.2 Survey unit one

Survey unit one (SU1) comprises the south-eastern portion of the study area (Figure 5.2). The unit measures approximately 84.3 ha.

SU1 is comprised of a plain landscape that is cleared of native vegetation except for several White Cypress Pines (Figure 5.7; Figure 5.8). The northwest corner of SU1 contains a homestead comprised of a ruinous residence within a clump of Belah trees. The extent of the homestead and trees was approximately 230 m by 30 m (Figure 5.10). Except for a small buffer of approximately three metres along the fence lines the remainder of the study area has been ploughed and sown with wheat.

Surface visibility within SU1 was moderate (60 per cent) in the wheat crop and low (40 per cent) under the trees due to leaf litter (Figure 5.9).

Disturbance within the survey unit included ploughing for the wheat crop and earth works associated with the residential building.

Two isolated stone artefacts were identified in SU1 and are described further in section 7.1.

Figure 5.7: View north of SU1 (Photographed by M Lever, 9 October 2018)



Figure 5.8: View north of SU1 (Photographed by M Lever, 9 October 2018)



Figure 5.9: Ground cover in SU1 (Photographed by M Lever, 9 October 2018)



Figure 5.10: View north west of building and trees (Photographed by M Lever, 9 October 2018)



5.4.1 Survey unit two

Survey unit two (SU2) consists of the central and southwestern corner of the study area (Figure 5.2). SU2 measures approximately 321 ha.

The landform was flat and almost totally cleared. The vast majority of the study area contained wheat crop (Figure 5.13), dissected by an unsealed track. A dam and a cluster of Western Grey Box were present in the southeast portion of the survey unit. Two clusters of Mallee trees measuring approximately 200 m by 150 m were observed in the centre of SU2. Other trees in SU2 included isolated Cypress Pines and one small clump of Belah trees in the west (Figure 5.11; Figure 5.12).

Two ephemeral drainage lines were observed, one in the south west section of the survey unit, and another between the track and the dam mentioned above (Figure 5.15). The contours of these drainage lines had been largely reduced through ploughing. They were identifiable as slight declivities with increased soil dampness and preferential crop growth (Figure 5.12). Localised areas of burning were also observed possibly due to tree and fence post removal.

Disturbance within SU2 two included earth works for dam construction and ploughing. Visibility in south and east sections of SU2 was 60 per cent due to the relatively good condition of the wheat crop. In the western section, the wheat crop was in poor condition, and visibility there was high (90 percent) (Figure 5.18; Figure 5.19).

One artefact scatter, and one culturally modified tree were identified in SU2. These are described further in Section 7.1.

Figure 5.11: View west of the south section of SU2 (Photographed by M Lever, 9 October 2018)



Figure 5.12: View west of SU2 showing ephemeral drainage line (Photographed by M Lever, 9 October 2018)



Figure 5.13: View north west of SU2 from the south end (Photographed by M Lever, 9 October 2018)



Figure 5.14: View west of SU2 showing cluster of Grey Box (Photographed by M Lever, 9 October 2018)



Figure 5.15: View east of the north west side of SU2 (Photographed by M Lever, 11 October 2018)



Figure 5.16: View south from the north side of SU2 (Photographed by M Lever, 11 October 2018)



Figure 5.17: View west of the west side of SU2, showing Mallee in the background (Photographed by M Lever, 11 October 2018)



Figure 5.18: Ground cover in the north of SU2 (Photographed by M Lever, 10 October 2018)



Figure 5.19: Ground visibility in the western portion of SU2 (Photographed by M Lever, 11 October 2018)



5.4.1 Survey unit three

Survey unit three (SU3) consists of the northern section of the study area. It measures approximately 156 ha.

The landform is a plain landscape dissected by an unsealed dirt track. It contains an ephemeral drainage line aligned east- west. Soils in the immediate vicinity of the drainage line slope very gently towards it, to a maximum of 1 m below surrounds (Figure 5.20 - Figure 5.23). Four dams are constructed along this drainage line (Figure 5.24). In the eastern section of SU3 the remains of a homestead complex were observed, with the house having been destroyed by fire. Approximately 60 m south of the ruins are two sheds that are currently being used for agricultural purposes. Vegetation surrounding the homestead complex include Western Grey boxes, Mallee and Cypress pines. An unsealed driveway extends from the complex to Blands Lane, at the gate two mature Sugar Gums (*Eucalyptus cladocalyx*) were observed (Figure 5.26). These trees are not endemic to the area. Other vegetation in SU3 included the wheat crop, and isolated groups of Western Grey Box, Mallee and Cypress Pines. In the northeast section in an area measuring approximately 500 m by 500 m is large amount of quartz and shale debris, possibly indicative of previous mining in the area (Figure 5.27).

Visibility in the western section of SU3 was high while the in the eastern section the visibility was moderate due to the condition on the crop. Visibility in the homestead complex was low due to dense grass and leaf litter. Disturbance within the survey unit included earthworks associated with the homestead complex, damming of the drainage line, and ploughing and sowing the wheat crop.

No Aboriginal objects or areas of potential archaeological deposit were identified within SU3.

Figure 5.20: View south of the eastern section of SU3 (Photographed by M Lever, 11 October 2018)



Figure 5.21: View north of the eastern section of SU3 (Photographed by M Lever, 11 October 2018)



Figure 5.22: View south of SU3 (Photographed by M Lever, 11 October 2018)



Figure 5.23: View south east showing of SU3 (Photographed by M Lever, 11 October 2018)



Figure 5.24: Dam constructed in SU3 (Photographed by A Darby, 12 October 2018)



Figure 5.25: View east showing the homestead complex (Photographed by M Lever, 11 October 2018)



Figure 5.26: View north of the sugar gums at entrance (Photographed by A Darby, 12 October 2018)



Figure 5.27: High density of quartz and shale debris and ground cover (Photographed by M Lever, 11 October 2018)



5.4.1 Coverage

A summary of survey coverage, in accordance with the Code of Practice, is provided in Table 5.1 and Table 5.2 below.

Table 5.1: Survey coverage summary – survey units

Survey unit	Survey unit area (m ²)	Landform	Visibility (%)	Exposure (%)	Effective coverage (m ²)	Effective coverage (%)
The easement	22,832	Gilgai plain	80	40	7,306	32
SU1	842,995	Plain	60	60	303,478	36
SU2	3,210,459	Plain, drainage line	80	90	2,311,530	72
SU3	1,536,318	Plain, drainage line	80	80	125,588	72

Table 5.2: Survey coverage summary – landforms

Landform	Landform area (m ²)	Area effectively surveyed (m ²)	Percentage of landform effectively surveyed (%)	Number of artefacts or features
Gilgai plain	22,832	7,306	32	0
Plain	5,461,443	2,293,806	42	4
Drainage line	153,259	95,021	62	0

6.0 RESULTS

No previously registered Aboriginal sites were located within the study area. The Aboriginal archaeological survey identified four Aboriginal sites within the study area. These comprise one artefact scatter, two isolated artefacts and one culturally modified tree. These sites are described below.

6.1.1 West Wyalong Solar Farm IF 01 (WWSF IF 01) (AHIMS ID 43-4-0056)

Site type: Artefact
Centroid: MGA Zone 55 530745 mE 6258631 mN
Site length: 1 m
Site width: 1 m

WWSF IF01 (AHIMS ID 43-4-0056) is an isolated stone artefact located in the southeast of SU1, within the wheat crop and approximately 60 m from the southern fence line. The site contains one complete red chert flake measuring 30 mm in length and 40 mm in width (Figure 6.1 to Figure 6.4).

The surface visibility across the site was high due to the poor condition of the wheat crop. The landform is considered to have been disturbed from the ploughing of the crop and the artefact is unlikely to be in situ.

Figure 6.1: View North showing the location of WWSF IF 01 (Photographed by M Lever, 9 October 2018)



Figure 6.2: View south showing the location of WWSF IF 01 (Photographed by M Lever, 9 October 2018)



Figure 6.3: WWSF IF 01 in situ (Photographed by M Lever, 9 October 2018)



Figure 6.4: Close up of WWSF IF 01 (Photographed by M Lever, 9 October 2018)



6.1.2 West Wyalong Solar Farm IF 02 (WWSF IF02) (AHIMS ID 43-4-0071)

Site type: Artefact
Centroid: MGA Zone 55 530981 mE 6259155 mN
Site length: 1 m
Site width: 1 m

WWSF IF02 (AHIMS ID 43-4-0071) is located on a flat landform in the western portion of SU1, approximately 85 m from the eastern boundary fence line. The site contains one silcrete flake measuring 30 mm in length, 17 mm wide and 7 mm thick (Figure 6.5 to Figure 6.8).

