



# Aboriginal Heritage Due Diligence Assessment

# **Jindera Residential Rezoning**

## March 2022

Project Number: 21-782



### **Document verification**

Project Title:	Jindera Residential Rezoning	
Project Number:	21-782	
Project File Name:	21-782 Jindera Rezoning Preliminary Aboriginal Heritage Due Diligence Assessment Draft v.03.docx	

Revision	Date	Prepared by	Reviewed by	Approved by
Final v1.0	31/03/2022	Layne Holloway	Jill Taylor	Ali Byrne

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### Acronyms and abbreviations

ACHA	Aboriginal Cultural Heritage Assessment	
AHIMS	Aboriginal Heritage Information Management System	
AHIP	Aboriginal Heritage Impact Permit	
Due Diligence	Aboriginal Heritage Due Diligence Assessment	
Due Diligence Code	Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW	
ha	hectares	
Heritage Act	Heritage Act 1977 (NSW)	
Heritage NSW	Heritage NSW, within the Department of Premier and Cabinet	
LEP	Local Environmental Plan	
LGA	Local Government Area	
NGH	NGH Pty Ltd.	
NPW Act	National Parks and Wildlife Act 1974 (NSW)	
NPW Regulation	National Parks and Wildlife Regulation 2019 (NSW)	
NSW	New South Wales	
PAD	Potential Archaeological Deposit	
Project Area	Area as assessed in this report	

### **Executive summary**

NGH Pty Ltd was commissioned by BioPlan on behalf of Hurst Earthmoving to undertake an Aboriginal Heritage Due Diligence assessment in accordance with the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (DECCW, 2010) in support of a Rezoning Application for the rezoning of land currently zoned as RU4 - Primary Production Small Lots into R5 Large Lot Residential. The proposed subdivision that will result of the proposed rezone would require assessment under Part 4 of the NSW *Environmental Planning and Assessment Act 1979*. The Project Area includes Lot 5, DP260275; Lot 22, DP635058; Lot 121, DP753345; Lot 122, DP753345, Lot 153, DP753345, and Lot 1, DP785168 east of Jindera within the Greater Hume Local Government Area.

### Background and desktop assessment

An extensive search of the Aboriginal Heritage Information Management System database was undertaken that covered an area approximately 14km x 18km centred on the Project Area. There were 115 Aboriginal sites and nil declared Aboriginal Places recorded within the search area. Site types include stone artefacts, culturally modified trees and potential archaeological deposits. No archaeological sites were registered within the Project Area; however, two sites (AHIMS #55-6-0041 and AHIMS# 55-6-0042) are located approximately 160m north of the Project Area. Both AHIMS #55-6-0041 and AHIMS #55-6-0042 represent subsurface stone artefact scatters.

The Project Area is characterised as east west tending steep to gently sloping basal slopes leading down to alluvial flats and elevated terraces associated with two unnamed third order drainage lines, one of which transects the western portion of the Project Area paralleling Molkentin Road. This unnamed third order drainage line has three east west tending first order tributaries descending from the steeper landforms to the east and transecting the Project Area. These unnamed third order drainage lines merge to flow into Bowna Creek which is located approximately 2.6 kilometres to the west of the Project Area. According to the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (DECCW, 2010) and archaeological modelling for the local area, landforms associated with watercourses have higher potential to contain Aboriginal objects. The desktop assessment therefore indicated that there are landscapes present within the Project Area that have potential to contain Aboriginal objects and a site inspection by an archaeologist was required. Additionally, any old growth mature native trees within the Project Area have the potential to have been culturally modified.

### **Field results**

A visual inspection of the Project Area was undertaken on 28 February 2022 by a qualified NGH archaeologist. Due to the size of the Project Area the desktop assessment identified sensitive landforms with elevated potential for Aboriginal objects or sites to occur. The visibility varied from 95% within exposure areas to less than 5% in areas of dense cover, averaging <10%. The Project Area was noted to be cleared and significantly disturbed in the south eastern portion of Lot 153 DP753345 where gravel extraction activity has dramatically changed the natural landform in parts. With the exception of the south western portion of Lot 153 DP DP753345 and part of Lot 1 DP785168 in which a residence and associated infrastructure is located and a number of dams throughout the Project Area, the remaining portion of the Project Area, although cleared and subject to agricultural practices, is less disturbed and contains numerous mature native trees.

A total of five sites containing stone artefacts (Jindera SD AFT 01 / AHIMS# 55-6-0255, Jindera SD AFT 02 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0259 and Jindera SD AFT 05 / AHIMS# 55-6-0258) were located during the brief targeted pedestrian survey of the Project Area. All five sites were located within 200m of waterways on landforms known to have a high potential to contain Aboriginal objects or sites. Ground surface visibility surrounding these sites outside the exposures in which they were situated was very poor as it was throughout most of the Project Area. The soil profile identified the drainage line paralleling Molkentin Road (Plate 6-10) indicates the presence of sub surface or *in situ* cultural deposits and it is highly likely that other unidentified Aboriginal objects occur within the vicinity of these and across the broader basal slope and flat terraced landforms within the Project Area. The outcomes of the site inspection have determined the presence and moderate to high likelihood of further Aboriginal objects within the Project Area and has identified locations of low, moderate and high archaeological sensitivity (Figure 7-1) to inform future assessment.

### Impact assessment conclusion

Both the desktop analysis and site inspection determined that the Project Area contains multiple landforms considered highly likely to contain Aboriginal objects. Despite the time constraints on the field survey and that visibility averaged less than 10% throughout much of surveyed area, multiple Aboriginal sites were located within the Project Area. Given this and the consideration of the levels of ground surface disturbance associated with housing subdivision developments, further assessment in the form is required to fully understand archaeological values and potential of the Project Area.

An Aboriginal Heritage Impact Permit (AHIP) would be required in order to impact the five Aboriginal sites (Jindera SD AFT 01 / AHIMS# 55-6-0255, Jindera SD AFT 02 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0259 and Jindera SD AFT 05 / AHIMS# 55-6-0258) and due to the lack of visibility during the site visit, the Project Area may require subsurface testing to establish the true archaeological potential, nature and extent of Aboriginal sites in this area. This would also require undertaking an Aboriginal Cultural Heritage Assessment (ACHA) for the project, including Aboriginal community consultation.

### Recommendations

It is recommended

- The proposed rezoning for the Project Area may proceed, however any ground disturbance works associated with the future development of the alluvial flats, elevated terrace landforms and basal slopes which were determined to be of moderate to high archaeological sensitivity (as demarked in red and orange in Figure 7-1) within the Project Area will require further heritage investigation and assessment. A limited programme of subsurface testing under the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* would be required to be undertaken. This would form part of an Aboriginal Cultural Heritage Assessment (ACHA) and include Aboriginal consultation in accordance with the Requirements.
- Should the previously recorded Aboriginal sites within the Project Area not be able to be avoided by any future development subsequent to the proposed rezoning of the area, an Aboriginal Heritage Impact Permit (AHIP) would be required to impact these sites. This would require undertaking an Aboriginal Cultural Heritage Assessment (ACHA).

- 3. Any future development works outside the areas of moderate and high archaeological sensitivity and the locations of the Aboriginal sites Jindera SD AFT 01 / AHIMS# 55-6-0255, Jindera SD AFT 02 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0259 and Jindera SD AFT 05 / AHIMS# 55-6-0258 (as demarked in green in Figure 7-1) within the Project Area do not require further assessment and therefore the proposed rezoning and any future development works can proceed with caution in these areas.
- 4. Any activity proposed outside the current assessment area should also be subject to an Aboriginal heritage assessment

BioPlan reminded that it is an offence under the *NSW National Parks and Wildlife Act* 1974 to disturb, damage or destroy and Aboriginal object without a valid Aboriginal Heritage Impact Permit (AHIP).

### 1. Introduction

NGH Pty Ltd (NGH) was commissioned by BioPlan on behalf of Hurst Earthmoving to undertake an Aboriginal Heritage Due Diligence assessment (Due Diligence) for Aboriginal heritage sites in support of a Rezoning Application to rezone land currently zoned as RU4 - Primary Production Small Lots into R5 Large Lot Residential within Greater Hume Shire Council. The proposed subdivision that will result from the proposed rezone would require assessment under Part 4 of the NSW *Environmental Planning and Assessment Act 1979*.

As the proposal involves the rezoning of agricultural land for residential subdivision that in itself will not harm potential Aboriginal objects or sites, this assessment will evaluate the presence or potential for Aboriginal sites to occur that may be affected by any future development of the Project Area. As a residential subdivision will eventually involve vegetation clearance, ground surface leveling, the construction of houses and installation of associated infrastructure such as roads, driveways, utilities and drainage management, this Due Diligence assessment is undertaken to evaluate whether Aboriginal objects or sites are present, or likely to be present, within the proposed impact area of the future development activity, and if those Aboriginal objects or sites would be harmed by the activity.

### 1.1 Subject site

The Project Area is currently zoned RU4 - Primary Production Small Lots and it is proposed to rezone the land into R5 - Large Residential Lots.

These parcels of land are identified in Figure 1-1 and Figure 1-2 and described as follows:

- 344 Molkentin Road, Jindera (Lot 5, DP260275);
- 167 Funk Road, Jindera comprising:
  - o Lot 22, DP635058;
  - o Lot 121, DP753345;
  - o Lot 122, DP753345;
  - o Lot 153, DP753345.
- 111 Funk Road, Jindera (Lot 1, DP785168).

### 1.2 Project personnel

The Due Diligence assessment was carried out by qualified archaeologist Jill Taylor of NGH who undertook the field inspection. Heritage Consultant Layne Holloway completed the background research, GIS and writing of this report. Senior Heritage Consultant Jill Taylor reviewed the report for quality assurance purposes and Senior Heritage Consultant Ali Byrne approved the report for distribution.

### **1.3** Aboriginal consultation

The Due Diligence process does not formally require consultation with Aboriginal community groups. No Aboriginal groups were contacted for this Due Diligence level assessment. The Project Area is within the boundaries of the Albury and District Local Aboriginal Land Council.

### **1.4** Approach and format of this report

This report has been drafted in keeping with the sequence of steps identified in the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (Due Diligence Code) (DECCW, 2010). The Due Diligence Code outlines a five-step approach to determine if an activity is likely to cause harm to an Aboriginal object, as defined by the *NSW National Parks and Wildlife Act 1974* (NPW Act). The steps follow a logical sequence of questions, and the answer to each question determines the need for the next step in the process in order to:

- Identify whether Aboriginal objects are, or are likely to be, present in the Project Area;
- Determine whether or not the proposed activities are likely to harm Aboriginal objects (if present) in the study area; and
- Determine whether an Aboriginal Heritage Impact Permit (AHIP) application is required.

Table 1-1 Due Diligence steps

	Due Diligence steps	
Step 1.	Will the activity disturb the ground surface?	
Step 2a.	Search the AHIMS database and use any other sources of information of which you are already aware.	
Step 2b.	Are activities proposed in areas where landscape features indicate the presence of Aboriginal objects?	
Step 3.	Can you avoid harm to the object or disturbance of the landscape feature?	
Step 4.	Undertake a desktop assessment and visual inspection. Is it likely that Aboriginal objects will be impacted by the proposed works?	
Step 5.	Further investigations and impact assessment.	

If the proposed activities are not 'low impact activities' (a defence for which is provided under the NPW Regulation), the considerations result in a determination of whether or not:

- Further approval under the NPW Act is required, in the form of an AHIP; or
- Due Diligence obligations for the protection of Aboriginal objects are discharged by the process under the Code.

For the purposes of the Due Diligence assessment, disturbed land is defined in the Due Diligence Code. Land is disturbed if it has been the subject of a human activity that has changed the land's surface, with the changes remaining clear and observable.

The defence against prosecution offered by following the Due Diligence Code process does not apply to situations where it is known there is an Aboriginal object present. The defence does not authorise harm to Aboriginal objects.

Each section within this report follows the relevant step outlined in the Due Diligence Code (DECCW, 2010). Reference is also made, where relevant, to the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH, 2011) and the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* (DECCW, 2010).



Figure 1-1 General project location



Figure 1-2 Jindera Residential Rezone Project Area

### 2. Legislation

In NSW, Aboriginal heritage is principally protected by two legislative acts:

- National Parks and Wildlife Act 1974 (NSW) (NPW Act) and its subordinate legislation, the National Parks and Wildlife Regulation 2019; and
- Environmental Planning and Assessment Act 1979 (NSW) (EP&A Act).

### 2.1 National Parks and Wildlife Act 1974

Part 6 of the NPW Act concerns Aboriginal objects and places and various sections describe the offences, defences and requirements to harm an Aboriginal object or place. All Aboriginal material receives blanket protection under the NPW Act. The main offences under section 86 of the NPW Act are:

- A person must not harm or desecrate an object that the person knows is an Aboriginal object.
- A person must not harm an Aboriginal object.
- For the purposes of this section, "circumstances of aggravation" are:
  - that the offence was committed in the course of carrying out a commercial activity; or
  - that the offence was the second or subsequent occasion on which the offender was convicted of an offence under this section.
- A person must not harm or desecrate an Aboriginal place.