The site was observed in an exposure due to the poor condition of the crop. The landform is considered to have been disturbed from the ploughing of the crop and the artefact is unlikely to be in situ.

Figure 6.5: WWSF IF02 in situ (Photographed by M Lever, 9 October 2018)



Figure 6.6: Close up of WWSF IF02 (Photographed by M Lever, 9 October 2018)



Figure 6.7: View south showing location of WWSF IF02 (Photographed by M Lever, 9 October 2018)



Figure 6.8: View east showing location of WWSF IF02 (Photographed by M Lever, 9 October 2018)



6.1.3 West Wyalong Solar Farm artefact scatter 01 (WWSF AS01) (AHIMS ID 43-4-0057)

Site type: Artefact Scatter
Centroid: MGA Zone 55 530161 mE 6258506 mN
Site length: 1.9 km
Site width: 550 m

WWSF AS01 (AHIMS ID 43-4-0057) is located in the southwestern portion of the study area and encompassed the southern section of SU2 (Figure 6.9 to Figure 6.11). Fourteen Aboriginal artefacts, including a fragment of grinding stone, were recorded (Table 6.1) across the site in various exposures within the wheat crop and one artefact on the outskirts next to the fence line (Figure 6.12 to Figure 6.14).

While only a small fragment of the grinding stone remains, it is of particular interest as its presence indicates that Aboriginal people were carrying out subsistence activities such seed grinding, and potentially camping in the study area (Figure 6.15). A basalt manuport was also observed (Figure 6.16). All stone materials observed are available locally in the Booberoi Hills up to 4 km away from the study area.

Until recently several fences divided the study area into separate paddocks, this would have localised the scatter to the paddock. The artefact scatter is concentrated around an ephemeral drainage line adjacent to an existing Belah tree which has been identified as culturally modified for the procurement of honey (Figure 6.20: Location of artefacts within WWSF AS01). The association between the artefact scatter and the culturally modified tree is unknown.

Table 6.1: Artefacts associated with West Wyalong Solar Farm AS01

Material	Type	Length (mm)	Width (mm) Thickness
Chert	Flake	30	15
Chert	Backed flake scrapper	30	34
Basalt	Medial flake	30	18
Basalt	manuport	80	60

Material	Type	Length (mm)	Width (mm) Thickness
Silcrete	Flake	25	20
Silcrete	Grinding Stone fragment	80	50
Silcrete	Flake with retouch	38	25
Silcrete	Flake	15	15
Chert	Flake	30	30
Silcrete	Flake	20	15
Quartz	Flake	25	25
Silcrete	Right marginal flake	15	10
Chert	Flake	20	30
Silcrete	Flake	12	15

Figure 6.9: View west of WWSF AS01
(Photographed by M Lever, 9 October 2018)



Figure 6.10: View north from middle WWSF AS01
(Photographed by M Lever, 9 October 2018)



Figure 6.11: View south from middle WWSF AS01
(Photographed by M Lever, 9 October 2018)



Figure 6.12: Example of artefact observed in WWSF AS01
(Photographed by M Lever, 9 October 2018)



Figure 6.13: Example of artefact observed in WWSF AS01 (Photographed by M Lever, 10 October 2018)



Figure 6.14: Example of silcrete artefact observed in WWSF AS01 (Photographed by M Lever, 10 October 2018)



Figure 6.15: Grinding stone fragment (Photographed by M Lever, 10 October 2018)



Figure 6.16: Basalt manuport (Photographed by M Lever, 10 October 2018)



6.1.4 West Wyalong Solar Farm Bee Tree (WWSF Bee Tree) (AHIMS ID 43-4-0058)

Site type: Modified tree (carved or scarred)
Centroid: MGA Zone 55 529430 mE 6258172 mN
Site length: 25 m
Site width: 30 m

WWSF Bee Tree (AHIMS ID 43-4-0058) is located in the north-western portion of SU2 in a cluster of Belah trees. The tree is on the eastern side of the cluster and is approximately 25 m high. The scar is on the east facing side of the trunk, oblong in shape with approximately 60 mm of regrowth, the remaining scar is 800 mm long, 100 mm wide and 80 mm deep. The bark of the Belah tree is not widely used for items such as coolamons or housing and is likely the result of cutting into the heartwood of the tree to place smoking embers to pacify bees in order to remove honey further up the tree. The cut marks on the trunk have been made with a steel axe. These could have travelled into the District quite early via trading networks although they may also be the result of more recent Aboriginal historical use.

**Figure 6.17: View west of WWSF Bee Tree
(Photographed by M Lever, 10 October 2018)**



**Figure 6.18: Close up of WWSF Bee Tree
(Photographed by M Lever, 10 October 2018)**



Figure 6.19: Newly recorded Aboriginal sites within the study area

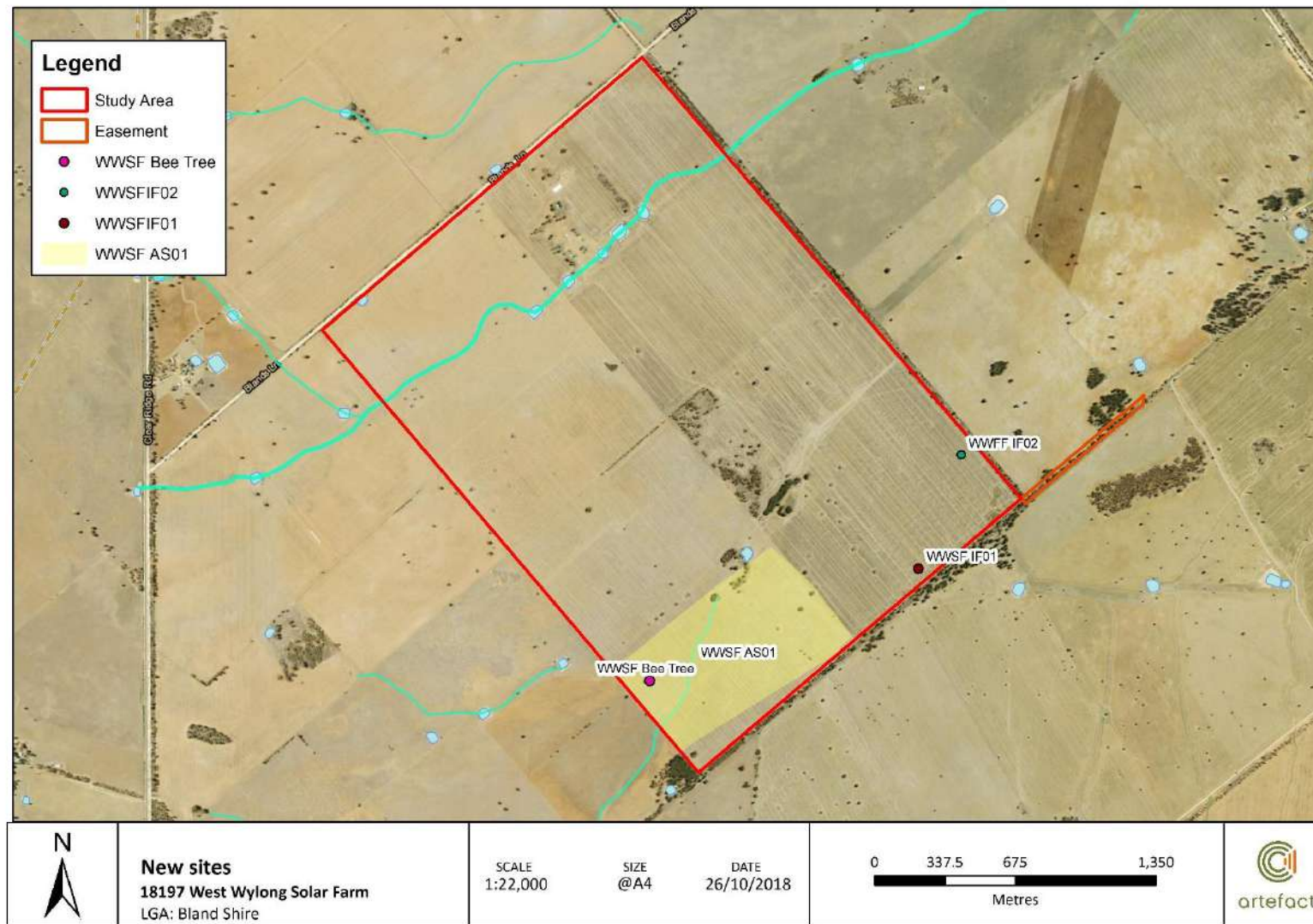
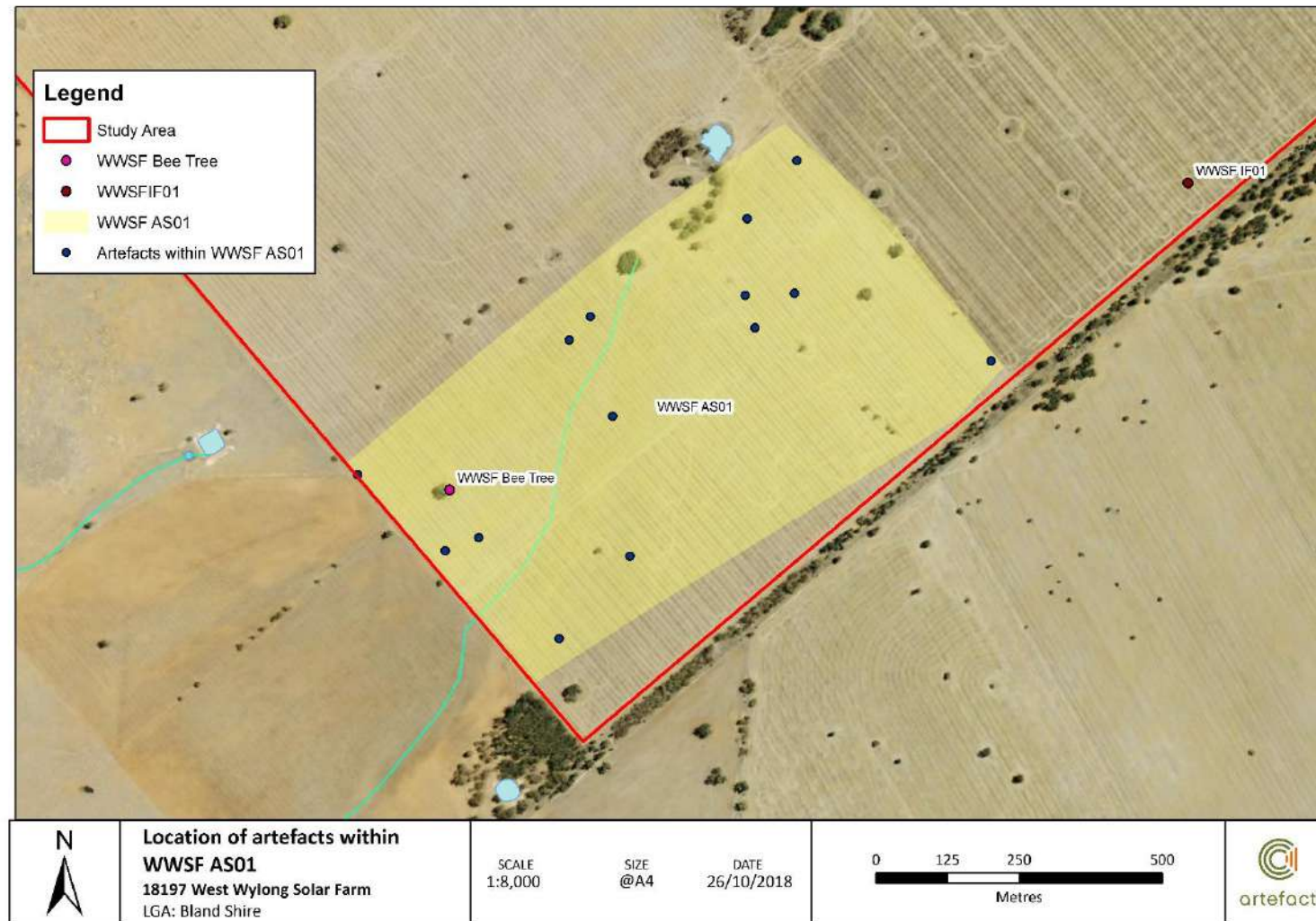


Figure 6.20: Location of artefacts within WWSF AS01 (AHIMS ID 43-4-0057)



Document Path: C:\Users\GIS\Desktop\GIS\GIS_Mapping\18197 West Wyalong Solar Farm\MXD\Study Area_New_sites_raster.mxd

7.0 ANALYSIS AND DISCUSSION

The study area is within the NSW South Western Slopes biogeographic region and within the catchment area of the Lachlan River. The landform within the study area is predominately comprised of a plain with ephemeral drainage lines. These ephemeral drainage lines may have provided a focus for transient Aboriginal occupation in an otherwise dry landscape. The closest waterway, Sandy Creek, is 5 km to the north with the resources rich Lake Cowal 15 km northwest of the study area. Four km to the southeast is the Booberoi Hills that are likely to have been an important regional source of raw stone materials for Aboriginal people occupying the study area landscape and surrounds.

The survey located and identified two isolated artefacts, an artefact scatter, and a culturally modified tree. These Aboriginal site types generally fit with the predication that the study area would be of low to moderate potential. A brief summary of the results with regard to the predictive model is presented below:

- Stone artefacts were the most common site type observed. The artefacts recorded were primarily manufactured from silcrete and chert, both of which are natural stone resources in the area. Two basalt artefacts, including a manuport, and a fragment of grinding stone made from sandstone were also recorded. All these stone materials are available from the Booberoi Hills around four km away. The fragment of grinding stone also suggests that Aboriginal people were camping in the area.
- The artefact scatter had a low density (0.000025 artefacts per square metre), with 0.000003 artefacts per square meter density within the total study area.
- Although the study area is not located near sources of permanent water it contains two ephemeral drainage lines. In dry areas ephemeral waterways may have played a far higher role in past Aboriginal local subsistence than they would where water was more abundant. These waterways would have allowed transient use of the study area during periods of high rainfall, that is during winter through to late spring/early summer and would have assisted travel through the landscape between resource rich zones such as Lake Cowal and the Booberoi Hills.
- Culturally modified trees were predicted to be present on mature trees in areas of preserved native vegetation. The study area has been cleared within recent years and historically and as a result only a small portion of the study area contained mature trees. One culturally modified tree was identified during the survey. The scar was made as a result of resource acquisition. One previously recorded bee tree has been identified in the region (SKM 2013). Both trees are thought to have been scarred in the process of acquiring honey from within the hollow trunk. While Bee Tree 1 (AHIMS ID 34-4-0058) was a Mallee tree this is a Belah tree. Scarring as a result of acquiring food sources has not been fully documented in the region and requires further research.
- The study area is predicted to be an approximate midpoint for hunter gather campsites as it is between several major water resources, as well as within close proximity of the lithic resources at the Booberoi Hills. This would suggest that the ephemeral drainage lines of the

study area may have been used as a staging point or camp during travel between local resources.

- Areas of disturbance were most extensive within the extent of the crop and the area around the homestead complex. Historical land use of the study area included mining and livestock grazing, the land is currently been used for crops. Six dams were observed within the study area, the construction and maintenance of these would also have caused extensive disturbance.
- Ploughing to sow crops causes vertical displacement and to some extent horizontal displacement of soils and as a result the archaeological contexts would also be disturbed.

8.0 SIGNIFICANCE ASSESSMENT

8.1 Significance assessment criteria

An assessment of the cultural heritage significance of an item or place is required in order to form the basis of its management. The Guide (OEH 2011: 10) provides guidelines, in accordance with the Burra Charter (Australia ICOMOS 2013) and the NSW Heritage Branch (Heritage Office 2001) for significance assessment with assessments being required to consider the following criteria:

- Social values – does the area have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons
- Historic values – is the area important to the cultural or natural history of the local area and/or region and/or state
- Scientific values - does the area have the potential to yield information that will contribute to an understanding of the cultural and natural history of the local area and/or region and/or state
- Aesthetic values – is the area important in demonstrating aesthetic characteristics in the local and/or region and/or state.

Scientific values should be considered in light of the following criteria:

- Research potential - does the evidence suggest any potential to contribute to an understanding of the area and/or region and/or state's natural and cultural history?
- Representativeness - how much variability (outside and/or inside the subject area) exists, what is already conserved, how much connectivity is there?
- Rarity - is the subject area important in demonstrating a distinctive way of life, custom, process, land-use, function or design no longer practised? Is it in danger of being lost or of exceptional interest?
- Education potential - does the subject area contain teaching sites or sites that might have teaching potential?