An Aboriginal object is defined 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 the occupation of that area by persons on non-Aboriginal extraction and includes Aboriginal remains.

Section 87 sets out defences that are available to a person who is prosecuted for a particular harm offence under section 86. For example, it will be a defence in certain circumstances if the person who is being prosecuted can show that:

- the harm or desecration was authorised through an Aboriginal Heritage Impact Permit (AHIP) and conditions of the AHIP were not contravened;
- the person exercised due diligence to determine whether the act/omission constituted the offence would harm an Aboriginal object and reasonably determined no harm would occur;
- the person complied with requirements or a code of practice, as prescribed in in the National Parks and Wildlife Regulation (2019); or
- was a low impact act or omission.

Section 89A of the NPW Act also requires that a person who is aware of an Aboriginal object, must notify the Director-General in a prescribed manner. In effect, this section requires the completion of AHIMS site cards for all sites located during heritage surveys.

### 2.2 Environmental Planning and Assessment Act 1979

The EP&A Act regulates development in NSW. It sets up a planning structure that requires developers (individuals or companies) to consider impact of the project on the environment and to promote the sustainable manage of built and cultural heritage (which includes Aboriginal cultural heritage). The EP&A Act requires that Aboriginal cultural heritage, and the possible impacts that development may have to Aboriginal heritage be considered, as part of the environmental impact assessment process under the EP&A Act. For most projects requiring assessment under Part 4 and 5 of the EP&A Act, the NPW Act will apply and an AHIP may be required. However, where the project is a "State Significant" project approved under Part 4 of the EP&A Act, the operation of the NPW Act is excluded the Part 4 assessment will involve consideration of impact to Aboriginal cultural heritage.

It also provides for the identification, protection, and management of heritage items through inclusion of these items into schedules off planning instruments, such as Local Environmental Plans (LEPs).

### 2.3 Greater Hume Shire Local Environmental Plan 2012

The Project Area is located within the Greater Hume Shire Local Government Area. Clause 5.10 of the 2012 LEP requires that development consent be obtained for any proposed activity which will result in impacts to an Aboriginal object or Aboriginal Place. This includes any identified within the LEP itself, or on any other register.

Schedule 5 of the LEP 2012 details the included environmental heritage items covered by the plan. No Aboriginal sites or places listed on Schedule 5 are located within the Project Area.

### 3. Ground disturbance

### Step 1. Will the activity disturb the ground surface or any culturally modified trees?

The proposal will involve a Rezoning Application amending the Greater Hume LEP 2012 to rezone the land from RU4 - Primary Production Small Lots to R5 – Large Lot Residential. An appropriate minimum lot size would be determined through the initial investigations and planning proposal.

If adopted, the proposed LEP amendment would facilitate phase two of the proposed subdivision of the Project Area. Subdivision of the land would be subject to Council approval under a future Development Application and would be subject to provisions under relevant legislation.

The approval of rezoning will not involve any ground disturbance works to the Project Area. The subsequent development of the Project Area for residential housing will involve the following:

- Vegetation clearance;
- Ground surface leveling;
- Construction of residential dwellings and
- Installation of infrastructure such as driveways, utility connections and drainage.

These activities require moderate to significant ground disturbance, such as civil works that may involve excavation and leveling the ground surface, use of heavy machinery and vegetation removal. Any Aboriginal sites within the rezoning application area could therefore be subject to harm by future works. Therefore, this assessment will consider the eventual development of the Project Area if rezoning is successful. As the eventual development will include ground disturbance, the next step in the due diligence process will be completed.

### 4. Register search and landscape assessment

### Step 2a. Search the AHIMS Database and other information sources

A search of relevant heritage registers for Aboriginal sites and places provides an indication of the presence of previously recorded sites. A register search is not conclusive, however, as it requires that an area has been subject to archaeological survey, and information about any sites identified has been submitted for registration. However, as a starting point, the search will indicate whether any sites are known within or adjacent to the investigation area and provide oversight regarding the site types most commonly recorded within the locality. The Aboriginal Heritage Information Management System (AHIMS) provides a database of previously recorded Aboriginal heritage sites. A search provides basic information about any sites previously identified within a search area. The results of the search are valid for 12 months for the purposes of a due diligence level assessment.

On 21 February 2022 a search of the AHIMS database was undertaken over a 14km x 18km search proximity centred on the Project Area, as follows:

- Client Service ID: 661141
- Lat/Long: 36.0265 and 146.772
- Lat/Long: 35.8875 and 147.0192.
- Aboriginal objects:
  - o **115**
- Aboriginal Places:

o 0

There were 115 Aboriginal sites recorded within this search area and 0 declared Aboriginal Places. Table 4-1 below shows the breakdown of site types. Figure 4-1 and Figure 4-2 show the location of the AHIMS sites in relation to the Project Area.

Table 4-1 Breakdown of previously recorded Aboriginal sites in the region

Site type	Number
Modified Tree (Carved or Scarred)	27
Artefact	85
Artefact and Potential Archaeological Deposit (PAD)	2
Artefact and Modified Tree (Carved or Scarred	1
Total	115

None of the archaeological sites currently recorded on AHIMS are located directly within the Project Area, however, two sites occur within 200m. These sites are summarised in Table 4-2 below and shown in Figure 4-2.

Jindera Residential Rezoning

Site number	Site name	Site type	Distance to project (m)	Site status on AHIMS
55-6-0041	ABP/NSW 5	Artefact	107m north	Valid
55-6-0042	ABP/NSW 6	Artefact	170m north	Valid

### Aboriginal Heritage Due Diligence Assessment

Jindera Residential Rezoning



Figure 4-1 AHIMS sites surrounding the Project Area

### Aboriginal Heritage Due Diligence Assessment

Jindera Residential Rezoning



Figure 4-2 AHIMS sites near Project Area

### 4.1 Archaeological context

In order to establish an understanding of the archaeological context of the Project Area, a brief summary of regional and local archaeological studies is provided below.

### 4.1.1 Regional context

Aboriginal people have occupied what we now know as the Australian continent for at least 40,000 years and perhaps 60,000 years and beyond (Hiscock 2008). There have been no known dated excavations in the Jindera or Albury area, although the archaeological evidence from Lake Mungo, 425km to the north-west, provides ample evidence of Aboriginal occupation dating back 40,000 years (Mulvaney and Kamminga 1999, Hiscock 2007). The following are summaries of those archaeological survey reports that have been completed in the Jindera-Albury region, these have been primarily driven by development and infrastructure requirements.

Early mapping of tribal boundaries by Tindale (1940; 1974) and subsequent mapping by Horton (1994) identified the Jindera Project Area as within the Wiradjuri language group. It should be noted however that today not all Aboriginal groups agree with the mapped boundaries presented in Tindale and other publications.

There are a number of ethnographic recordings of Aboriginal life in the Riverina region from the 1800s. Most notably, the observations of Beveridge (1883) focused on the prevalence of Aboriginal people around water ways in the region. Early settlers and others who wrote about the Wiradjuri people and customs differentiated between the origin of some groups, referring to people as the Lachlan or Murrumbidgee tribes, or the Levels tribe for those between the two major rivers (Woolrych 1890). The extent of the Wiradjuri group means that there were many different environments that were exploited for natural resources and food. Like everywhere in Australia, Aboriginal people were adept at identifying and utilising resources either on a seasonal basis or all year round.

A survey of the Albury area by Crosby (1978) identified that open camp sites and scarred trees are the most common site types in the wider Albury Region. Crosby noted that due to the limited range of usable stone outcropping in the region it is unlikely that Aboriginal quarries will occur, however, areas where vein quartz occurs should be inspected. Additionally, due to geology and topography of the area and lack of large rock outcrops with shelters suitable for painting or banks suitable for carving it is very unlikely that art sites, grinding grooves or ceremonial areas will be identified. Crosby's (1978) survey of six sites returned seven Aboriginal artefacts consisting of six scarred trees and a large volcanic cobble.

In 1998 Navin and Kamminga undertook a subsurface testing program for the proposed Wodonga to Wagga Wagga Natural Gas pipeline. The previous surveys, carried out between 1995 and 1997, identified a total of 39 Aboriginal sites, four isolated finds and eight areas of potential archaeological deposit (PAD). Four of these sites and seven PADs were to be impacted by the proposed development and were subject to further investigation. All of these PADs contained *in situ* archaeological material and their associated deposits were thought to extend beyond the proposed pipeline easement. Conclusions drawn from the archaeological material and landscape analysis suggested the size of the lithic fragments, in particular the microlith examples, infers a lack of raw material sources in the region. The density of the assemblage indicates that small groups were occupying short-term camps for short periods along creek banks with no direct evidence of longer-term base camps. The assessment results suggest that continuous areas of artefact distribution should be placed around all fluctuating and stable riparian zones. Most of the

artefactual material was identified in subsurface contexts at least 100m away from high order and 40m away from low order stream banks and basin edge depressions.

In 2015 Associates Archaeology and Heritage undertook an Aboriginal Cultural Heritage Assessment for a subdivision development at Drumwood Road, Jindera, located approximately 2km north of the Project Area. The area consisted of a 41ha area on a gentle slope southward of Bowna Creek. Two surface flaked stone artefacts were recovered during the initial survey which prompted the need for further investigation in the area. Test excavation was carried out across the proposed subdivision area with 82 test pits excavated. A total of eight subsurface artefacts were recovered from 20.5 m<sup>2</sup> of excavated material across the Project Area. This is an artefact density of 0.36 artefacts/ m<sup>2</sup>. The artefacts recovered were all made from white milky quartz and were located on ridge crest, slope and flat topographic units. The artefact types identified during the survey and testing program were all flakes, flake fragments and angular fragments with no cores recorded. Associates Archaeology suggested that the wide distribution of the eight artefacts across the site was considered to demonstrate that the area was subject to frequent land use by Aboriginal people in the past but was not the site of complex / residential activity. the absence of notable concentrations of artefacts within the Project Area was consistent with the modelling in the area which suggests that complex moderate-high density lithic sites are found on elevated terraces near to water rather than on low lying flats.

NGH (2017) completed an ACHA of Jindera Solar Farm located proximately 10km north west of the Project Area. The study area included 404ha of farmland. Despite poor visibility (10% on average) artefact scatters (n=7) isolated finds (n=15) and PAD's (n=4) were located. Subsurface testing was completed with 52 test pits targeting the four PADs. The testing program targeted raised landforms in proximity to artefact scatters or adjacent to Dead Horse Creek. The testing recovered 80 stone quartz artefacts and indicated discrete low density surface artefact scatters and clusters of very low-density subsurface artefact deposits. One PAD did not locate any artefactual material. The results of this survey and subsurface testing program support the modelling for the region indicating that small groups were occupying short-term camps across the study area with an occupation focus along watercourses and elevated areas in close proximity to a water source.

### 4.1.2 Local context

In 1980 Barz undertook an archaeological survey for a proposed transmission line from Jindera to Ettamogah. This survey intersected with the north east corner of the current Project Area and paralleled the northern portion before veering to the east. Numerous isolated artefacts were identified during this survey including quartz cores, flakes, a thumbnail scraper and a granite flaked piece although none of these artefacts occurred within the Project Area.

Upcher and Smith (1994) conducted an archaeological assessment for Working Party 1 of the proposed Albury-Wodonga regional centre road bypass routes. The assessment area included an inner route, extending through Jindera Hills, and an outer route, extending parallel to the Hume Highway, and passing through the western corner of the current Project Area. The survey identified seven open artefact scatters and three isolated artefacts. In addition, five PAD areas were recorded in "areas associated with river and creek terraces" (Upcher and Smith 1994, p.22 as cited in Biosis 2008, p.32). All the sites were located in relatively close proximity to natural watercourses, with sites located predominantly on creek banks and, to a lesser extent, creek terraces and flats. Visibility along creek lines was excellent, whereas overall visibility was poor, and this likely affected the ability to identify sites (Upcher and Smith 1994, p.17 as cited in Biosis 2008, p.32). The artefacts were exclusively manufactured from quartz, varieties of which included milky, grey

(smoky), rose, and crystal, and artefact types included flakes, cores, and a thumbnail scraper (as cited in Biosis 2008, p.32).

In 2002, Terraculture completed an Aboriginal Cultural Heritage Assessment and subsurface excavations for the proposed Albury Wodonga Bypass. An initial site survey identified archaeological sensitivity on the Murray River flood plains and on the Jindera plain, hills and ridgelines. Terraculture noted that the occurrence of eroding reef quartz from the exposed hilltop landforms of Jindera affected the outcomes of the initial survey results, therefore all quartz material was re-analysed by a lithic specialist to conclude artefactual material. The site survey located scar trees (n=4) artefact scatters (n=4) and isolated artefact scatters (n=2) along the 26km of proposed road corridor.