It is important to note that heritage significance is a dynamic value.

8.2 Archaeological significance assessment

A summary of archaeological significance for Aboriginal sites in the study area is provided in Table 8.1.

Table 8.1: Summary of archaeological significance

Site name/ AHIMS ID	Research potential	Representative value	Rarity	Educational potential	Overall archaeological significance
WWSF IF01 (AHIMS ID 43-4-0056)	Low	Low	Low	Low	Low

Site name/ AHIMS ID	Research potential	Representative value	Rarity	Educational potential	Overall archaeological significance
WWSF IF02 (AHIMS ID 43-4-0071)	Low	Low	Low	Low	Low
WWSF AS01 (AHIMS ID 43-4-0057)	Moderate	Moderate	Moderate-High	Moderate	Moderate
WWSF Bee Tree (AHIMS ID 43-4-0058)	High	High	High	High	High

8.2.1 West Wyalong Solar Farm IF01 (AHIMS ID 43-4-0056)

West Wyalong Solar Farm IF01 consists of a single chert flake on a disturbed context due to the wheat crop. Surface visibility in the area was high. Due to the level of disturbance and the singularity of artefact the site was assessed as demonstrating low archaeological significance.

8.2.1 West Wyalong Solar Farm IF02 (AHIMS ID 43-4-0071)

West Wyalong Solar Farm IF02 consists of a single silcrete flake observed within the wheat crop in the eastern portion of SU1. The site was assessed as having little to no intact archaeological deposit and low archaeological significance due to the level of disturbance. Silcrete is abundant in the surrounding areas and therefore the material within the site is not considered rare and has limited research potential.

8.2.1 West Wyalong Solar Farm AS01 (AHIMS ID 43-4-0057)

West Wyalong Solar Farm AS01 consists of 14 artefacts concentrated around the south western ephemeral drainage line. The site was assessed as having moderate research potential and representative value due to the high number of artefacts when the predictive modelling indicated low potential. The presence of the basalt manuport indicates the movement of materials, while the grinding stone fragment indicates the Aboriginal people were camping in the area. As a result, the site was assessed as having moderate education potential with moderate to high rarity.

8.2.2 West Wyalong Solar Farm Bee Tree (AHIMS ID 43-4-0058)

West Wyalong solar farm bee tree is located in the south east of the study area within the boundaries of the artefact scatter. The culturally modified Belah tree is the result of removing the bark and cutting into the heartwood to place smoking embers to smoke the bees, enabling the removal of the honey further up the tree. The association of the bee tree and the artefact scatter is unknown. Culturally modified trees are also a rarity within the modern landscape due to the clearing activities and the life span of trees. Due to the above reasons the site is assessed as high potential and significance across the four categories.

8.3 Cultural significance

Linton Howarth (West Wyalong LALC) did not make any comments with regard to cultural sensitivity of the study area but noted that the cultural materials, in the form of stone artefacts and the WWSF Bee Tree (AHIMS ID pending), were observed in an area that was predicted to have few if any

Aboriginal sites. Mr Howarth also noted that the area could have been used as a travel route between the Booberoi Hills east of the study area to the Manna Mountain Range northwest of the study area in the direction of Condobolin, as well as Lake Cowal to the north.

Cultural values of the study area will be further explored by the ACHAR (Artefact Heritage 2018a)

9.0 IMPACT ASSESSMENT

The impact assessment is based on the likely disturbance caused in conjunction with the current proposed design. This includes the construction of the solar panels (depth of impact of the base unit), construction and excavation work associated with the substation, internal access roads, as well as potential ancillary sites (such as construction compounds, bridge construction sites, and stockpile sites)

A summary of identified impacts is outlined in Table 9.1 below.

Table 9.1: Summary of impacts associated with the solar farm works

Name	Type of harm	Degree of harm	Consequence of harm
WWSF IF01 (AHIMS ID 43-4-0056)	Direct	Total	Total loss of value
WWSF IF02 (AHIMS ID 43-4-0071)	Direct	Total	Total loss of value
WWSF AS01 (AHIMS ID 43-4-0057)	Direct	Partial	Partial loss of value
WWSF Bee Tree (AHIMS ID 43-4-0058)	Indirect	Minimal	Minimal loss of value

Figure 9.1: Location of Aboriginal sites in relation to the proposed solar farm layout (REV 15)

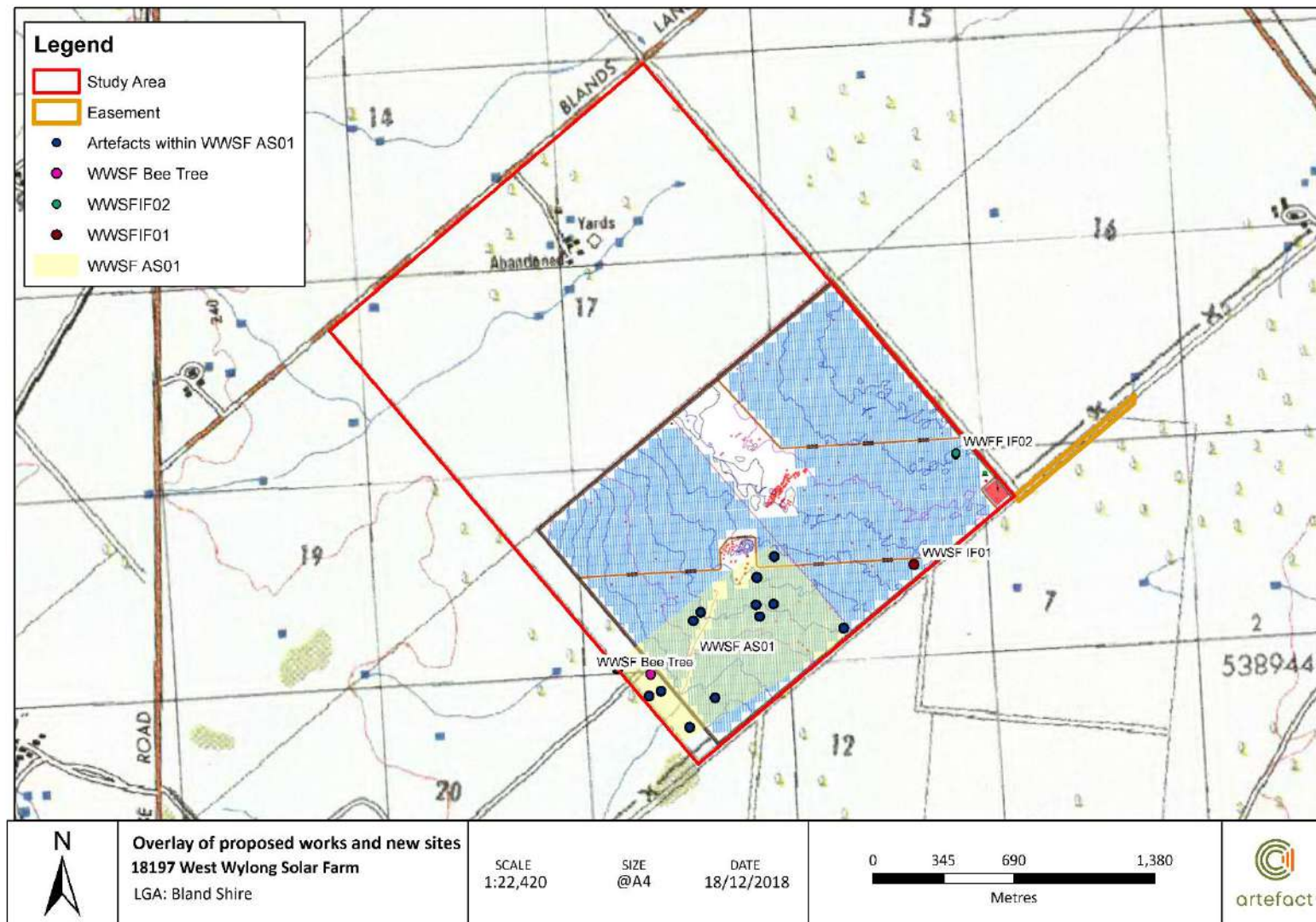
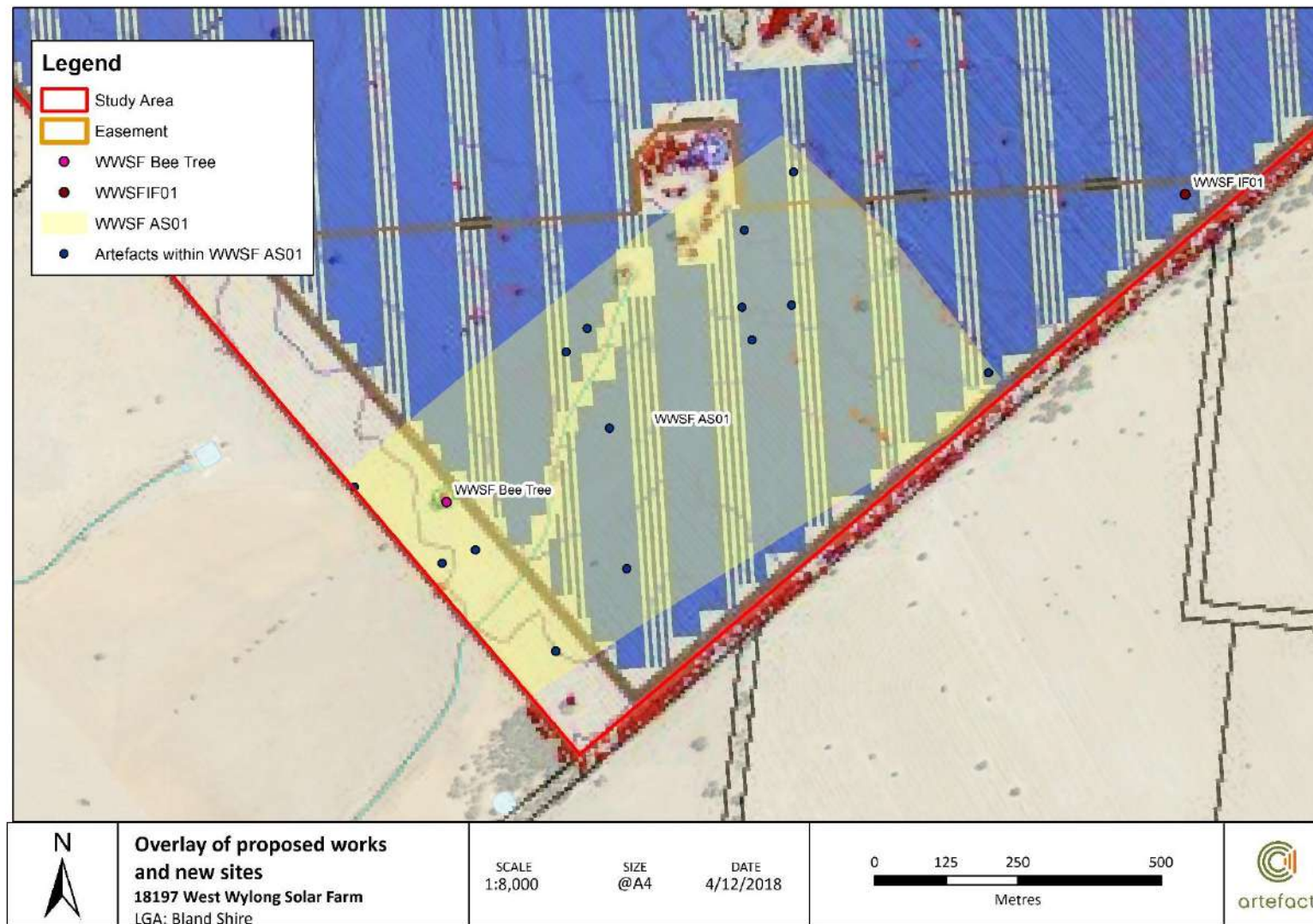


Figure 9.2: Overlay of proposed impacts associated with WWSF AS01 (AHIMS ID 43-4-0057) and WWSF Bee Tree (AHIMS ID 43-4-0058)



10.0 MANAGEMENT AND MITIGATION MEASURES

10.1 Avoidance

The overall guiding principle for cultural heritage management is that where possible Aboriginal sites should be conserved. Avoidance can be achieved through such measures as:

- Design changes to reduce or avoid impacts on Aboriginal sites
- Buffering and exclusion zones
- Construction Environmental Management Plans which include specific Aboriginal heritage management measures to be implemented
- Cultural heritage awareness training.

From the current design layout for the solar farm, Table 9.1 indicates that WWSF IF01 (AHIMS ID 43-4-0056), and WWSF IF02 (AHIMS ID 43-4-0071), will be totally impacted while WWSF AS01 (AHIMS ID 43-4-0071) will be partially impacted and WWSF Bee Tree (AHIMS ID 43-4-0058) is adjacent to the proposed works and will not be directly impacted by the current design.

Where sites can be avoided permanent buffering (for the life of the solar farm) and identification of NO GO zones is required.

10.1.1 WWSF Bee Tree (AHIMS ID 43-4-0058)

WWSF Bee Tree (AHIMS ID 43-4-0058) was identified as containing high archaeological significance. The importance of scarred trees lies in their diversity and education information derived from them. Mitigation measures for WWSF Bee Tree (AHIMS ID 43-4-0058) include creating a fenced buffer for the tree around the dripline, to be done in consultation with an ecologist or arborist.

10.1.2 WWSF AS01 (AHIMS ID 43-4-0057)

It may be possible to avoid impacts to part of WWSF AS01 (AHIMS ID 43-4-0057) where the artefacts occur close to the drainage line (Figure 9.2). If this is possible permanent buffering will be required.

Prior to the commencement of any personnel (including site staff and contractors) working on site the following must be undertaken by the Proponent (Lightsource) (the Proponent will be responsible for all associated costs).

10.2 Salvage

If conservation is not practicable, measures must be taken to mitigate against impacts to Aboriginal sites through salvage.

- Surface collection of stone artefacts
- Analysis and reporting

Table 10.1 summarises the degree of harm and mitigation measures proposed for each of the Aboriginal sites. As stated above two Aboriginal isolated artefacts would be fully impacted while WWSF AS01 (AHIMS ID 43-4-0057) will be partially impacted. Due to the low density nature of all three stone artefact scatters it will not be feasible to totally avoid impact to all stone artefacts.

Surface collection is recommended for all identified stone artefacts that will be impacted by the works. The artefacts are all of low-moderate archaeological significance but are representative of the types of artefacts found in the study area and can provide some research potential. All collected surface artefacts would be analysed, photographed and returned to the study area for reburial at an on site conservation area to be determined by the proponent in consultation the Aboriginal stakeholders for the project. Reburial of artefacts is to be conducted in accordance with Requirement 26 of the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW 2010:35-36).

10.3 Cultural heritage awareness training

Aboriginal cultural heritage awareness training should be provided to key construction personnel. The training should cover the following topics:

- Aboriginal and archaeological significance of the study area
- Identification of NO GO zones and where to find this information on construction plans
- The type and nature of Aboriginal cultural material that may potentially be found within the activity area
- The process for unexpected finds
- Legislation for the protection of Aboriginal cultural heritage and implications

10.4 Unexpected finds

An unexpected finds policy must be implemented in the event of Aboriginal archaeological deposits being identified during ground disturbing works.

An unexpected finds policy would involve the following actions:

- Stop work within the affected area, protect the potential archaeological find, and inform environment staff or supervisor.
- Contact a suitable qualified archaeologist to assess the potential archaeological find.
- If Aboriginal archaeological material is identified, works in the affected area must cease, and the Office of Environment and Heritage (OEH) must be informed. Further archaeological mitigation may be required prior to works recommencing.

10.5 Aboriginal ancestral remains

In all cases, the special importance of Aboriginal ancestral remains must be acknowledged and respected and the wishes of the Aboriginal community must be respected when making decisions regarding ancestral remains.

To avoid doubt, the precautionary principle must be applied to all physical remains suspected to be Aboriginal ancestral remains.

If any human remains are disturbed in, on or under the land, you must:

- not further disturb or move these remains
- immediately cease all work at the particular location

- notify NSW Police
- notify OEH Environment Line on 131 555 as soon as practicable and provide available details of the remains and their location
- not recommence any work at the particular location unless authorised in writing by OEH.

An Aboriginal community representative must be present where it is reasonably suspected burials or human remains may be encountered. If human remains are unexpectedly encountered and they are thought to be Aboriginal, the Aboriginal community must be notified immediately. Recording of Aboriginal ancestral remains must be undertaken by, or be conducted under the direct supervision of, a specialist physical anthropologist or other suitably qualified person.

Archaeological reporting of Aboriginal ancestral remains must be undertaken by, or reviewed by, a specialist physical anthropologist or other suitably qualified person, with the intent of using respectful and appropriate language and treating the ancestral remains as the remains of Aboriginal people rather than as scientific specimens.