Backhoe excavation scrapes were adopted to investigate subsurface archaeological deposits in locations of PADs identified at Sandy Creek, Ringa-a-Rah Lagoon, Moorangury Creek and specifically Midlec property PAD, which is of particular interest to the current assessment, being located 160m north of the Project Area. The excavations located 77 artefacts, one additional isolated find and one hearth across all five areas. Quartz was the dominant lithology (93.49%) however granite, siltstone and volcanic material was also present. Complete flakes represented 36% of the assemblage, cores made up 25% and broken flakes made 35%. The Midlec property PAD is located on the north western border of the current Project Area. The excavation involved four backhoe 50m to 60m scrapes to the depth of 30cm. Two scrapes were conducted on either side of the unnamed dry and heavily eroded creek bed led to the recording of 4 subsurface artefacts within two sites, AHIMS #55-6-0041 and AHIMS#55-6-0042. The methods chosen for this are not often utilised in archaeological practice, as they are not able to provide in depth details beyond the presence and absence of stone tool artefacts. While this assessment confirmed that Aboriginal quartz stone tools are present within the study area, very little detail has been provided regarding morphology such as depth or extent of the landform description of the deposit. Generally speaking, the outcomes of this testing programme support the archaeological modelling for the region, demonstrating landforms associated with a water source are likely to contain Aboriginal quartz stone tools.

### 4.2 Landscape assessment

# Step 2b. Are there undisturbed landscape features present likely to contain Aboriginal objects?

The Due Diligence Code outlines a range of landscape features that have higher potential to contain Aboriginal objects. It is also necessary to consider whether there are landscape features of undisturbed land that may contain Aboriginal objects. These include land that is:

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

Understanding the landscape context of the Project Area may also assist us to better understand the archaeological modelling of the area and assist to identify local resources which may have been utilised by Aboriginal people. This information can then potentially be used in predicting the nature of Aboriginal occupation across the landscapes within and adjacent to the Project Area. Factors that are typically used to inform the archaeological potential of landscapes include the presence or absence of resources that would have been utilised by Aboriginal people including water, animal and plant foods, stone and other resources.

The Project Area contains one third order and three first order drainage lines associated with nearby Bowna Creek. Drainage lines are known throughout the region to be of relatively high archaeological sensitivity. Further, previous archaeological studies within the wider region have noted the significant archaeological association with Aboriginal camp site locations presenting artefact scatters within basal slopes, alluvial flats and elevated terrace landforms in association to water. Therefore, the Project Area contains multiple landscape features that are likely to contain Aboriginal objects.

### 4.2.1 Geology

Understanding the geological character of the local area can assist with understanding what, if any, raw stone materials may have been available for the manufacture and maintenance of stone tools or for use as shelter.

The geology of the Jindera area is dominated by a basal layer of schist from the Upper Ordovician and into the Silurian, characterised by low grade metasediments and sediments of slate, phyllite, greywacke, siltstone, mudstone and shale (Willis, 1974). The Project Area is characterised by the underlying Jindera Granite, a pink to white porphyritic biotite granite that can vary from being medium to coarse grained (Willis, 1974). Possible metasedimentary layers and quartz inclusions in granite features may have provided stone resources for Aboriginal utilisation where occurrences are present on the surface or in eroded stream features.

### 4.2.2 Topography and hydrology

The Project Area is comprised of a steep east west tending slope descending from a hill crest becoming gentle basal slopes which lead down to the alluvial flats and elevated terraces adjacent to two third order drainage lines, one of which occurs within the Project Area. Three first order drainage lines follow the slope down to the third order drainage line within the Project Area. While these first order drainage lines are ephemeral and flow from farm dams, prior to land disturbance they originated in the steep slopes to the east of the Project Area and may have been utilised by Aboriginal People. Bowna Creek lies approximately 2.6km to the north west of the Project Area and is the end point of the third order drainage line that flows through the Project Area. Bowna Creek flows south into the Hume Dam and Murray River catchments. Waterways provide a resource for food, hydration and travel, therefore landforms associated within 200m provide archaeological sensitivity for open context campsites that may hold Aboriginal objects *in-situ*.

### 4.2.3 Soils

The formation and nature of soils within the Project Area can provide insight into the types of sites which may be present, in addition to the likelihood for intact archaeological deposits to be present.

Soil landscape mapping identifies the Project Area within the Kindra landscape area (DECCW, 2010). The transferal soil landscape contains Quaternary alluvial sediments of red brown earths, grey clays and deep sandy soils with this region. Soils have formed on recent Quaternary slope wash derived from Ordovician metasediments. Parent materials consist of gravel, sand, silt and clay colluvial deposits and will be present in degrading soils that are often located in areas where sheet and gully erosion occur in cultivated lands and drainage areas. The broad gently sloping basal slopes and elevated terraces within the Project Area are formed on deep colluvium and

provide excellent preservation of subsurface archaeological deposits in undisturbed landscapes where archaeological potential occurs. Further, alluvial sediments provide excellent preservation environments where subsurface archaeological deposits occur. The gully erosion scars within the Project Area provided excellent ground surface exposure revealing a deep partial silty sandy loam soil profile (Plate 6-10).

### 4.2.4 Flora and fauna resources

The majority of the Project Area has been cleared for agriculture and is currently used for cropping and grazing. Pastures vegetated primarily by exotic flora are heavily grazed by livestock and native groundcover has been lost in certain areas that have been occupied by cattle for long periods of time.

The native vegetation in the landscape surrounding the Project Area is considered to be predominantly grassy woodland comprised of Blakely's Red gum (Eucalyptus blakelyi), River Red Gum (Wiradjuri–Binyal) (*Eucalyptus camaldulensis*), White Box (Wiradjuri–Birri) (*Eucalyptus albens*) and Yellow Box (Wiradjuri–Baagang) (*Eucalyptus melliodora*). These species are still present broadly across the Project Area and concentrated around riparian creek corridors. Eucalypts were utilised by Aboriginal people for several economic and medicinal purposes. The oilbearing leaves were used to relieve colds, headaches, backaches and fevers. Seeds, bark from young roots, nectar, galls, wild honey and manna from certain species of Eucalypts can be eaten. Gum from eucalypts can be directly applied to sores and abrasions or boiled in water and used as a wash. The wood was used to make tools and other implements such as dishes and bowls. Eucalypt bark is used to make shelters and canoes, it can also be fashioned into fishing lines, nets and baskets. These as well as other bushes, herbs, grasses and forbs and wetland plants within the Project Area would have provided a wide variety of resources for the manufacture of wooden implements, medicine and food, as well as habitats for animals that were also used for food.

Many mature native trees remain within the Project Area, there is a likelihood that scarred trees may be present, as Blakely's Red Gum, and Yellow Box are known to have been favoured species for the extraction of bark for use as canoes, shields, and containers by Aboriginal people in the past.

### 4.2.5 Historic land use

European settlement of the Riverina area followed relatively rapidly after Hume and Hovell travelled through the area in 1824. The Jindera area has a long history of intensive agricultural and pastoral use. The majority of the area has been utilised for grazing and crop production since European settlement in the mid 1800's. The Project Area is located within the Parish of Jindera, County of Goulburn. Parish maps dating back as far as 1892 provide an indication of the historical land use across the area. The Project Area was occupied from at least 1892, with the 1892 Parish Map showing a combination of private land grants. The area is indicated to be largely utilised for farming purposes (both agricultural and stock farming).

A number of historical developments have disturbed the Project Area overtime, including minor road developments, residential dwellings, dams and utility infrastructure as well as farming and the resultant gully erosion. Historic aerial photography has indicated that the steep slopes of the southeastern portion of Lot 153 DP753345 within the Project Area have been subject to gravel extraction since the mid-1970s. While this area may have been utilised by Aboriginal people as a high point overlooking the basal slopes and drainage lines, there is limited likelihood that evidence of Aboriginal occupation remains in this area due to the intense nature of the disturbance. With the exception of the area used for gravel extraction and immediately surrounding the residential area and sheds, the subsurface soil profiles within the remainder of the Project Area are relatively intact and any subsurface archaeological deposits, where present, would likely remain intact and provide a good stratigraphic example of deposition and archaeological processes.

### 4.3 Aboriginal site prediction

Based upon the initial desktop assessment, using satellite imagery and topographic data, it appears that there is moderate to high potential for Aboriginal objects to occur within the Project Area given its proximity to previous recorded sites and the location of sensitive landscape features such as basal slopes, alluvial flats and elevated terraces in association with drainage lines and tributaries.

Based on the studies discussed above it is possible to suggest that while Aboriginal sites may be expected through all landscapes there does appear to be a pattern of sites that relate to the presence of potential resources for Aboriginal use. In the Jindera area the dominant raw material type is quartz. Sites tend to be concentrated on elevated level ground associated with a water source and are noted to consistently occur on raised terrace landforms in proximity to creek lines (NGH 2017, Border Archaeology 2008; Terraculture 2002, Smith & Upcher 1992). Additionally, the presence of scarred trees on box and river red gums is relatively common and can occur in all landscapes.

Based upon the currently recorded AHIMS sites in the area there is potential for artefact scatters, isolated artefacts and culturally modified trees where old growth native trees remain.

The desktop assessment, therefore, indicates that there are landscapes present within the Project Area that have the potential to contain Aboriginal objects. The nature of the works being undertaken at this site will eventually involve moderate to significant ground disturbance and it is possible that it would impact on Aboriginal heritage objects on the surface and subsurface.

An outline of predicted Aboriginal objects within the activity area is provided in Table 4-3.

Site type	Site description	Potential
Artefacts scatters and isolated artefacts	Stone artefact scatter sites can range from high-density concentrations through to isolated finds.	High potential to occur in low to moderate densities.
Potential Archaeological Deposits (PADs)	Potential subsurface deposits of archaeological material.	Potential to occur within Project Area in areas of elevated flat land associated with ephemeral drainage lines.
Modified Trees (Carved or scarred)	Trees that have undergone cultural modification in the process of removing or marking bark for resources or cultural practices.	Moderate potential to occur within the Project Area where there are remnant mature native trees associated with Aboriginal occupation.

Table 4-3 Aboriginal site prediction statements for the Project Area

### 5. Impact avoidance

### Step 3. Can any AHIMS listed objects, or landscape features be avoided?

Based on the initial desktop study and landform modelling, which identifies areas containing archaeological sensitivity, the Project Area falls within an area of moderate to high archaeological sensitivity (see Figure 7-1). The gentle basal slope running east to west across the Project Area towards two third order drainage lines that lead into Bowna Creek, and the three first order drainage lines that traverse the Project Area and their associated alluvial flats and elevated terraces, will be potentially impacted by the eventual subdivision works and are classified as highly sensitive landforms. Therefore, a visual inspection of the Project Area is warranted. While the rezoning of the area as a whole is unlikely to impact the sites on its own, the exact footprint of future development is currently unknown but assumed to be flexible in nature to some degree.

The desktop assessment alone is sufficient to conclusively define the archaeological potential of the landscape, however a visual inspection is warranted to determine the location of Aboriginal objects or potential archaeological deposits and is therefore the next step in the assessment process.

### 6. Desktop assessment and visual inspection

# Step 4. Does the desktop assessment confirm that there are likely to be Aboriginal objects present or below the ground surface?

The assessment process is primarily a desktop exercise, using available information such as the AHIMS search results and relevant archaeological reports to develop or refine a model of Aboriginal site prediction based on the type of activity proposed and the level of disturbance of the area. A visual inspection is also required where landscape features are present that may contain Aboriginal objects that cannot be avoided by the activity.

### 6.1 Visual inspection

A visual inspection of the Project Area was undertaken on 28 February 2022 by qualified NGH archaeologist Jill Taylor.

The targeted pedestrian survey prioritised the examination of sensitive landforms such as drainage lines and rock outcropping within the Project Area. The site inspection was undertaken during a wet summer, therefore ground surface visibility was largely impeded by vegetation growth and high grasses. Visibility across the Project Area was generally poor (approximately <10%) with minimal areas of increased visibility (Plate 6-1). Improved areas of ground exposures were observed in areas of eroded gullies and creeks and areas of disturbance such as rabbit warrens, cattle tracks (Plate 6-2), bases of fence posts and gates and electricity poles and a large at the quarry area (Plate 6-9) where excavation had removed and disturbed the ground significantly. Weathered Jindera Granite outcrops were present in the southwest basal slopes of the Project Area (Plate 6-8).

Landscapes within the Project Area were broadly fitting of alluvial flats (Plate 6-1), eroded gullys and creeks (Plate 6-4), elevated terraces (Plate 6-5), basal slopes (Plate 6-6), gently sloping plain (Plate 6-7), elevated rocky outcrops (Plate 6-8) and disturbed landforms (Plate 6-3 and Plate 6-9).

Four sites (Jindera SD AFT 02 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0259 and Jindera SD AFT 05 / AHIMS# 55-6-0258) were identified within the elevated terrace and alluvial flat landforms present in Lot 121 DP753345, Lot 22 DP635358, Lot122 DP753345 and Lot 5 DP260275 (Figure 6-1, Figure 6-3, and Figure 6-4). Further details of each site are provided in Section 6.2 below.

Bedrock outcropping was noted across the steeper slopes within Lot 121, DP753345 and Lot 153, DP753345 on the western boundary of the Project Area. The outcropping was inspected for evidence of quarrying or grinding grooves, however, the loose decaying nature and the conglomeration within the aging Jindera Granite was not conducive to either quarrying or grinding. One smaller outcropping in Lot 121, DP753345 occurred on a gentle basal slope overlooking the east west tending first order drainage line paralleling Rock Road and the alluvial flats and elevated terraces associated with the drainage line. One site Jindera SD AFT 01 / AHIMS# 55-6-0255 containing seven quartz artefacts was identified within this outcropping (Figure 6-1 and Figure 6-2, Plate 6-8, Plate 6-13 and Plate 6-14). Visibility was low at the time of survey, and it is thought that this site would extend further than was recorded at the time.

Lot 153 DP753345 contained a large residence with associated sheds, fencing, large built-up equestrian yard and associated utilities (Plate 6-3). The disturbed residential area within Lot 153 DP753345 as demarked in green in Figure 7-1 was deemed highly disturbed and unlikely to contain *in situ* Aboriginal objects or sites. The remainder of Lot 153 DP753345, contained a

number of mature native trees and the relatively less disturbed gently sloping basal slopes and unnamed first order drainage line transecting the property were deemed to hold potential for Aboriginal objects and sites to occur.

A large gravel extraction area located in the western portion of Lot 153, DP753345 provided excellent visibility of the subsurface soil profile. However, the significant levels of ground disturbance as a result of the extraction all but eliminated any potential for Aboriginal objects subsurface archaeological deposits to occur in areas where this activity occurred. This area also contained a large shed and work area and associated utilities. This area was deemed highly disturbed and unlikely to contain *in situ* Aboriginal object or sites.

With the exception of the significant level of disturbance in the western portion of Lot 153, DP753345 which was used as an area for gravel extraction, the Project Area generally contained a moderate level of ground disturbance through past tree clearing, agricultural practices, vehicular tracks, residential buildings and associated infrastructure.

Remnant mature native trees were present throughout the Project Area. The archaeological model for the Jindera region suggests that modified trees of Aboriginal origin are likely to occur. Due to time constraints the mature native trees within the Project Area were not examined at the time of the targeted field survey. However, the presence of mature Blakely's Red Gum and Yellow Box tree species is confirmed within the Project Area (Plate 6-11 and Plate 6-12) and will require further inspection with Aboriginal community members to determine cultural values.

Site photographs below in Plate 6-1 to Plate 6-12 were taken during field work:

### 6.2 Inspection results

Despite the low ground visibility and observed disturbances, five archaeological sites (Jindera SD AFT 01 / AHIMS# 55-6-0255, Jindera SD AFT 02 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0259 and Jindera SD AFT 05 / AHIMS# 55-6-0258) were identified within the Project Area (Figure 6-1, Figure 6-2, Figure 6-3 and Figure 6-4 ). Three sites (Jindera SD AFT 02 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0259) were identified along the eroded gullies of the third order drainage line that parallels Molkentin Road, one site (Jindera SD AFT 05 / AHIMS# 55-6-0258) was identified at the gate opposite the same drainage line on the western side of Molkentin Road and one site (Jindera SD AFT 01 / AHIMS# 55-6-0255) was located in amongst the rocky outcrop overlooking the alluvial flats and elevated terraces associated with the east west tending first order drainage line paralleling Rock Road. With the exception of Jindera SD AFT 01 / AHIMS# 55-6-0255, all sites were identified in areas of increased visibility.



Plate 6-1: Overview of the Project Area looking north west towards alluvial flats, depicting low visibility and high grass. Photograph taken in Lot 121 DP753345



Plate 6-2: Example of improved visibility due to rabbit warrens and cattle tracks in Lot 121 DP753345.



Plate 6-3: Disturbed equestrian area in Lot 1 DP785168 in the northern portion of Project Area.



Plate 6-4: Eroded gully of the unnamed third order drainage line parallel to Molkentin Road in Lot 22 DP 635058, looking north.





### Jindera SD AFT 01

Jindera SD AFT 01 / AHIMS# 55-6-0255 consists of an artefact scatter in amongst a Jindera Granite outcrop overlooking the east west tending first order drainage line paralleling Rock Road and the alluvial flats and elevated terraces associated with the drainage line (Plate 6-13, Figure 6-1 and Figure 6-2). Seven quartz artefacts including one core, one flake, one distal fragment (Plate 6-14), two broken flakes and two flaked pieces were identified within this outcrop. Visibility was low at the time of survey, and it is thought that this site may extend further than was recorded at the time. Soils were a light brown silty sandy loam with angular gravels from the decomposing granite. Artefact details are listed in Appendix B.



Plate 6-13 View west from Jindera SD AFT 01 / AHIMS# 55-6-0255 overlooking the alluvial flats and terraces associated with the unnamed first order drainage line.

Plate 6-14 A quartz artefact from Jindera SD AFT 01 / AHIMS# 55-6-0255

### Jindera SD AFT 02

Jindera SD AFT 02 / AHIMS# 55-6-0256 comprised of a scatter of three quartz artefacts including one flaked tool, one flake and one flaked piece (Plate 6-16 and Appendix B). It was located on an elevated terrace overlooking the unnamed third order drainage line paralleling Molkentin Road (Plate 6-15 and Figure 6-1 and Figure 6-3) The area had been previously disturbed by the construction of an overhead powerline pole and through gully erosion. Soils were silty loam with a deep profile overlying a lighter yellow to reddish sandy clay. Two small quartz artefacts remain *in situ* in the banks of the unnamed drainage line (Plate 6-10).



### Jindera SD AFT 03

Jindera SD AFT 03 / AHIMS# 55-6-0257 consists of at least five quartz artefacts including a core, a flaked tool and three flakes (Plate 6-18 and Appendix B). The site is eroding out of the elevated terrace landform in which it is situated (Plate 6-17, Figure 6-1 and Figure 6-3). Multiple artefacts were also located in the vicinity that are likely to have washed down the gully into the bed of the unnamed third order drainage line. Soils were a silty loam with a deep profile overlying a lighter yellow to reddish silty sandy clay Visibility outside the eroded area was limited and it is believed that the site extends beyond what was observable on the day of survey.



Jindera SD AFT 04

Jindera SD AFT 04 / AHIMS# 55-6-0259 comprised three quartz artefacts on an elevated terrace on the north and south side of the unnamed third order drainage line paralleling Molkentin Road (Plate 6-19 and Figure 6-1 and Figure 6-4). Soils were orange-brown silty sandy loam with higher clay content. Artefact assemblage included one flake and two distal fragments (Plate 6-20 and Appendix B).



#### Jindera SD AFT 05

Jindera SD AFT 05 / AHIMS# 55-6-0258 consists of five quartz artefacts. Artefact typology includes one core two broken flakes and two flaked pieces (Plate 6-22 and Appendix B). The site was located at the gateway into Lot 5 DP260275 on the western side of Molkentin Road opposite the unnamed third order drainage line (Plate 6-21, Figure 6-1 and Figure 6-4). It is believed that the artefacts located at this site have been damaged due to vehicles accessing the property from the gate. Soils were a light brown silty loam.



Plate 6-21 View east towards unnamed third order drainage line paralleling Molkentin Road overlooking site Jindera SD AFT 05 / AHIMS# 55-6-0258 Plate 6-22 Quartz artefacts



Figure 6-1 Field results



Figure 6-2 Location of Jindera SD AFT 01 / AHIMS# 55-6-0255
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Figure 6-3 Locations of Jindera SF AFT 02 / AHIMS# 55-6-0256 and Jindera SF AFT 03 / AHIMS# 55-6-0257

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Figure 6-4 Locations of Jindera SF AFT 04 / AHIMS# 55-6-0259 and Jindera SF AFT 05 / AHIMS# 55-6-0258

#### 6.3 Summary

The site inspection confirmed archaeological potential identified in the background research and predictive model, with the recording of five new artefact scatter sites (Jindera SD AFT 01 / AHIMS# 55-6-0255, Jindera SD AFT 02 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0259 and Jindera SD AFT 05 / AHIMS# 55-6-0258) one of which (Jindera SD AFT 02 / AHIMS# 55-6-0256) contained *in situ* quartz artefacts. The artefacts likely relate to the use of the unnamed third order drainage line located parallel to Molkentin Road and the three associated first order tributaries to access water, food and raw materials for tools. The identification of these sites contributes to an understanding of the archaeological context of this region and the utilisation of raw materials in the manufacture and use of stone tools by local Aboriginal people of this region.

The Project Area contains archaeologically sensitive landforms within 200m of an unnamed third order drainage line located parallel to Molkentin Road and three associated first order tributaries. Portions of the Project Area contain moderate to high archaeological potential associated both with the sensitive landforms identified (alluvial flats, elevated terrace landforms, basal slopes) as well as with the identification of the five archaeological sites. Further, known recordings of subsurface artefact sites (ABP/NSW 5 / AHIMS ID# 55-6-0041 and ABP/NSW 6 / AHIMS# 55-6-0042) have occurred within 200m of the Project Area

While no Modified Trees (carved or scarred) were located by the targeted survey effort, the Project Area contains many mature Yellow Box and Blakeley's Red Gum tree species that may be archeologically sensitive (Plate 6-11 and Plate 6-12). Further investigation is required to determine the presence or absence and cultural value of mature trees in the Project Area. Visibility was the main limiting factor for site identification. Dense and high grass cover impeded ground surface visibility within a number of areas. The targeted survey approach limited the comprehensive inspection of all areas of archaeological potential defined by the desktop landscape analysis and predictive model.

It is important to note that historic land use and erosion within the majority of the Project Area has resulted in low to moderate ground disturbance through land clearing, installation of utilities, farm infrastructure and gully erosion. Due to the nature of the archaeological record in this area, this disturbance has likely exposed artefact scatters from *in-situ* deposits. While this disturbance will have moved artefacts, it is unlikely to have significantly compromised the overall character of the archaeological record of the area.

# 7. Further assessment

#### Step 5. Is further investigation or impact assessment required?

The Due Diligence Code states that if, after the desktop research and visual inspection is completed, it is evident that harm will occur to Aboriginal objects or heritage places then further and more detailed assessment is required. However, if the research and inspection conclude that the proposed activity is unlikely to harm Aboriginal objects then the activity can proceed with caution.

The field assessment concludes that the area does require further investigation and assessment prior to the completion of any physical works on the site. While the rezoning in itself is delimited to paper and will not have any impact on the Aboriginal Heritage sites identified in this assessment, any future development works following the rezoning may impact these and any currently unidentified sites within the Project Area.

It is possible that sites Jindera SD AFT 01 / AHIMS# 55-6-0255, Jindera SD AFT 02 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0259 and Jindera SD AFT 05 / AHIMS# 55-6-0258 may be avoided during any future developments. However, as a large portion of the Project Area has been deemed likely to contain Aboriginal objects or sites that may be harmed during future developments, an Aboriginal Cultural Heritage Assessment (ACHA) for the project, including Aboriginal community consultation would be required to ensure no Aboriginal objects or sites will be impacted.

To further inform future assessment, archaeological potential has been processed into a categorised sensitivity model map provided in Figure 7-1. The outcomes of this model have considered a range of factors that contribute to archaeological potential. These include survey results, landform analysis, consideration of predictive statements and levels of disturbance. Ratings are summarised in Table 7-1 below.

Table 7-1: Archaeological potentia	l classification definitions
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Category	Definition
Low (green)	Minimal archaeological potential identified due to previous disturbance. Least risk for constraints. Further assessment requires inclusion in future Aboriginal Cultural heritage Assessment in accordance with assessment recommendations.
Moderate (orange)	Moderate archaeological potential identified due to low disturbance and landscape potential for scarred trees and artefact sites. Areas requires Aboriginal Cultural heritage Assessment in accordance with assessment recommendations and comprehensive archaeological survey effort.
High (red)	High archaeological potential identified due to the presence of undisturbed landscape features and the presence of surface artefact scatters. Likely to contain valuable cultural sites and values. Future development will require Aboriginal Cultural Heritage Assessment in accordance with assessment recommendations, comprehensive archaeological survey effort and subsurface test excavation programme.