10.6 Summary

Table 10.1 provides a summary of the recommended mitigation measures.

Table 10.1: Summary of recommended mitigation measures

Site	Degree of harm	Mitigation measure
WWSF IF01 (AHIMS ID 43-4-0056)	Total	<ul style="list-style-type: none"> • Surface collection of stone artefacts prior to construction • Cultural heritage awareness training to highlight Aboriginal significance of area and process for unexpected finds
WWSF IF02 (AHIMS ID 43-4-0071)		<ul style="list-style-type: none"> • Detailed analysis and recording of all collected stone artefacts and collation of data in a salvage report • Reburial of artefacts at an on site conservation area to be determined by the proponent in consultation with Aboriginal stakeholders

Site	Degree of harm	Mitigation measure
WWSF AS01 (AHIMS ID 43-4-0057)	Partial	<ul style="list-style-type: none"> • Surface collection of all stone artefacts potentially impacted prior to construction • Permanent buffering of NO GO zones where stone artefacts can be conserved • NO GO zones to be identified on all constructions plans and plans to be kept on site at all times for reference • Cultural heritage awareness training to highlight Aboriginal significance of area, identification of NO GO zones and process for unexpected finds • Detailed analysis and recording of all collected stone artefacts and collation of data in a salvage report • Reburial of artefacts at an on site conservation area to be determined by the proponent in consultation with Aboriginal stakeholders
WWSF Bee Tree (AHIMS ID 43-4-0058)	Minimal	<ul style="list-style-type: none"> • Permanent buffering (for the lifetime of the solar farm) of a NO GO zone to be constructed around the dripline of the tree (minimum) in consultation with an ecologist or arborist. • Reassessment of the protection zone surrounding the tree at the conclusion of the operation of the solar farm. • Tree health to be maintained during construction and operation of the solar farm • Cultural heritage awareness training to highlight Aboriginal significance of area, identification of NO GO zones and process for unexpected finds • Detailed analysis and recording of the tree in a salvage report

11.0 RECOMMENDATIONS

The following recommendations regarding Aboriginal heritage are based on consideration of:

- Statutory requirements under the National Parks and Wildlife Act 1974
- The requirements of the Code of Practice for archaeological investigation of Aboriginal objects in New South Wales (DECCW 2010)
- SEARS (SSD_18_9504)
- The results of the background research, site inspection and sensitivity assessment
- The likely impacts of the proposed development.

It was found that

- No previously recorded Aboriginal sites are located within the study area
- Four newly identified sites were located within the study area
- No areas of potential archaeological deposit were identified within the study area
- The study area is of moderate Aboriginal archaeological sensitivity

The following recommendations have yet to be ratified through consultation with the registered Aboriginal parties for the study area. The Aboriginal cultural heritage consultation requirements for proponents 2010 (Consultation Requirements) (DECCW 2010b) have commenced, and an Aboriginal Cultural Heritage Assessment Report (ACHAR) is in preparation (Artefact Heritage in prep).

- An ACHAR must be prepared in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (OEH 2011). The ACHAR would outline further mitigation measures which would be required prior to construction and identify registered Aboriginal parties for the project through the Consultation Requirements.
- Where avoidance is possible permanently fenced (for the lifetime of the solar farm) NO GO zones must be implemented prior to construction and the sites identified on all construction plans.
- A permanently fenced buffer (for the lifetime of the solar farm) should be constructed around WWSF Bee Tree 01 (AHIMS ID 43-4-0058) at the dripline in consultation with an ecologist or arborist. Tree health is to be maintained during construction and operation of the solar farm.
- Where impacts are to occur to WWSF IF01 (AHIMS ID 43-4-0056), WWSF IF02 (AHIMS ID 43-4-0071), and WWSF AS01 (AHIMS ID 43-4-0057) all surface artefacts associated with these sites must be collected. Surface collection must be undertaken by a qualified archaeologist in conjunction with representatives from the registered Aboriginal parties identified for the project. Detailed analysis and recording of all collected stone artefacts and collation of data in a salvage report.
- Surface collection or salvage of surface artefacts may only occur following development consent for the West Wyalong Solar Farm

- An Aboriginal Site Impact Recording Form (ASIRF) must be completed following any impacts to identified sites in the study area as a result of archaeological salvage or project construction.
- At the end of the operational life of the solar farm a reassessment of the NO GO zones should be conducted for future protection of the sites.
- Aboriginal cultural heritage awareness training should be provided to key construction personnel.
- Unexpected finds remain protected under the NPW Act. If unforeseen Aboriginal objects are uncovered during construction, work must cease, and an archaeologist, OEH and West Wyalong LALC must be informed.
- If changes are made to the proposed works which could impact locations outside of the current study area, further archaeological investigation may be required.
- If suspected human remains are located during any stage of the proposed works, work must stop immediately, and the NSW police must be notified. The OEH should be notified if the remains are found to be Aboriginal ancestral remains.

12.0 REFERENCES

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APPENDIX 5 – AHIMS SEARCH DATA

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 18197 West Wylong

Client Service ID : 370985

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
43-4-0034	L-C-2	AGD	55	533900	6276590	Open site	Valid	Artefact : 1, Stone Quarry : 1		
	Contact									
43-4-0035	L-C-3	AGD	55	534655	6276360	Open site	Valid	Artefact : 1, Modified Tree (Carved or Scarred) : 1		102172
	Contact									
43-5-0064	Marsden 1	GDA	55	548300	6263190	Open site	Valid	Artefact : -		98270
	Contact									
43-3-0021	Cowal site LC1	AGD	55	537164	6278408	Open site	Destroyed	Artefact : -	Open Camp Site	102172,10217 3
	Contact									
43-3-0022	Cowal site LC2	AGD	55	537312	6279255	Open site	Destroyed	Artefact : -	Open Camp Site	102172,10217 3
	Contact									
43-3-0023	Cowal site LC3	AGD	55	537830	6276648	Open site	Destroyed	Artefact : -	Open Camp Site	102172,10217 3
	Contact									
43-3-0024	Cowal site LC4	AGD	55	537887	6276638	Open site	Destroyed	Artefact : -	Open Camp Site	102172,10217 3
	Contact									
43-3-0025	LC5;	AGD	55	538000	6275000	Open site	Valid	Artefact : -	Open Camp Site	
	Contact									
43-3-0026	LC6;	AGD	55	539000	6274000	Open site	Valid	Artefact : -	Open Camp Site	
	Contact									
43-3-0027	SC1;	AGD	55	541000	6271000	Open site	Valid	Artefact : -	Open Camp Site	
	Contact									
43-4-0001	Calleen;	AGD	55	509780	6262141	Open site	Valid	Grinding Groove : -	Axe Grinding Groove	
	Contact									
43-4-0003	Lake Cowal;	AGD	55	545321	6272539	Open site	Valid	Artefact : -	Open Camp Site	
	Contact									
43-4-0004	Billy's Lookout;Lake View;	AGD	55	527471	6275565	Open site	Valid	Grinding Groove : -, Water Hole : -	Axe Grinding Groove,Water Hole/Well	
	Contact									
43-4-0005	Lake Cowal;	AGD	55	545338	6270711	Open site	Valid	Modified Tree (Carved or Scarred) : -	Carved Tree	65

Report generated by AHIMS Web Service on 17/09/2018 for Anna Darby for the following area at Datum :GDA, Zone : 55, Eastings : 505029 - 555029, Northings : 6233873 - 6283873 with a Buffer of 0 meters. Additional Info : Survey. Number of Aboriginal sites and Aboriginal objects found is 115