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Figure 7-1: Archaeological Sensitivity Modelling

# 8. Recommendations

The following recommendations are based on a number of considerations including:

- Background Aboriginal heritage research into the area;
- Assessment of Landscape;
- Land use and disturbance assessment;
- Targeted field inspection
- Consideration of the impact of the proposed works; and
- Legislative context for the development proposal.

Based on the desktop assessment of the Project Area, landscapes present, archaeological context and previous level of disturbance, future development within the Project Area will require a detailed Aboriginal heritage assessment. Recommendations for future assessment are as follows:

- The proposed rezoning for the Project Area may proceed, however any ground disturbance works associated with the future development of the flats, elevated flat landforms and basal slopes which were determined to be of moderate to high archaeological sensitivity (as demarked in red and orange in Figure 7-1) within the Project Area will require further heritage investigation and assessment. A limited programme of subsurface testing under the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* would be required to be undertaken. This would form part of an Aboriginal Cultural Heritage Assessment (ACHA) and include Aboriginal consultation in accordance with the Requirements.
- Should the previously recorded Aboriginal sites within the Project Area not be able to be avoided by any future development subsequent to the proposed rezoning of the area, an Aboriginal Heritage Impact Permit (AHIP) would be required to impact these sites. This would require undertaking an Aboriginal Cultural Heritage Assessment (ACHA).
- 3. Any future development works outside the areas of moderate and high archaeological sensitivity and the locations of the Aboriginal sites Jindera SD AFT 01 / AHIMS# 55-6-0255, Jindera SD AFT 02 / AHIMS# 55-6-0256, Jindera SD AFT 03 / AHIMS# 55-6-0257, Jindera SD AFT 04 / AHIMS# 55-6-0259 and Jindera SD AFT 05 / AHIMS# 55-6-0258 (as demarked in green in Figure 7-1) within the Project Area do not require further assessment and therefore the proposed rezoning and any future development works can proceed with caution in these areas.
- 4. Any activity proposed outside the current assessment area should also be subject to an Aboriginal heritage assessment

BioPlan reminded that it is an offence under the *NSW National Parks and Wildlife Act* 1974 to disturb, damage or destroy and Aboriginal object without a valid Aboriginal Heritage Impact Permit (AHIP).

# 9. References

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# Appendix A AHIMS search and site cards



**Extensive search - Site list report** 

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<b>Easting</b>	<u>Northing</u>		<u>Site Status **</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
55-6-0157	Jindera Solar IF 9	GDA	55	487601	6026201	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.M	latthew Barb	er,NGH Herita	ge - Fyshwick		Permit	<u>s</u>	
55-6-0155	Jindera Solar IF 7	GDA	55	488116	6026227	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.M	latthew Barb	er,NGH Herita	ge - Fyshwick		<u>Permit</u>	<u>s</u>	
55-6-0126	Jindera 488156 duplicate of 55-6-0125	GDA	55	488156	6027395	Open site	Valid	Artefact : -		
	<u>Contact</u>	<b>Recorders</b>	Mr.M	lark Saddler				<u>Permit</u>	<u>s</u>	
55-6-0116	Jindera 488995	GDA	55	488995	6025387	Open site	Valid	Modified Tree (Carved or Scarred) -	:	
	Contact	<u>Recorders</u>	Mr.M	lark Saddler				Permit	<u>s</u>	
55-6-0003	Jindera;	AGD	55	489701	6021192	Open site	Valid	Modified Tree (Carved or Scarred) -	Scarred Tree :	276,363
	<u>Contact</u>	<b>Recorders</b>	ASRS	SYS				<u>Permit</u>	<u>s</u>	
55-6-0107	Nexus AS5	GDA	55	497424	6016897	Open site	Destroyed	Artefact : 1		103840
	Contact	<u>Recorders</u>	Biosi	s Research (†	o be deleted),	Ms.Bridget Grinter		<u>Permit</u>	<u>s</u> 4118	
55-6-0108	Nexus AS6	GDA	55	497424	6017034	Open site	Destroyed	Artefact : 1		103840
	Contact	<b>Recorders</b>	Biosi	s Research (	o be deleted),	Ms.Bridget Grinter		<u>Permit</u>	<u>s</u> 4118	
55-6-0106	Nexus AS4	GDA	55	497726	6016789	Open site	Destroyed	Artefact : 1		103840
	Contact	<b>Recorders</b>	Biosi	s Research (†	o be deleted),	Ms.Bridget Grinter		Permit	<u>s</u> 4118	
55-6-0091	Sargent Rd 2	GDA	55	498377	6020714	Open site	Valid	Modified Tree (Carved or Scarred) -	:	
	Contact	<b>Recorders</b>	Offic	e of Environi	nent & Heritag	ge		<u>Permit</u>	<u>s</u>	
55-6-0067	mod tree 4	AGD		498375	6018203	Open site	Valid	Modified Tree (Carved or Scarred) -	:	
	Contact T Russell	<u>Recorders</u>	Mr.G	raham Moor	e			<u>Permit</u>	<u>s</u>	
55-6-0068	mod tree 5	AGD	55	498375	6021408	Open site	Valid	Modified Tree (Carved or Scarred) 1	:	
	<u>Contact</u> T Russell	<u>Recorders</u>		raham Moor	9			Permit	<u>s</u>	
60-3-0019	M12;	AGD	55	500050	6017630	Open site	Valid	Artefact : -	Open Camp Site	2350
	<u>Contact</u>	<b>Recorders</b>	Laura	a-Jane Smith				<u>Permit</u>	S	
60-3-0108	AL01 (Albury)	GDA		490588	6013318	Open site	Partially Destroyed	Artefact : 1		101228,10169 7
	Contact	Recorders		ominic Brady		2		Permit	<u>s</u> 3311,3312	
60-3-0092	Albury Wadonga Highway 4 and 5	AGD	55	498446	6013670	Open site	Valid	Artefact : -		
	Contact T Russell	<u>Recorders</u>	Park	lands - Albur	y Wodonga			Permit	S	

# Report generated by AHIMS Web Service on 21/02/2022 for Layne Holloway for the following area at Lat, Long From : -36.0265, 146.772 - Lat, Long To : -35.8875, 147.0192. Number of Aboriginal sites and Aboriginal objects found is 115



**Extensive search - Site list report** 

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	Zor	ne <u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status **</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
0-3-0079	AWH 10 PAD 8	AGD	5	55 498598	6014004	Open site	Valid	Artefact : 24		99657
	<u>Contact</u> Searle	Recorders	<u>s</u> N	Ir.Terence J. Ke	lly,Mr.Stephen	Pollock		<u>Permi</u>	<u>ts</u> 2334	
0-4-0002	BP4	AGD	5	55 500830	6024120	Open site	Partially Destroyed	Artefact : -	Open Camp Site	100575,10057 6
	<u>Contact</u>	Recorders	<u>s</u> U	Inknown Autho	r			<u>Permi</u>	<u>ts</u> 2755,2756	
5-6-0034	BP 1 (Howlong)	AGD	5	55 494400	6021520	Open site	Valid	Artefact : -	Open Camp Site	100576
	<u>Contact</u>	Recorders	<u>s</u> L	aura-Jane Smith	1			<u>Permi</u>	ts	
5-6-0098	Drumwoord Road Test Ex	GDA	5	55 490400	6021900	Open site	Valid	Artefact : 10		46,103621
	<u>Contact</u>	Recorders	<u>s</u> N	Ir.Oliver Brown				<u>Permi</u>	<u>ts</u> 3918	
5-6-0114	Jindera 487530	GDA	5	55 487529	6025742	Open site	Valid	Artefact : -		
	<u>Contact</u>	Recorders	<u>s</u> N	Ir.Matthew Bar	ber,Mr.Mark Sa	addler,NGH Heritage	e - Fyshwick	Permi	ts	
5-6-0156	Jindera Solar IF 8	GDA	5	55 487656	6025679	Open site	Valid	Artefact : -		
	<u>Contact</u>	Recorders	<u>s</u> N	Ir.Matthew Bar	ber,NGH Herita	age - Fyshwick		<u>Permi</u>	<u>ts</u>	
5-6-0123	Jindera 488004	GDA	5	55 488004	6026417	Open site	Valid	Artefact : -		
	<u>Contact</u>	Recorders	<u>s</u> N	Ir.Mark Saddler				Permi	ts	
5-6-0149	Jindera Solar IF 1	GDA	5	55 488031	6025567	Open site	Valid	Artefact : -		
	Contact	Recorders	<u>s</u> N	Ir.Matthew Bar	ber,NGH Herita	age - Fyshwick		Permi	ts	
5-6-0154	Jindera Solar IF 6	GDA	Ę	55 488225	6026223	Open site	Valid	Artefact : -		
	<u>Contact</u>	Recorders	<u>s</u> N	Ir.Matthew Bar	ber,NGH Herita	age - Fyshwick		<u>Permi</u>	ts	
5-6-0115	Jindera 488918	GDA	5	55 488918	6025967	Open site	Valid	Modified Tree (Carved or Scarred -	):	
	Contact	Recorders	<u>s</u> N	Ir.Mark Saddler				Permi	ts	
5-6-0064	mungabareena-mm1	GDA	5	55 497447	6017227	Open site	Valid	Modified Tree (Carved or Scarred 1	):	
								1		
	<u>Contact</u> Sarah Colley	Recorders	<u>s</u> B	iosis Pty Ltd - S	ydney,Mr.Micł	ael Mulvaney,Ms.M	eaghan Aitchison,M	Is.Meaghan A <u>Permi</u>	ts	
0-3-0054	<u>Contact</u> Sarah Colley Nine Mile Hill;Crown Land, South of Claremont;	<u>Recorders</u> AGD		iosis Pty Ltd - S 55 498300	5 5.		eaghan Aitchison,M Valid	-	Scarred Tree	
0-3-0054			5		6017700		<b>0</b>	Is.Meaghan A <u>Permi</u> Modified Tree	Scarred Tree ) :	
	Nine Mile Hill;Crown Land, South of Claremont;	AGD	5 S	55 498300	6017700		<b>0</b>	Is.Meaghan A <u>Permi</u> Modified Tree (Carved or Scarred -	Scarred Tree ) :	100576
	Nine Mile Hill;Crown Land, South of Claremont; Contact	AGD Recorders	5 5 5	55 498300 Ir.Michael Mulv	6017700 aney 6017300	Open site	Valid	Is.Meaghan A <u>Permi</u> Modified Tree (Carved or Scarred - <u>Permi</u>	Scarred Tree ) : ts Open Camp Site	100576
5-6-0037	Nine Mile Hill;Crown Land, South of Claremont; <u>Contact</u> BP 5 (Howlong)	AGD Recorders AGD	5 M 5 L	55 498300 Ir.Michael Mulv 55 485650	6017700 aney 6017300	Open site	Valid	Is.Meaghan A <u>Permi</u> Modified Tree (Carved or Scarred - <u>Permi</u> Artefact : -	Scarred Tree ) : ts Open Camp Site	100576
0-3-0054 5-6-0037 0-3-0063	Nine Mile Hill;Crown Land, South of Claremont; Contact BP 5 (Howlong) <u>Contact</u>	AGD Recorders AGD Recorders	<u>s</u> M <u>5</u> L	55 498300 Ir.Michael Mulv 55 485650 aura-Jane Smitl	6017700 vaney 6017300 1 6015510	Open site Open site	Valid Valid	Is.Meaghan A <u>Permi</u> Modified Tree (Carved or Scarred - <u>Permi</u> Artefact : - <u>Permi</u>	Scarred Tree ) : ts Open Camp Site ts	100576
5-6-0037	Nine Mile Hill;Crown Land, South of Claremont; Contact BP 5 (Howlong) Contact MOORANGURY 1	AGD Recorders AGD Recorders AGD	<u>s</u> M <u>5</u> L <u>5</u> J(	55 498300 1r.Michael Mulv 55 485650 aura-Jane Smitl 55 484980	6017700 vaney 6017300 1 6015510	Open site Open site	Valid Valid	Is.Meaghan A <u>Permi</u> Modified Tree (Carved or Scarred - <u>Permi</u> Artefact : - <u>Permi</u> Artefact : -	Scarred Tree ) : ts Open Camp Site ts	100576 103840

Report generated by AHIMS Web Service on 21/02/2022 for Layne Holloway for the following area at Lat, Long From : -36.0265, 146.772 - Lat, Long To : -35.8875, 147.0192. Number of Aboriginal sites and Aboriginal objects found is 115



**SiteName** 

**SiteID** 

### AHIMS Web Services (AWS)

Extensive search - Site list report

		Client	Service ID : 661141
Site Status **	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
Valid	Modified Tree	Scarred Tree	230

60-3-0007	One Tree Hill;Ettamogah Sanctuary;T/59;	AGD	55 498449	6014793	Open site	Valid	Modified Tree (Carved or Scarred) :	Scarred Tree	230
	Contact	<u>Recorders</u>	ASRSYS				- <u>Permits</u>		
56-4-0202	mod tree 7	AGD	55 500317	6019619	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	<u>Contact</u>	<b>Recorders</b>	Mr.Graham Moo	re			Permits		
60-3-0033	M15;	AGD	55 501100	6018950	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	2350
	<u>Contact</u>	<b>Recorders</b>	Laura-Jane Smit	h			Permits		
55-6-0009	Jindera;	AGD	55 494848	6018412	Open site	Valid	Artefact : -	Open Camp Site	54
	<u>Contact</u>	<b>Recorders</b>	ASRSYS				Permits		
55-6-0042	ABP/NSW 6	AGD	55 492800	6020120	Open site	Valid	Artefact : 1		
	<u>Contact</u>	<b>Recorders</b>	Joanne Bell				Permits		
55-6-0039	scholz 1	AGD	55 487380	6017400	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>	Joanne Bell				<u>Permits</u>		
55-6-0159	Jindera Solar IF 11	GDA	55 487659	6027137	Open site	Valid	Artefact : -		
	Contact	<u>Recorders</u>	Mr.Matthew Bar	·ber,NGH Herit	age - Fyshwick		<u>Permits</u>		
55-6-0158	Jindera Solar IF 10	GDA	55 487943	6026509	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Matthew Bar	ber,NGH Herit	age - Fyshwick		Permits		
55-6-0162	Jindera Solar AFT 1	GDA	55 487948	6026853	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Matthew Bar	ber,NGH Herit	age - Fyshwick		Permits		
55-6-0161	Jindera Solar AFT 3	GDA	55 488001	6025549	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Matthew Bar	ber,NGH Herit	age - Fyshwick		<u>Permits</u>		
55-6-0160	Jindera Solar AFT 2	GDA	55 488124	6025390	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Matthew Bar	ber,NGH Herit	age - Fyshwick		Permits		
55-6-0122	Jindera 488179	GDA	55 488149	6026428	Open site	Valid	Artefact : -		
	Contact	<b>Recorders</b>	Mr.Matthew Bar	ber,Mr.Mark S	addler,NGH Heritag	ge - Fyshwick	Permits		
55-6-0150	Jindera Solar IF 2	GDA	55 489344	6025566	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Matthew Bar	ber,NGH Herit	age - Fyshwick		Permits		
55-6-0066	mod tree 3	AGD	55 497824	6016639	Open site	Deleted	Modified Tree (Carved or Scarred) : 1		
	Contact T Russell	<b>Recorders</b>	Mr.Graham Moo	ore			Permits		
56-4-0203	ARTC 1	AGD	55 500059	6023978	Open site	Valid	Artefact : 1		100469

# Report generated by AHIMS Web Service on 21/02/2022 for Layne Holloway for the following area at Lat, Long From : -36.0265, 146.772 - Lat, Long To : -35.8875, 147.0192. Number of Aboriginal sites and Aboriginal objects found is 115

<u>Zone</u>

Easting

Northing Context

Datum



**Extensive search - Site list report** 

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<b>Easting</b>	<u>Northing</u>	<u>Context</u>	<u>Site Status **</u>	<b>SiteFeatures</b>	<u>SiteTypes</u>	<u>Reports</u>
	<u>Contact</u> Searle	Recorders	Biosi	is Pty Ltd - Sy	/dney			<u>Permits</u>	2691	
50-3-0160	ROCKWOOD-LANE-AS3	GDA	55	497537	6015586	Open site	Valid	Artefact : 1		
	Contact	<b>Recorders</b>	Biosi	is Pty Ltd - Al	lbury - Ashley	Edwards,Ms.Meagha	an Aitchison	Permits		
60-3-0008	One Tree Hill;Ettamogah Sanctuary;TS10;	AGD		498449	6014793	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	203,230
	Contact	<u>Recorders</u>						<u>Permits</u>		
50-3-0023	M4;	AGD	55	501500	6016390	Open site	Valid	Artefact : -	Open Camp Site	2350
	Contact	<u>Recorders</u>	Laur	a-Jane Smith				<u>Permits</u>		
50-3-0027	M8;	AGD	55	501600	6016700	Open site	Valid	Artefact : -	Open Camp Site	2350
	Contact	<u>Recorders</u>	Laur	a-Jane Smith				<u>Permits</u>		
55-6-0006	Jindera;	AGD	55	494358	6021606	Open site	Valid	Artefact : -	Open Camp Site	54
	<u>Contact</u>	<u>Recorders</u>	ASRS	SYS				<u>Permits</u>		
55-6-0036	BP 3 (Holwong)	AGD	55	495700	6022300	Open site	Valid	Artefact : -	Open Camp Site	100576
	Contact	<u>Recorders</u>	Laur	a-Jane Smith				Permits		
55-6-0069	mod tree 6	AGD	55	499176	6020291	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact T Russell	<b>Recorders</b>	<u> </u>	raham Moor	e			Permits		
55-6-0153	Jindera Solar IF 5	GDA	55	488565	6026351	Open site	Valid	Artefact : -		
	Contact	<u>Recorders</u>	Mr.M	latthew Barb	er,NGH Herita	age - Fyshwick		Permits		
55-6-0152	Jindera Solar IF 4	GDA	55	488592	6026169	Open site	Valid	Artefact : -		
	Contact	<b>Recorders</b>	Mr.M	latthew Barb	er,NGH Herita	ige - Fyshwick		Permits		
55-6-0142	Jindera Scarred Tree	GDA	55	489213	6020956	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	<b>Recorders</b>	Mr.K	yle Moffitt				Permits		
55-6-0073	Sargent Rd - mm7	GDA	55	498413	6020640	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact T Russell	Recorders		lichael Mulva	5			<u>Permits</u>		
51-1-0262	TH-IA1-16	GDA		501409	6013564	Open site	Partially Destroyed	Artefact : 1		
	<u>Contact</u>	Recorders				ge Street Sydney	17.1.1	<u>Permits</u>	4077	
50-3-0066	ABP/NSW 2	AGD		483520	6013310	Open site	Valid	Artefact : 16		
	Contact	Recorders	- ,	ne Bell				Permits		
60-3-0154	Nail Can Hill IF 1	GDA	55	488827	6014260	Open site	Valid	Artefact : -		
	Contact	<u>Recorders</u>				age - Fyshwick		Permits		
0-3-0164	NEXUS ISO 01	GDA	55	497735	6016016	Open site	Valid	Artefact : -		

# Report generated by AHIMS Web Service on 21/02/2022 for Layne Holloway for the following area at Lat, Long From : -36.0265, 146.772 - Lat, Long To : -35.8875, 147.0192. Number of Aboriginal sites and Aboriginal objects found is 115



**Extensive search - Site list report** 

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<b>Easting</b>	<u>Northing</u>	<u>Context</u>	Site Status **	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
	Contact	<u>Recorders</u>	Mr.M	latthew Bark	er,NGH Herita	ge - Fyshwick		<u>Permits</u>		
60-3-0010	One Tree Hill;TS5;	AGD	55	498165	6015795	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	230
	<u>Contact</u>	<u>Recorders</u>	ASRS	SYS				Permits		
60-3-0080	AWH 11 PAD 9	AGD	55	499036	6015329	Open site	Valid	Artefact : 23		99657
	<u>Contact</u> Searle	<u>Recorders</u>	Mr.T	'erence J. Kel	ly,Mr.Stephen	Pollock		<b>Permits</b>	2334	
60-3-0031	М13;	AGD	55	500550	6018110	Open site	Valid	Artefact : -, Modified Tree (Carved or Scarred) : -	Open Camp Site,Scarred Tree	2380
	<u>Contact</u>	<u>Recorders</u>		a-Jane Smith				<u>Permits</u>		
55-6-0007	Jindera;	AGD	55	494382	6019229	Open site	Valid	Artefact : -	Open Camp Site	54
	Contact	<u>Recorders</u>						<u>Permits</u>		
55-6-0035	BP 2 (Howlong)	AGD	55	495950	6022250	Open site	Valid	Artefact : -	Open Camp Site	100576
	<u>Contact</u>	<u>Recorders</u>		a-Jane Smith				Permits		
55-6-0065	MUNGABARINA-MM3	AGD	55	499181	6020291	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	<u>Contact</u> Sarah Colley	<u>Recorders</u>	Mr.S	tephen Mark	Free			<u>Permits</u>		
60-3-0029	M10;	AGD	55	499700	6016100	Open site	Valid	Artefact : -	Open Camp Site	2350
	Contact	<u>Recorders</u>	Laur	a-Jane Smith				Permits		
55-6-0151	Jindera Solar IF 3	GDA	55	491009	6025760	Open site	Valid	Artefact : -		
	Contact	<u>Recorders</u>			er,NGH Herita	ge - Fyshwick		<u>Permits</u>		
55-6-0041	ABP/NSW 5	AGD	55	492840	6020080	Open site	Valid	Artefact : 4		
	Contact	<u>Recorders</u>		ne Bell				<u>Permits</u>		
55-6-0004	Jindera;	AGD	55	492885	6022687	Open site	Valid	Artefact : -	Open Camp Site	54,276
	Contact	<u>Recorders</u>						<u>Permits</u>		
55-6-0109	Nexus AS7	GDA	55	497030	6017049	Open site	Destroyed	Artefact : 1		103840
	Contact	<u>Recorders</u>			to be deleted),	Ms.Bridget Grinter		<u>Permits</u>	4118	
60-3-0030	M11	AGD	55	499810	6017000	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	2350
	<u>Contact</u>	<u>Recorders</u>	Laur	a-Jane Smith				<u>Permits</u>		
55-6-0040	Ryan 1	AGD	55	499830	6023840	Open site	Valid	Artefact : -		
	Contact	<b>Recorders</b>	Joan	ne Bell				Permits	1417	
60-3-0156	Hamilton Valley Artefact 2	GDA	55	489969	6013991	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>		-	hison,Jacobs G	roup (Australia) Pty	Ltd - Wangaratta	<u>Permits</u>		
60-3-0166	Urana Road AS 1	GDA	55	491628	6013846	Open site	Valid	Artefact : -		
	<u>Contact</u>	<b>Recorders</b>	Bios	is Pty Ltd - W	ollongong,Mrs	.Samantha Keats		Permits		

Report generated by AHIMS Web Service on 21/02/2022 for Layne Holloway for the following area at Lat, Long From : -36.0265, 146.772 - Lat, Long To : -35.8875, 147.0192. Number of Aboriginal sites and Aboriginal objects found is 115



**Extensive search - Site list report** 

<u>iteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<b>Easting</b>	<u>Northing</u>	<u>Context</u>	Site Status **	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
0-3-0146	Andersons Clay Mine IF1	GDA	55	495249	6013801	Open site	Valid	Artefact : -		
	<u>Contact</u>	<b>Recorders</b>	Mr.M	atthew Barb	er,NGH Herita	ge - Fyshwick		Permits		
0-3-0159	ROCKWOOD-LANE-AS2	GDA	55	497625	6015766	Open site	Valid	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>	Biosis	s Pty Ltd - Al	bury - Ashley	Edwards,Ms.Meagha	n Aitchison	Permits		
0-3-0009	One Tree Hill;TS6;	AGD	55	498082	6014972	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	203,230
	<u>Contact</u>	<b>Recorders</b>	ASRS	YS				Permits		
6-4-0230	TT 5 (Table Top Creek - Hume Hwy)	AGD	55	500250	6024262	Open site	Valid	Artefact : 20		100575
	Contact T Russell	<u>Recorders</u>	Matth	new Kelleher	,Kelleher Nigh	tingale Consulting F	ty Ltd	Permits		
6-4-0231	TT 6 (Table Top Creek - Hume Hwy)	AGD	55	500710	6024300	Open site	Valid	Artefact : 4		100575
	Contact T Russell	<u>Recorders</u>	Mattl	new Kelleher	,Kelleher Nigh	tingale Consulting F	ty Ltd	Permits		
5-6-0112	Glenellen SF Survey Unit 2/Locale 3	GDA	55	491203	6023961	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Docto	or.Julie Dibde	en,NSW Archa	eology Pty Ltd		Permits		
5-6-0129	Jindera 487613	GDA	55	487613	6026809	Open site	Valid	Artefact : -		
	<u>Contact</u>	<b>Recorders</b>	Mr.M	ark Saddler				Permits		
5-6-0121	Jindera 488172	GDA	55	488140	6026065	Open site	Valid	Artefact : -		
	Contact	<b>Recorders</b>	Mr.M	atthew Barb	er,Mr.Mark Sa	ddler,NGH Heritage	- Fyshwick	Permits		
5-6-0117	Jindera 488942	GDA	55	488942	6025519	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.M	atthew Barb	er,Mr.Mark Sa	ddler,NGH Heritage	- Fyshwick	Permits		
5-6-0103	Nexus AS1	GDA	55	497178	6016606	Open site	Destroyed	Artefact : 1		103840
	<u>Contact</u>	<u>Recorders</u>	Biosi	s Research (1	to be deleted),	Ms.Ashley Edwards		Permits	4118	
5-6-0104	Nexus AS2	GDA	55	497470	6016626	Open site	Destroyed	Artefact : 1		103840
	<u>Contact</u>	<b>Recorders</b>	Biosi	s Research (1	to be deleted),	Ms.Ashley Edwards		Permits	4118	
0-3-0021	M2;	AGD	55	501520	6015840	Open site	Valid	Artefact : -	Open Camp Site	2350
	<u>Contact</u>	<u>Recorders</u>	Laura	a-Jane Smith				Permits		
0-3-0158	ROCKWOOD-LANE-AS1	GDA	55	497775	6015830	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u>	<u>Recorders</u>	Biosi	s Pty Ltd - Al	bury - Ashley	Edwards,Ms.Meagha	n Aitchison	<u>Permits</u>		
0-3-0077	AWH 8 PAD 6	AGD	55	498375	6013678	Open site	Valid	Artefact : 15		
	<u>Contact</u> Searle	<u>Recorders</u>	Mr.Te	erence J. Kell	y,Mr.Stephen	Pollock		Permits	2334	
5-6-0005	Jindera;	AGD	55	493809	6021691	Open site	Valid	Artefact : -	Open Camp Site	54
	<u>Contact</u>	<u>Recorders</u>	ASRS	YS				<u>Permits</u>		
0-3-0005	One Tree Hill;TS7;	AGD	55	498711	6015983	Open site	Valid	Artefact : -	Open Camp Site	230
	<u>Contact</u>	<u>Recorders</u>	ASRS	YS				Permits		
5-6-0118	Jindera 487666	GDA	55	487566	6025996	Open site	Valid	Artefact : -		