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 18197 West Wylong

Client Service ID : 370985

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	Unknown Author					<u>Permits</u>		
43-4-0006	TU 3;	AGD	55	519500	6251800	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1273
	<u>Contact</u>	<u>Recorders</u>	Rex Silcox					<u>Permits</u>		
43-4-0007	Cowal site P1	AGD	55	537359	6277000	Open site	Destroyed	Artefact : -	Open Camp Site	3148,102172,1 02173
	<u>Contact</u>	<u>Recorders</u>	Doctor.Colin Pardoe,R Williams,Doctor.Scott Cane					<u>Permits</u>	1361,1467,1468	
43-4-0008	Cowal Scarred Tree P2	AGD	55	537575	6277643	Open site	Destroyed	Modified Tree (Carved or Scarred) : -	Scarred Tree	3148,102172
	<u>Contact</u>	<u>Recorders</u>	Doctor.Colin Pardoe,R Williams,Doctor.Scott Cane					<u>Permits</u>	3323	
43-5-0005	Wyalong;Bland Creek;	AGD	55	551078	6244264	Open site	Valid	Modified Tree (Carved or Scarred) : -	Carved Tree	65
	<u>Contact</u>	<u>Recorders</u>	ASRSYS					<u>Permits</u>		
43-4-0036	TL8	AGD	55	533270	6265700	Open site	Valid	Artefact : 10		
	<u>Contact</u> Mr.Roly Williams	<u>Recorders</u>	Annie Nicholson					<u>Permits</u>	1917	
43-5-0079	Restriction applied. Please contact ahims@environment.nsw.gov.au.					Open site	Valid			
	<u>Contact</u>	<u>Recorders</u>	Mr.Rainer Rehwinkel					<u>Permits</u>		
43-4-0046	Birribee Scarred Tree 1	GDA	55	524628	6243334	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	<u>Contact</u>	<u>Recorders</u>	Mr.Joseph Brooke					<u>Permits</u>		
43-4-0047	Birribee Scarred Tree 2	GDA	55	525286	6242209	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	<u>Contact</u>	<u>Recorders</u>	Mr.Joseph Brooke					<u>Permits</u>		
43-4-0048	Birribee Scarred Tree 3	GDA	55	525400	6241927	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	<u>Contact</u>	<u>Recorders</u>	Mr.Joseph Brooke					<u>Permits</u>		
43-4-0049	Birribee Scarred Tree 4	GDA	55	525530	6241734	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	<u>Contact</u>	<u>Recorders</u>	Mr.Joseph Brooke					<u>Permits</u>		
43-4-0050	Birribee Scarred Tree 5	GDA	55	525583	6241659	Open site	Valid	Modified Tree (Carved or Scarred) : 1		

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Extensive search - Site list report

Your Ref/PO Number : 18197 West Wylong

Client Service ID : 370985

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	Mr.Joseph Brooke					<u>Permits</u>		
43-4-0051	Birribee Scarred Tree 6	GDA	55	525779	6241211	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	<u>Contact</u>	<u>Recorders</u>	Mr.Joseph Brooke					<u>Permits</u>		
43-4-0052	Bee Tree 1	GDA	55	524016	6244538	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	<u>Contact</u>	<u>Recorders</u>	Mr.Joseph Brooke					<u>Permits</u>		
43-4-0044	Wamboyne Back Plain Site 1	GDA	55	535144	6278861	Open site	Destroyed	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>	Doctor.Colin Pardoe,Doctor.Colin Pardoe					<u>Permits</u>		
43-4-0045	Wamboyne Back Plain Site 2	GDA	55	536061	6279420	Open site	Valid	Artefact : 1		102172
	<u>Contact</u>	<u>Recorders</u>	Doctor.Colin Pardoe					<u>Permits</u>		
43-4-0043	Lake Cowal Road Open Site with PAD	GDA	55	529140	6270755	Open site	Valid	Artefact : -		102740
	<u>Contact</u>	<u>Recorders</u>	OzArk Environmental and Heritage Management					<u>Permits</u>		
39-4-0271	Lake Cowal 2017-055	GDA	55	533853	6276163	Open site	Valid	Artefact : -, Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0272	Lake Cowal 2017-056	GDA	55	534670	6275987	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0273	Lake Cowal 2017-057	GDA	55	535310	6276670	Open site	Valid	Artefact : -, Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0274	Lake Cowal 2017-058	GDA	55	535427	6276766	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0275	Lake Cowal 2017-059	GDA	55	535879	6277455	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0276	Lake Cowal 2017-060	GDA	55	536522	6276076	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0277	Lake Cowal 2017-061	GDA	55	535267	6277489	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0278	Lake Cowal 2017-062	GDA	55	533108	6276725	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0279	Lake Cowal 2017-063	GDA	55	533136	6276546	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0280	Lake Cowal 2017-066	GDA	55	532214	6278851	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0281	Lake Cowal 2017-054	GDA	55	533399	6276157	Open site	Valid	Artefact : -		

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Extensive search - Site list report

Your Ref/PO Number : 18197 West Wylong

Client Service ID : 370985

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0282	Lake Cowal 2017-053	GDA	55	533184	6276202	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0283	Lake Cowal 2017-052	GDA	55	533076	6276984	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0284	Lake Cowal 2017-048	GDA	55	535903	6276066	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0285	Lake Cowal 2017-050	GDA	55	533013	6278015	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
43-4-0054	Lake Cowal 2017-067	GDA	55	533062	6277100	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Mr.Jamie Reeves					<u>Permits</u>		
43-4-0055	Lake Cowal 2017-068	GDA	55	533250	6280160	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Mr.Jamie Reeves					<u>Permits</u>		
39-4-0286	Lake Cowal 2017-049	GDA	55	536046	6275732	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0287	Lake Cowal 2017-051	GDA	55	533035	6277235	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0288	Lake Cowal 2017-047	GDA	55	535960	6276260	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0289	Lake Cowal 2017-046	GDA	55	536466	6276174	Open site	Valid	Artefact : -, Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0290	Lake Cowal 2017-045	GDA	55	536300	6276201	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0291	Lake Cowal 2017-044	GDA	55	536424	6275897	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0292	Lake Cowal 2017-043	GDA	55	536278	6275796	Open site	Valid	Hearth : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0293	Lake Cowal 2017-039	GDA	55	533990	6279152	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0294	Lake Cowal 2017-040	GDA	55	536690	6276212	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0295	Lake Cowal 2017-041	GDA	55	536791	6276036	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Niche Environment and Heritage,Ms.Rebecca Vartto					<u>Permits</u>		
39-4-0296	Lake Cowal 2017-042	GDA	55	536497	6275756	Open site	Valid	Artefact : -		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 18197 West Wylong

Client Service ID : 370985

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0297	Lake Cowal 2017-038	GDA	55	533990	6279152	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0298	Lake Cowal 2017-037	GDA	55	533304	6277252	Open site	Valid	Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0299	Lake Cowal 2017-035	GDA	55	532686	6278407	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0300	Lake Cowal 2017-036	GDA	55	533125	6278700	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0301	Lake Cowal 2017-034	GDA	55	532643	6278720	Open site	Valid	Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0302	Lake Cowal 2017-033	GDA	55	532725	6278789	Open site	Valid	Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0303	Lake Cowal 2017-032	GDA	55	532978	6278454	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0304	Lake Cowal 2017-031	GDA	55	533193	6278317	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0305	Lake Cowal 2017-030	GDA	55	532404	6279099	Open site	Valid	Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0306	Lake Cowal 2017-029	GDA	55	532120	6279360	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0307	Lake Cowal 2017-028	GDA	55	532222	6279398	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0308	Lake Cowal 2017-025	GDA	55	537650	6275815	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0309	Lake Cowal 2017-026	GDA	55	537127	6275983	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0310	Lake Cowal 2017-027	GDA	55	532396	6279486	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0311	Lake Cowal 2017-021	GDA	55	537664	6276591	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0312	Lake Cowal 2017-022	GDA	55	537937	6276332	Open site	Valid	Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		

Report generated by AHIMS Web Service on 17/09/2018 for Anna Darby for the following area at Datum :GDA, Zone : 55, Eastings : 505029 - 555029, Northings : 6233873 - 6283873 with a Buffer of 0 meters. Additional Info : Survey. Number of Aboriginal sites and Aboriginal objects found is 115

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 18197 West Wylong

Client Service ID : 370985

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
39-4-0313	Lake Cowal 2017-023	GDA	55	537968	6276001	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0314	Lake Cowal 2017-024	GDA	55	537848	6275909	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0315	Lake Cowal 2017-003	GDA	55	534708	6279668	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0316	Lake Cowal 2017-004	GDA	55	534871	6279741	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0317	Lake Cowal 2017-005	GDA	55	534978	6279873	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0318	Lake Cowal 2017-006	GDA	55	533914	6279947	Open site	Valid	Artefact : -, Hearth : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0319	Lake Cowal 2017-007	GDA	55	533400	6279743	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0320	Lake Cowal 2017-008	GDA	55	533177	6279651	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0321	Lake Cowal 2017-009	GDA	55	532874	6279641	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0322	Lake Cowal 2017-010	GDA	55	532771	6279631	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0323	Lake Cowal 2017-011	GDA	55	532949	6278945	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0324	Lake Cowal 2017-012	GDA	55	532802	6278992	Closed site	Valid	Hearth : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0325	Lake Cowal 2017-013	GDA	55	533161	6279034	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0326	Lake Cowal 2017-014	GDA	55	532197	6279787	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0327	Lake Cowal 2017-020	GDA	55	537664	6276591	Open site	Valid	Artefact : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0328	Lake Cowal 2017-019	GDA	55	532271	6279681	Open site	Valid	Hearth : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits
39-4-0329	Lake Cowal 2017-015	GDA	55	531916	6280298	Open site	Valid	Hearth : -		
	Contact	Recorders		Niche Environment and Heritage,Ms.Rebecca Vartto						Permits

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 18197 West Wylong

Client Service ID : 370985

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
39-4-0330	Lake Cowal 2017-016	GDA	55	531808	6280296	Open site	Valid	Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0331	Lake Cowal 2017-017	GDA	55	532155	6280283	Open site	Valid	Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0332	Lake Cowal 2017-018	GDA	55	532029	6280283	Open site	Valid	Hearth : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
39-4-0333	Lake Cowal 2017-001	GDA	55	533957	6279294	Open site	Valid	Artefact : -		
	Contact	Recorders	Niche Environment and Heritage,Ms.Rebecca Vartto					Permits		
43-4-0020	Lake Cowal back plains site A	AGD	55	536100	6278065	Open site	Destroyed	Artefact : -		3148,102172
	Contact	Recorders	Doctor.Colin Pardoe,Doctor.Scott Cane					Permits	1467,1468	
43-4-0021	Cowal back plains site B	AGD	55	535529	6278500	Open site	Destroyed	Artefact : -		3148
	Contact	Recorders	Doctor.Colin Pardoe,Doctor.Scott Cane					Permits	1467,1468	
43-4-0022	Cowal Back Plains site C	AGD	55	535227	6278566	Open site	Destroyed	Artefact : -		3148,102172
	Contact	Recorders	Doctor.Scott Cane					Permits	1467,1468	
43-4-0023	Lake Cowal back plains site D	AGD	55	535708	6277202	Open site	Destroyed	Artefact : -		3148
	Contact	Recorders	Doctor.Scott Cane,Mr.Roly Williams					Permits	1467,1468	
43-4-0024	E	AGD	55	535180	6276950	Open site	Valid	Artefact : -		3148
	Contact	Recorders	Doctor.Scott Cane,Mr.Roly Williams					Permits	1467,1468	
43-4-0025	Lake Cowal back plains site F	AGD	55	534393	6277443	Open site	Destroyed	Artefact : -		3148,102172
	Contact	Recorders	Doctor.Colin Pardoe,Doctor.Scott Cane,Mr.Roly Williams					Permits	1467,1468	
43-4-0026	Lake Cowal back plains site G	AGD	55	534000	6277344	Open site	Destroyed	Artefact : -		3148,102172
	Contact	Recorders	Doctor.Colin Pardoe,Doctor.Scott Cane,Mr.Roly Williams					Permits	1467,1468	
43-4-0027	H	AGD	55	535214	6276163	Open site	Valid	Artefact : -		3148
	Contact	Recorders	Doctor.Scott Cane					Permits	1467,1468	
43-4-0028	Lake cowal back plains site I	AGD	55	533960	6278262	Open site	Destroyed	Artefact : -		3148,102172
	Contact	Recorders	Doctor.Colin Pardoe,Doctor.Scott Cane					Permits	1467,1468	
43-4-0029	Lake Cowal back plains site J	AGD	55	533279	6278393	Open site	Destroyed	Artefact : -		3148,102172
	Contact	Recorders	Doctor.Colin Pardoe,Doctor.Scott Cane					Permits	1467,1468	
43-4-0030	Lake Cowal back plains site K	AGD	55	533279	6277770	Open site	Destroyed	Artefact : -		3148,102172
	Contact	Recorders	Doctor.Colin Pardoe,Doctor.Scott Cane					Permits	1467,1468	
43-4-0031	Lake Cowal back plains site L	AGD	55	533900	6276590	Open site	Destroyed	Artefact : -		3148,102172
	Contact	Recorders	Doctor.Colin Pardoe,Doctor.Scott Cane					Permits	1467,1468	
43-4-0032	Lake Cowal back plains site M	AGD	55	534655	6276360	Open site	Destroyed	Artefact : -		3148,102172
	Contact	Recorders	Doctor.Colin Pardoe,Doctor.Scott Cane					Permits	1467,1468	

Report generated by AHIMS Web Service on 17/09/2018 for Anna Darby for the following area at Datum :GDA, Zone : 55, Eastings : 505029 - 555029, Northings : 6233873 - 6283873 with a Buffer of 0 meters. Additional Info : Survey. Number of Aboriginal sites and Aboriginal objects found is 115

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 18197 West Wylong

Client Service ID : 370985

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
43-4-0033	Lake Cowal back plains site N	AGD	55	534622	6276033	Open site	Destroyed	Artefact : -		3148,102172
	<u>Contact</u>	<u>Recorders</u>								
43-4-0037	ANE Burial	AGD	55	523999	6245231	Open site	Valid	Burial : 3, Artefact : 3	1467,1468	
	<u>Contact</u> T Russell	<u>Recorders</u>								
43-4-0038	West Wyalong Scar Tree	GDA	55	518345	6251228	Open site	Partially Destroyed	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>								
43-4-0039	Scar Tree	GDA	55	515759	6253634	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>								
43-4-0040	West Wyalong	GDA	55	510587	6258473	Open site	Partially Destroyed	Artefact : -, Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>								
43-4-0041	West Wyalong 3	GDA	55	512861	6258070	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>								
43-4-0053	Milga Spear head 1	GDA	55	535246	6247383	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>								

Report generated by AHIMS Web Service on 17/09/2018 for Anna Darby for the following area at Datum :GDA, Zone : 55, Eastings : 505029 - 555029, Northings : 6233873 - 6283873 with a Buffer of 0 meters. Additional Info : Survey. Number of Aboriginal sites and Aboriginal objects found is 115

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Anna Darby

From: David Gordon <David.Gordon@environment.nsw.gov.au>
Sent: Thursday, 20 September 2018 8:22 AM
To: Anna Darby
Subject: RE: Restriction to 43-5-0079

Hi Anna,

I can confirm that Restricted Site 43-5-0079 **will not affected** by any Study in the Depicted Area of the Map you sent.

Thanks



Office of
Environment
& Heritage

David Gordon

Senior Heritage Information
Officer (Aboriginal)
Management Operations
Heritage Division

10 Valentine Street, Parramatta, 2150
Locked Bag 5020, Parramatta, 2124
T 02 9585 6467

From: Anna Darby <Anna.darby@artefact.net.au>
Sent: Thursday, 20 September 2018 7:55 AM
To: David Gordon <David.Gordon@environment.nsw.gov.au>
Subject: RE: Restriction to 43-5-0079

Morning,


Thanks David, I've attached a map.

Anna Darby
Graduate Heritage Consultant

ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439
Address: Level 4, Building B, 35 Saunders Street, Pyrmont NSW 2009
Web: www.artefact.net.au

Cultural Heritage Management | Archaeology | Heritage Interpretation

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

From: David Gordon <David.Gordon@environment.nsw.gov.au>
Sent: Thursday, 20 September 2018 7:39 AM
To: Anna Darby <Anna.darby@artefact.net.au>
Subject: RE: Restriction to 43-5-0079

Hi Anna,

Restricted Site doesn't fall within the Co-ordinates that you provide but just to double check can you send me a Map of the Study Area and Ill visually check as well.

Thanks



Office of
Environment
& Heritage

David Gordon

Senior Heritage Information
Officer (Aboriginal)
Management Operations
Heritage Division

10 Valentine Street, Parramatta, 2150
Locked Bag 5020, Parramatta, 2124
T 02 9585 6467

From: Anna Darby <Anna.darby@artefact.net.au>

Sent: Wednesday, 19 September 2018 4:20 PM

To: CCHD Information Systems & Assessment Mailbox <ahims@environment.nsw.gov.au>

Subject: Restriction to 43-5-0079

Hello,

We are doing a survey near West Wyalong and an extensive AHIMS search includes the restricted site 43-5-0079. Could you confirm that the site is not within our study area?

GDA 1994 MGA 55
528576 – 530276m E
6258430 – 6260430m S

Thank you

Anna Darby

Graduate Heritage Consultant


ARTEFACT

Telephone: 61 2 9518 8411 **Mobile:** 0413 281 439

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

Web: www.artefact.net.au

Cultural Heritage Management | Archaeology | Heritage Interpretation

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