# Report generated by AHIMS Web Service on 21/02/2022 for Layne Holloway for the following area at Lat, Long From : -36.0265, 146.772 - Lat, Long To : -35.8875, 147.0192. Number of Aboriginal sites and Aboriginal objects found is 115



**Extensive search - Site list report** 

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<b>Easting</b>	<u>Northing</u>		<u>Site Status **</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
	<u>Contact</u>	<u>Recorders</u>	Mr.M	atthew Barbo	er,Mr.Mark Sa	ddler,NGH Heritage -	Fyshwick	<u>Permits</u>		
55-6-0119	Jindera 487828	GDA	55	487828	6025972	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.M	ark Saddler				Permits		
55-6-0242	Ettamogah Rock Shelters	GDA	55	498531	6018323	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Ms.As	shley Edward	ls,Ms.Ashley E	dwards,Biosis Pty Lto	d - Albury - Ashley	Edwards,Bi <u>Permits</u>		
60-3-0057	BP6	AGD	55	483300	6013150	Open site	Valid	Artefact : -	Open Camp Site	100576
	<u>Contact</u>	<u>Recorders</u>	James	s Leslie Smith	1			Permits		
60-3-0067	ABP/NSW 3	AGD	55	483530	6013400	Open site	Valid	Artefact : 15		
	Contact	<b>Recorders</b>	Joann	e Bell				<b>Permits</b>		
60-3-0157	Hamilton Valley Artefact 1	GDA	55	490164	6013854	Open site	Valid	Artefact : -		
	Contact	<u>Recorders</u>	Ms.M	eaghan Aitch	ison,Jacobs Gi	oup (Australia) Pty L	td - Wangaratta	<u>Permits</u>		
60-3-0113	AL01 (duplicate of 60-3-0108)	GDA	55	490588	6013318	Open site	Valid	Artefact : 1		101228
	Contact	<b>Recorders</b>	Biosis	s Pty Ltd - Sy	dney,Mr.Domi	nic Brady		Permits		
50-3-0011	One Tree Hill;TS4;	AGD	55	494078	6013285	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	230
	Contact	<u>Recorders</u>	ASRS	YS				Permits		
60-3-0006	One Tree Hill;Ettamogah Sanctuary;T/58;	AGD	55	498449	6014793	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	230
	<u>Contact</u>	<b>Recorders</b>	ASRS	YS				Permits		
60-3-0093	Mitchell Park Scar Tree1	AGD	55	498521	6013801	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact T Russell	<b>Recorders</b>	Parkl	ands - Albury	y Wodonga			Permits		
60-3-0032	M14;	AGD			6018130	Open site	Valid	Modified Tree (Carved or Scarred) :	Scarred Tree	2350
	Contact	Recorders		-Jane Smith	(04(450	o	** 1-1	Permits	0 ) m	2250
60-3-0028	М9;	AGD	55	499460	6016170	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	2350
	<u>Contact</u>	<u>Recorders</u>		-Jane Smith				<u>Permits</u>		
55-6-0113	Glenellen SF Survey Unit 2/Locale 2	GDA	55	491171	6023918	Open site	Valid	Artefact : -		
	Contact	<u>Recorders</u>				eology Pty Ltd		<u>Permits</u>		
	Glenellen SF Survey Unit 2/Locale 1	GDA	55	491191	6023855	Open site	Valid	Artefact : -		
55-6-0111	Genenen Sr Survey Onit 2/Locale 1									
55-6-0111	Contact	<u>Recorders</u>	Docto	or.Julie Dibde	n,NSW Archae	eology Pty Ltd		Permits		

### Report generated by AHIMS Web Service on 21/02/2022 for Layne Holloway for the following area at Lat, Long From : -36.0265, 146.772 - Lat, Long To : -35.8875, 147.0192. Number of Aboriginal sites and Aboriginal objects found is 115



**Extensive search - Site list report** 

GOVERNMEN		-									
<u>SiteID</u>	SiteName	<u>Datum</u>	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status **</u>	<u>SiteFeatu</u>	res	<u>SiteTypes</u>	<u>Reports</u>
	<u>Contact</u>	<u>Recorders</u>	Mr.I	Mark Saddler					<u>Permits</u>		
55-6-0120	Jindera 487973	GDA	55	488040	6025952	Open site	Valid	Artefact : -			
	Contact	<u>Recorders</u>	Mr.I	Matthew Barb	er,Mr.Mark Sa	ddler,NGH Heritage	- Fyshwick		<u>Permits</u>		
55-6-0125	Jindera 488212 duplicate of 55-6-0126	GDA	55	488150	6027345	Open site	Valid	Artefact : -			
	<u>Contact</u>	<b>Recorders</b>	Mr.I	Matthew Barb	er,Mr.Matthev	v Barber,Mr.Mark Sa	ddler,NGH Heritag	ge - Fyshwick	<u>Permits</u>		
55-6-0105	Nexus AS3	GDA	55	497753	6016671	Open site	Destroyed	Artefact : 2	1		103840
	Contact	<u>Recorders</u>	Bios	sis Research (	to be deleted),	Ms.Ashley Edwards			<u>Permits</u>	4118	
55-6-0043	ABP/NSW 4	AGD	55	485430	6016910	Open site	Valid	Artefact : 1	14		
	<u>Contact</u>	<b>Recorders</b>	Joar	nne Bell					Permits		
60-3-0078	AWH 9 PAD 7	AGD	55	498476	6013866	Closed site	Valid	Artefact : 2	26		
	<u>Contact</u> Searle	<u>Recorders</u>	Mr.	Terence J. Kell	ly,Mr.Stephen	Pollock			Permits	2334	
60-3-0070	AWH 1 PAD 10	GDA	55	499260	6016050	Open site	Valid	Artefact : S	5		99657
	<u>Contact</u> Colin Clark	<b>Recorders</b>	Mr.	Terence J. Kell	ly				Permits	2246,2334	
56-4-0211	TT 1 (Table Top Creek - Hume Hwy)	AGD	55	500378	6020656	Open site	Valid	Artefact : 2	2		100575
	Contact T Russell	<u>Recorders</u>	Kell	leher Nighting	ale Consulting	g Pty Ltd,Mr.Michael J	Jackson		Permits		
60-3-0020	M1;	AGD	55	500600	6016320	Open site	Valid	Modified 7	Tree	Scarred Tree	2350
								(Carved or	Scarred) :		
	Contact	Decordore	Lau	ra-Jane Smith				-	Dormite		
60-3-0024	M5:	Recorders AGD		501600		Open site	Valid	Artefact : -	<u>Permits</u>	Open Camp Site	2350
00-3-0024						open site	vanu	Ai telact		open camp site	2330
	Contact	Recorders		ra-Jane Smith		<u> </u>	** 1. 1		<u>Permits</u>	0 0 0	
55-6-0008	Jindera;	AGD	55	494382	6019229	Open site	Valid	Artefact : -		Open Camp Site	54
	<u>Contact</u>	<u>Recorders</u>	ASR	RSYS					<u>Permits</u>		

\*\* Site Status

 $\ensuremath{\textbf{Valid}}$  - The site has been recorded and accepted onto the system as valid

Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution. Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

### Report generated by AHIMS Web Service on 21/02/2022 for Layne Holloway for the following area at Lat, Long From : -36.0265, 146.772 - Lat, Long To : -35.8875, 147.0192. Number of Aboriginal sites and Aboriginal objects found is 115



# Aboriginal Site Recording Form

AHIMS Registrar PO Box 1967, Hurstville 2220 NSW

AHIMS site I	55-6-0255		Date recorded: 31-03-2022
Site Locatior	Information Jindera SD AFT 01		
Easting: 4	94231 Northi	ng: 6019581	Coordinates must be in GDA (MGA)
Horizontal Ac	ccuracy (m): 5		
<b>Zone:</b> 55	Location meth	od: Non-Differential	GPS
Recorder Info (The person responsib	Drmation le for the completion and submission of thi	s form)	
Title	Surname	[	First name
Mr. Barbe		Matthew	,
Organisation:	75		
Address:	Po Box 62 Fyshwick ACT 2609		
<b>Phone:</b> 04074	85018 E-mail: matth	ew.b@nghenvironmenta	Il.com.au
Site Context	Information		
Land Form Pattern:	Steep Hills	Land Use:	Farming Low Intensity
Land Form Unit:	Slope	Vegetation:	Isolated clumps of trees
Distance to Water (m):	60 Primary Aborigir	nal Heritage DD Assessr	nent Jindera Residential Rezoning
How to get to the site:	On private property to the north c	f Rock Road, Jindera	
Other site information:	Site is scattered in amongst a roo the time of visit. It is expected tha was observed on the day.		

w		Ν		NE
	Tritter from the second			
	Faed User Course (Strahler Ordering)	Alter L Ho Date index paciety 0	2 Jones Margan 200220001 1 Lance altern of default and the second se	_
			NGH	
W	S			SE
e contents info	prmation open/close	ed site: Open	Site condition:	Good
			Scarred Tree	S
atures:	Numl featu	ber of res Extent (m) extent (m)	e (s) (cm) (cm) Scar	shape Tree Spe
Artefact	7	28 25		
scription:	I [			
uartz artefact scatter in a G	anite outcrop overlooking the drainage line p	paralleling Rock Road. Artefac	cts include 1 Distal	
agment, 1 flake, 2 broken f	akes, 1 core and 2 flaked pieces. All artefact	s were of good quality crystall	line quartz.	
			Scarred Tree	S
atures:	Numl featu	ber of Length of Width of reature	of Scar Depth Regrowth Scar	shape Tree Spe
		extent (m) extent	(m) ` ´ ´ ` ` ´ ´	
·				

				Scarred Trees
Features:		Number of features feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm) Scar shape Tree Species
3.				
Description:				
				Scarred Trees
Features:		Number of features feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm) Scar shape Tree Species
4.				
Description:				
				Scarred Trees
Features:		Number of features feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm) Scar shape Tree Species
5.				
Description:				
Other Site Info:	Site is scattered in amongst a rock outcrop. Vis larger than what was observed on the day.	sibility was poor at the time of	of visit. It is expe	cted that the site is

# Site plan



#### Site photographs



### Further information contact

Title	Surname	First name
Organisa	tion:	
Address:		
Phone:	E-mail:	



# Aboriginal Site Recording Form

AHIMS Registrar PO Box 1967, Hurstville 2220 NSW

AHIMS site I	55-6-0256			Date recorded:	31-03-2022		
Site Location							
Easting: 4	93336	Northing:	6019231	Coordinates must b	e in GDA (MGA)		
Horizontal Ac	curacy (m): 5						
<b>Zone:</b> 55	Loca	tion method:	Non-Differential	GPS			
Recorder Information (The person responsible for the completion and submission of this form)							
Title	Surname			First name			
Mr. Barbe			Matthew	V			
Organisation:	75 Po Box 62 Fyshwick A	CT 2609					
	85018 E-mai		nghenvironment	al.com.au			
Site Context	Information						
Land Form Pattern:	Plain		Land Use:	Farming Low Intensity			
Land Form Unit:	Terrace		Vegetation:	Isolated clumps of trees			
Distance to Water (m):	0 Primary Report:	NGH Aborigin	nal Heritage DD Ji	ndera Residential Rezoning	g		
How to get to the site:	On private property to	the east of Molke	entin Road, Jinde	ra			
Other site information:	Multiple artefacts erod landform. It is expecte observed on the day.	-					

W		N		NE
	C-1782 Jinder a Rezoning Aborigand C Curver 19300 Curver 193000 Curver 19300 Curver 193000 Curver 193000 Cu	0.043120		
	Water Course (Strahler Ontering)	AND LAND		-
w	=;	and the	NGH	SE
		S		
e contents info	rmation			
contents into	rmation ope	n/closed site: Open		Good
atures:		Number of Length of Width features extent (m) extent	e (s) (cm) (cm) Scars	shape Tree Sp
Artefact		3 41 13		
scription:				
uartz artefact scatter along the olkentin Rd. Multiple artefac ke and 1 flaked piece.	e unnamed drainage and an elev s, including 2 in situ in the creek !	rated terrace overlooking the unnamed obed. Artefacts were all quartz and include	drainage line paralleling ded 1 flaked tool, 1	
			Scarred Trees	;
		Number of Length of Width		shape Tree Sp
atures:		features feature(s) feature extent (m) extent	e (s) (cm) (cm) Scars	
atures:		features feature(s) feature	e (s) (cm) (cm) Scars	

					Scarred Tre	ees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth Sc (cm) (cm)	ar shape Tree Species
3.						
Description:						
					Scarred Tre	ees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm) Sc	ar shape Tree Species
4.						
Description:						
					Scarred Tre	ees
Features:		Number of features		Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm) Sca	ar shape Tree Species
5.						
Description:						
Other Site	fultiple artefacts eroding out of the creek bed a nan what was observed on the day.	and within the	terrace landfo	rm. It is expecte	d that the site is larger	

# Site plan



### Site photographs



### Further information contact

Title	Surname	First name
Organisa	ation:	
Address		
Phone:	E-mail:	



# Aboriginal Site Recording Form

AHIMS Registrar PO Box 1967, Hurstville 2220 NSW

AHIMS site ID	55-6-0257			Date recorded:	31-03-2022
Site Location	Information Jindera SD AFT 03				
Easting: 4	93395	Northing: 6	019233	Coordinates must be i	n GDA (MGA)
Horizontal Ac	curacy (m): 5				
<b>Zone:</b> 55	Locati	on method:	Non-Differential	GPS	
Recorder Information (The person responsible for the completion and submission of this form)					
Title	Surname			First name	
Mr. Barbe	r		Matthew	V	
Organisation:	75				
Address:	Po Box 62 Fyshwick AC	T 2609			
<b>Phone:</b> 04074	85018 <b>E-mail:</b>	matthew.b@	nghenvironment	al.com.au	
Site Context	Information				
Land Form Pattern:	Plain		Land Use:	Farming Low Intensity	
Land Form Unit:	Terrace		Vegetation:	Isolated clumps of trees	
Distance to Water (m):	0 Primary Report:	Aboriginal Heri	itage DD Assess	ment Jindera Residential Rez	oning
How to get to the site:	On private property to th	e east of Molke	ntin Road, Jinde	ra	
Other site information:	Multiple artefacts eroding landform. It is expected to observed on the day as	hat the site is m	nuch larger than	what was	

w		N	NE
w	Control of Project Area		
	Water Course (Strahler Onlering)	NGH	
w		s	SE
		5	
e contents i	nformation		
e contents i	mormation	open/closed site: Open Site	condition: Good
			Scarred Trees
atures:		Number of featuresLength of feature(s)Width of feature (s)Scar Dept (cm)featuresfeature(s) extent (m)extent (m)feature (s) (cm)	th Regrowth (cm) Scar shape Tree Spe
Artefact		5 9 5	
scription:			
uartz artefact scatter a	long the unnamed drainage and ar	n elevated terrace overlooking the unnamed drainage line paralle	ling
olkentin Rd. Multiple a evated terrace landforr	rtefacts included 1 flaked tool, 1 con.	ore and 3 flakes. Artefacts were eroding out of the creek bed and	the
- <b>1</b>		Longth of Width of	Scarred Trees
atures:		Number of featuresLength of feature(s)Width of feature (s)Scar Depi (cm)vextent (m)extent (m)extent (m)	th Regrowth Scar shape Tree Spe (cm)
<b></b>			
scription:			

					Scarred	Trees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm)	Scar shape Tree Species
3.						
Description:						
					Scarred	Trees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm)	Scar shape Tree Species
4.						
Description:						
					Scarred	Trees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm)	Scar shape Tree Species
5.						
Description:						
Other Site	Iltiple artefacts eroding out of the creek bed a ger than what was observed on the day as vi	nd within the sibility outside	terrace landfo the eroding a	rm. It is expecte rea was poor.	d that the site is much	

# Site plan



### Site photographs

Description:	Description: View east
bescription:	Description:
Site restrictions Do you want to Restrict this site?: Why is this site restricted?:	Gender General Location

### Further information contact

Title	Surname	First name
Organisa	ation:	
Address	:	
Phone:	E-mail:	



# Aboriginal Site Recording Form

AHIMS Registrar PO Box 1967, Hurstville 2220 NSW

AHIMS site I	55-6-0258			Date recorded:	31-03-2022		
Site name: Jindera SD AFT 05							
Easting: 4	92862	Northing:	6019763	Coordinates must b	e in GDA (MGA)		
Horizontal A	ccuracy (m): 5						
<b>Zone:</b> 55	Loca	tion method:	Non-Differential	GPS			
Recorder Info (The person responsib	Drmation le for the completion and sub	mission of this form)					
Title	Surname			First name			
Mr. Barbe			Matthew	V			
Organisation:	75 Po Box 62 Fyshwick A	CT 2609					
Address:		012003					
Phone: 04074	185018 <b>E-mai</b>	I: matthew.b@	nghenvironment	al.com.au			
Site Context	Information						
Land Form Pattern:	Plain		Land Use:	Farming Low Intensity			
Land Form Unit:	Terrace		Vegetation:	Isolated clumps of trees			
Distance to Water (m):	0 Primary Report:	NGH Aborigin	al Heritage DD Ji	ndera Residential Rezoning	g		
How to get to the site:	On private property to	the east of Molke	entin Road, Jinde	ra			
to the site.							
		- 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12					
Other site	It is expected that the the day as visibility our	•					
information:	believed that the artefa			damaged due			
	to vehicles accessing	he property from	i the gate.				

Image: Sector	Image: Sector					N						=
Image: Second contents information       Second contents information <td>Image: Second state of the second s</td> <td>w</td> <td>21-78: Local</td> <td>Purpose and the second se</td> <td></td> <td></td> <td>en recessioner de la constante de la constante</td> <td></td> <td></td> <td></td> <td>N</td> <td></td>	Image: Second state of the second s	w	21-78: Local	Purpose and the second se			en recessioner de la constante				N	
S     S       e contents information     open/closed site:     Open     Site condition:     God       eatures:     Number of feature(s) feature(s) extent (m) extent (m)     Scar Depth Regrowth Scar shape Tree sternt (m) extent (m)     Scar shape Tree sternt (m)       Artefact     5     5     6     6     6       scription:     Scarted Trees     Scarted Trees       watures:     Number of feature(s) feature(s)     6     6       Scription:     Scarted Trees       water arefacts scatter at the gate on the west side of Molkentin Rd opposite the unnamed drainage and an elevated terrace aralleling the Rd. Multiple artefacts included 1 core 2 broken flakes and 2 flaked pieces. Artefacts were located in the exposed it rear the gate.	S     SE       e contents information     open/closed site:     Open     Site condition:     Good       eatures:     Number of feature(s) extent (m) extent (m)     Scar Depth Regrowth Scar shape Tree S       Artefact     5     6     6     6       scription:     Scarred Trees       under of the atter (m) extent (m)     Scar bepth Regrowth Scar shape Tree S       scription:     Solution     Scarred Trees       Statures:     Number of Length of Molkentin Rd opposite the unnamed drainage and an elevated terrace aratefacts scatter at the gate on the west side of Molkentin Rd opposite the unnamed drainage and an elevated terrace aratefacts included 1 core 2 broken flakes and 2 flaked pieces. Artefacts were located in the exposed it it near the gate.		Water O	ourse (Strahler Ontering)		-	A CONSTRUCTION				_	
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					Scarrec	d Trees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm)	Scar shape Tree Species
3 Description:						
					Scarrec	d Trees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm)	Scar shape Tree Species
4.						
Description:						
					Scarred	Trees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm)	Scar shape Tree Species
5.						
Description:						
Other Site Info:	It is expected that the site is much larger than w was poor. It is believed that the artefacts locate property from the gate.					

# Site plan



#### Site photographs



### Further information contact

Title	Surname	First name
Organisa	tion:	
Address:		
Phone:	E-mail:	



# Aboriginal Site Recording Form

AHIMS Registrar PO Box 1967, Hurstville 2220 NSW

AHIMS site ID	55-6-0259			Date recorded:	31-03-2022		
Site Location Information Site name: Jindera SD AFT 04							
Easting: 4	93037	Northing: 6	6019737	Coordinates must be in	GDA (MGA)		
Horizontal Ac	curacy (m): 5						
<b>Zone:</b> 55	Locati	on method:	Non-Differential	GPS			
Recorder Info (The person responsible	ormation le for the completion and submi	ssion of this form)					
Title	Surname			First name			
Mr. Barbe			Matthev	V			
Organisation:	75 Po Box 62 Fyshwick AC	T 2609					
Phone: 04074	85018 <b>E-mail</b> :	matthew.b@	nghenvironment	al.com.au			
Site Context	Information		_				
Land Form Pattern:	Plain		Land Use:	Farming Low Intensity			
Land Form Unit:	Terrace		Vegetation:	Isolated clumps of trees			
Distance to Water (m):	0 Primary Report:	Aboriginal Her	ritage DD Assess	ment Jindera Residential Rezon	ing		
How to get to the site:	On private property to th	e east of Molke	entin Road, Jinder	ra			
Other site information:	Multiple artefacts erodin landform. It is expected observed on the day as	that the site is r	much larger than	what was			

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	Carbon de la companya	0 <b>10</b> 000 00	7	N L L
	Water Course (Strahler Ontwing)			
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Artefact		3 16 10		
scription:			, L L	
	a the uppermed drainage and an elev	vated terrace overlooking the unnam		
olkentin Rd. Multiple artef evated terrace landform.	acts included 1 flake and 2 distal fra	agments. Artefacts were eroding out	of the creek bed and the	
atures:		Number of Length of Wic		carred Trees
aluies.		features feature(s) feat	ture (s) (cm) (cm) ent (m)	owth Scar shape Tree Spe
				1 1 11
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					Scarred	Trees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm)	Scar shape Tree Species
3.						
Description:						
					Scarred	Trees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm)	Scar shape Tree Species
4.						
Description:						
					Scarred	Trees
Features:		Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)	Scar Depth Regrowth (cm) (cm)	Scar shape Tree Species
5.						
Description:						
Other Site	Iltiple artefacts eroding out of the creek bed a ger than what was observed on the day as vi	nd within the sibility outside	terrace landfo the eroding a	rm. It is expecte rea was poor.	d that the site is much	

# Site plan



#### Site photographs



### Further information contact

Title	Surname	First name
Organisa	ation:	
Address	:	
Phone:	E-mail:	

# Appendix B Artefact analysis

Site name	Туре	Raw Material	Colour	Size Class
Jindera SF AFT	Distal Fragment	Quartz	White clear	<30mm
01	Flake	Quartz	White	<40mm
	Broken Flake	Quartz	White clear	<20mm
	Flaked Piece	Quartz	White	<20mm
	Core	Quartz	White	<50mm
	Flaked Piece	Quartz	Clear crystal quartz	<30mm
	Broken Flake	Quartz	White with orange inclusions	<40mm
Jindera SF AFT	Flake tool	Quartz	Crystal white	<40mm
02	Flaked Piece	Quartz	White	<20mm
	Flake	Quartz	White	<30mm
Jindera SF AFT	Flake	Quartz	White	<50mm
03	Core	Quartz	White	<40mm
	Flake	Quartz	White	<30mm
	Flake	Quartz	White	<20mm
	Flake tool	Quartz	White	<30mm
Jindera SF AFT	Flake	Quartz	White	<30mm
04	Distal Fragment	Quartz	White	<30mm
	Distal Fragment	Quartz	White	<30mm
Jindera SF AFT	Broken Flake	Quartz	White	<20mm
05	Flaked Piece	Quartz	White crystal	<30mm
	Broken Flake	Quartz	White crystal	<30mm
	Flaked Piece	Quartz	White	<20mm
	Flaked Piece	Quartz	White	<40mm

Artefacts located during the site inspection